Former ACME Steel Partition Company

KINGS COUNTY
BROOKLYN, NEW YORK

SITE MANAGEMENT PLAN

NYSDEC Site Number: 224192

Prepared for:

New York State Department of Transportation
47-40 21st Street
Long Island City, NY 11101

Prepared by:

TRC Engineers, Inc.
1430 Broadway, 10th Floor
New York, NY
(212) 221-7822

Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date

FEBRUARY 2022

CERTIFICATION STATEMENT

I James Peronto certify that I am currently a NYS registered professional engineer as in defined in 6 NYCRR Part 375 and that this Site Management Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

	02/15/2022	
NYS Professional Engineer #83861	Date	Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

Table of Contents

List of Acronyms 5
0. Executive Summary 6
1. Introduction 7
1.1. General 7
1.2. Revisions 7
1.3. Notifications 8
2. Summary of Previous Investigations and Remedial Actions 9
2.1. Site Location and Description 9
2.2. Physical Setting 9
2.2.1. Land Use 9
2.2.2. Geology 9
2.2.3. Hydrogeology 10
2.3. Investigation and Remedial History 10
2.3.1. Supplemental Site Investigation – May-June 2014 11
2.3.2. Groundwater Compound Specific Isotope Analysis – May-August 2014 12
2.3.3. Lead Contaminated Hot-Spot Removals – February 2015 13
2.3.4. Reconstruction Site Regrading/Soil Removal and Gravel Cover 13
2.4. Remedial Action Objectives 13
2.5. Remaining Contamination 13
2.5.1. Soil 14
2.5.2. Groundwater 15
2.5.3. Soil Vapor 16
3. Institutional and Engineering Control plan 17
3.1. General 17
3.2. Institutional Controls 17
3.3. Engineering Controls 18
3.3.1. Cover 18
3.3.2. Criteria for Completion of Remediation/Termination of Remedial Systems 18
4. Monitoring Plan 20
4.1. General 20
4.2. Site–wide Inspection 20
5. Operation and Maintenance Plan 21
5.1. General 21
6. Periodic Assessments 22
6.1. Climate Change Vulnerability Assessment 22
7. Reporting Requirements 23
7.1. Site Management Reports 23
7.2. Periodic Review Report 23
7.2.1. Certification of Institutional and Engineering Controls 24
7.3. Corrective Measures Work Plan 25
8. References 26

Table of Contents (Continued)

Tables

1 Site Emergency & Notifications Contact Information
2 Schedule of Inspections and Reports

Figures

1 Site Location Map
2 Original Site Layout Map
3 Parcel Identification Plan
4 Site Aerial Photograph

Appendices

APPENDIX A - PROPERTY DOCUMENTATION
APPENDIX B - ENVIRONMENTAL NOTICE
APPENDIX C - SITE INVESTIGATION REPORT DOCUMENTATION
APPENDIX D - EXCAVATION WORK PLAN (EWP)
APPENDIX E - AS-BUILT DRAWINGS
APPENDIX F - COMMUNITY AIR MONITORING PLAN
APPENDIX G - SITE MANAGEMENT FORMS

List of Acronyms

ASP	Analytical Services Protocol
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
BGS	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CAMP	Community Air Monitoring Plan
C/D	Construction and Demolition
CFR	Code of Federal Regulation
CLP	Contract Laboratory Program
COC	Certificate of Completion
CP	Commissioner Policy
DER	Division of Environmental Remediation
EC	Engineering Control
ECL	Environmental Conservation Law
ELAP	Environmental Laboratory Approval Program
ERP	Environmental Restoration Program
EWP	Excavation Work Plan
HASP	Health and Safety Plan
IC	Institutional Control
IRM	Interim Remedial Measure
NYCDPR	New York City Department of Parks and Recreation
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NYSDOT	New York State Department of Transportation
NYCRR	New York Codes, Rules and Regulations
O&M	Operation and Maintenance
OM&M	Operation, Maintenance and Monitoring
OSHA	Occupational Safety and Health Administration
PCB	Poly Chlorinated Biphenyl
PID	Photoionization Detector
PRR	Periodic Review Report
RAO	Remedial Action Objective
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
ROD	Record of Decision
RP	Remedial Party
SCG	Standards, Criteria and Guidelines
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SPDES	State Pollutant Discharge Elimination System
SVOC	Semi-Volatile Organic Compound
TAL	Target Analyte List
TCL	Target Compound List
TCLP	Toxicity Characteristic Leachate Procedure
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

0. Executive Summary

The following provides a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, maintenance and reporting activities required by this Site Management Plan:

Site Identification:	Site No. 224192 – Former ACME Steel Partition Co., 513 Porter Avenue, Brooklyn, NY
Institutional Controls:	1. The property may be used for restricted residential use (which includes active recreational uses as defined in 6 NYCRR Subparagraph 375-1.8(g)(2)(ii));
	2. All ECs must be operated and maintained as specified in this SMP;
	3. All ECs must be inspected at a frequency and in a manner defined in the SMP;
	4. The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health to render it safe for the intended use, and the user must first notify and obtain written approval to do so from the Department;
	5. Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
	6. All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
	7. Operation, maintenance, monitoring, inspection, and reporting of any physical component of the remedy shall be performed as defined in this SMP;
	8. Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Notice.
	9. The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries, and any potential impacts that are identified must be monitored or mitigated; and
	10. Vegetable gardens and farming on the site are prohibited.
Engineering Controls:	1. Cover System: Comprised of asphalt pavement, concrete pavement or pavers, or a minimum of two feet of environmentally clean fill underlain by a physical demarcation layer consisting of plastic orange-colored snow fencing or equivalent material
Inspections:	**Frequency:**
Cover Inspection	Annually
Reporting:	
2. Periodic Review Report	Triennially, after submittal of the initial PRR

Further descriptions of the above requirements are provided in detail in the latter sections of this Site Management Plan.

1. Introduction

1.1. General

This Site Management Plan (SMP) is a required element of the remedial program for the Former ACME Steel Partition Company site located at 513 Porter Avenue in Brooklyn, New York (hereinafter referred to as the "Site"). See Figure 1 for a Site Location Map. The Site is currently in the New York State (NYS) Inactive Hazardous Waste Disposal Site Remedial Program Site No. 224192 which is administered by New York State Department of Environmental Conservation (NYSDEC).

The New York State Department of Transportation (NYSDOT) entered into an Order on Consent (Index No. R2-0827-14-05) in July 2014 with the NYSDEC to remediate the site. A figure showing the original Site layout prior to the reconstruction of the block is provided as Figure 2. The block on which the original ACME Site was located was reconstructed as part of the Kosciuszko Bridge Reconstruction Project. The block reconstruction resulted in the original Site area being split into three parcels that include what is now a new park area (Parcel 46), a portion of the park and a new realigned Cherry Street to the north (Parcel 47), and a new retaining wall and entrance ramp to the new Kosciuszko Bridge (Parcel 48). This SMP applies to the new park area only which is located on Parcel 46 and part of Parcel 47. The boundaries of the site and associated parcels are depicted on maps of the block and more fully described in the metes and bounds site description that are part of the NYSDOT Acquisition Maps for the Site provided in Appendix A. Also provided is Figure 3 created from one of the acquisition maps, which depicts the original Site lot limits (513 Porter Avenue) and shows the three parcels that make up the Site lot. An aerial photograph is provided on the as-built site survey plan as Figure 4 to present the boundary of the Site area subject to the SMP and environmental notice.

After completion of the remedial work, some contamination was left at this site, which is hereafter referred to as "remaining contamination". Institutional and Engineering Controls (ICs and ECs) have been incorporated into the site remedy to control exposure to remaining contamination to ensure protection of public health and the environment. An Environmental Notice granted to the NYSDEC and recorded with the Kings County Clerk, requires compliance with this SMP and all ECs and ICs placed on the site. A copy of the Environmental Notice is provided in Appendix B.

This SMP was prepared to manage remaining contamination at the site until the Environmental Notice is extinguished in accordance with ECL Article 71, Title 36. This plan has been approved by the NYSDEC and compliance with this plan is required by the grantor of the Environmental Notice and the grantor's successors and assigns. This SMP may only be revised with the approval of the NYSDEC.

It is important to note that:

- This SMP details the site-specific implementation procedures that are required by the Environmental Notice. Failure to properly implement the SMP is a violation of the Environmental Notice, which is grounds for revocation of the Certificate of Completion (COC);
- Failure to comply with this SMP is also a violation of Environmental Conservation Law, 6NYCRR Part 375 and the Order on Consent (Index R2-0827-14-05; Site 224192) for the site, and thereby subject to applicable penalties.

All reports associated with the site can be viewed by contacting the NYSDEC or its successor agency managing environmental issues in New York State. A list of contacts for persons involved with the site is provided in Table 1 of this SMP.

This SMP was prepared by TRC Engineers, Inc. (TRC) on behalf of the NYSDOT in accordance with the requirements of the NYSDEC's DER-10 ("Technical Guidance for Site Investigation and Remediation") dated May 3, 2010 and the guidelines provided by the NYSDEC. This SMP addresses the means for implementing the ICs and/or ECs that are required by the Environmental Notice for the site.

1.2. Revisions

Revisions to this plan will be proposed in writing to the NYSDEC's project manager. Revisions will be necessary upon, but not limited to, the following occurring: a change in media monitoring requirements, upgrades to or shut-down of a remedial system, post-remedial removal of contaminated soil, or other

significant change to the site conditions. In accordance with the Environmental Notice for the site, the NYSDEC will provide a notice of any approved changes to the SMP, and append these notices to the SMP that is retained in its files.

1.3. Notifications

Notifications will be submitted by the property owner/operator to the NYSDEC, as needed, in accordance with NYSDEC's DER–10 for the following reasons:

- 60-day advance notice of any proposed changes in site use that are required under the terms of the Order on Consent, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire; flood; or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the site, with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Order on Consent and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

Table 1 includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is also provided in Table 1.

2. Summary of Previous Investigations and Remedial Actions

2.1. Site Location and Description

The site is located in Brooklyn, Kings County, New York and is identified as Block 2811 and Lot 14 on the Brooklyn Tax Map (see Acquisition Map in Appendix A). The original Site is an approximately 0.92-acre area that was bounded by the former Cherry Street to the north, Anthony Street to the south, Porter Avenue to the east, and the former Sgt. William Dougherty Playground to the west (see Figure 2). The boundaries of the Site are more fully described on the Acquisition Maps provided in Appendix A. As described in Section 1.1, the block reconstruction resulted in the original Site area (Block 2811, Lot 14) being split into three parcels, Parcels 46, 47, and 48. Figure 3 depicts the original Site lot limits (513 Porter Avenue) and shows the three parcels that make up the lot. Parcel 46 and part of Parcel 47 (southern edge) occupy an area of approximately 0.5 acres which has been developed into a portion of the existing park. The remaining parcels, part of Parcel 47 and all of Parcel 48, are now occupied by public roadway elements associated with the reconstruction of the Kosciuszko Bridge. This SMP only applies to Parcel 46 and the southern edge of Parcel 47 and the corresponding eastern portion of the new park located in these two areas. The owner of the site (Parcel 46 and part of Parcel 47) at the time of issuance of this SMP is the City of New York with the operator being the New York City Department of Parks and Recreation (NYCDPR). NYCDPR also operates the adjoining remaining portion of the park which in its entirety with the site is the Sgt. William Dougherty Park.

2.2. Physical Setting

2.2.1. Land Use

The Site consists of the following: a public park, public road (Cherry Street) and sidewalk, and part of a roadway entrance ramp to the new Kosciuszko Bridge. The Site is zoned manufacturing (M1-1) and is currently used for public purposes including a park and roadway. The site is in the process of being remapped as parkland. The public park includes a handball court, basketball court, skate park, playground, and comfort station.

The properties adjoining the Site and in the neighborhood surrounding the Site primarily include manufacturing/warehouse and commercial properties. The properties immediately south of the Site include manufacturing/warehouse and commercial properties; the properties immediately north of the Site include the BQE/Kosciuszko Bridge followed by commercial and residential properties; the properties immediately east of the Site include commercial properties; and the properties to the west of the Site include the adjoining park area followed by manufacturing/warehouse and commercial properties.

2.2.2. Geology

The geology of Kings County consists of unconsolidated glacial deposits overlying crystalline bedrock. Based upon available literature (Buxton, Soren, Posner, and Shernoff, 1981), the subsurface geology for the Site likely includes the following formations: Pleistocene upper glacial deposits, Gardiners Clay, Jameco Gravel, Cretaceous Raritan Formation consisting of sands and clays, and crystalline bedrock. The depth to crystalline bedrock for the area is estimated to be approximately 80 feet bgs.

Site investigations included the advancement of 53 soil borings to depths ranging from 30 to 100 feet bgs. Copies of site boring logs from the site investigation reports are provided in Appendix C. Fill material was observed throughout the Site between surface grade to depths of approximately 20 feet. The historic fill generally consisted of brown fine- to medium-grained sand with gravel, silt, and clay. Native soil below the historic fill generally consisted of brown fine- to coarse-grained sand with silt, clay, and gravel. Geological Cross Sections are presented in Figure 5 from the Site Characterization Findings Report excerpt which is provided in Appendix C.

2.2.3. Hydrogeology

Based on review of Site investigation reports, groundwater is present at 45 to 60 feet bgs and flows northeast toward Newtown Creek which is approximately 2,400 feet west of the Site. There are no groundwater monitoring wells remaining on the Site. A groundwater surface elevation contour map, which is Figure 2 of the 2014 Site Characterization Findings Report, is provided in Appendix C.

2.3. Investigation and Remedial History

The Site has been occupied by manufacturing facilities including furniture manufacturing, metal working, and cabinet manufacturing facilities since at least the 1930's. A site investigation report review of historic Sanborn Fire Insurance Maps identified the property at 513 Porter Avenue to be occupied by a furniture manufacturer as early as 1933 and by the ACME Steel Partition Company in later years.

Prior to the start of the construction of the new Kosciusko Bridge the Former ACME Steel Partition Company area or Site was completely occupied by an abandoned 1-story brick building. The adjoining area to the east and on the same block was occupied by a public park. At the start of the bridge construction, the park was closed and the perimeter surrounded with a chain-link fence. The brick building that was located on the Site was demolished and removed during Phase 1 of the Kosciuszko Bridge reconstruction project. Following the demolition of the building, the perimeter of the Site was surrounded with a chain-link fence with an entrance gate off of Porter Avenue.

The following narrative provides a site investigation and remedial history timeline and a brief summary of the available project records to document key investigative and remedial milestones for the Site. Full titles for each of the reports referenced below are provided in Section 8.0 - References.

Initial Site Characterization – January-April 2014

In preparation for the Kosciuszko Bridge Reconstruction project, the area including both the Site and adjoining park area were investigated by Environmental, Planning & Management (EPM) on behalf of Parsons Brinkerhoff and NYSDOT in January and February 2014. The results of the initial site investigation were presented in the "Draft Site Characterization Findings Report" prepared by EPM and dated April 7, 2014. EPM completed a subsurface investigation at the Site and adjoining park for the purpose of characterizing the area and identifying remediation requirements for use of the area as a public park following the completion of the new Kosciuszko Bridge reconstruction activities at this location.

Fourteen soil borings were advanced across the Site and adjoining park property. Figure 2 from the site characterization report depicting the sample locations is provided in Appendix C. The borings were completed to depths of 60 to 100 feet bgs. Soils were screened continuously to the boring completion depth and collected for laboratory chemical analysis from depths of 0 to 2 feet bgs, from directly above the water table, from any confining layers, and from interim depths determined by field observations. Two soil borings located on the Site were converted to groundwater monitoring wells (MW-1 and MW-2) and one soil boring on the adjoining property was converted to a groundwater monitoring well (MW-3). Groundwater samples were collected from nine temporary well points and the monitoring wells. In addition, six soil vapor samples were collected across the project site to evaluate the potential for vapor intrusion.

Soil and groundwater samples were analyzed for Target Compound List (TCL) VOCs + 10; TCL SVOCs + 20; TCL PCBs; TCL Pesticides; and, total Target Analyte List (TAL) Metals. Soil vapor samples were analyzed for VOCs by USEPA Method TO-15 and methane gas by USEPA Method 3C. Soil analytical results were compared against NYSDEC Part 375-6.8 Environmental Remediation Program Soil Cleanup Objectives (SCOs) and CP-51 Soil Cleanup Guidance levels. Based on the Site setting and planned use as a public park, the targeted soil cleanup objective for comparison to the soil sample results are the Restricted Residential SCOs. Soil samples were also compared against Protection of Groundwater SCOs to evaluate if the Site is a potential source of groundwater contamination. Groundwater sample analytical results were compared against NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values (Class GA). The site characterization report figures depicting the sample results exceeding these criteria and data summary tables with the sample data and criteria comparisons are presented in Appendix C.

The results of the report indicate the following:

- Urban fill was encountered at a maximum depth of 20 feet bgs.
- Petroleum and chemical odors were apparent in deeper soils at the groundwater table interface. Shallow soils exhibited minor or no impacts. Measurable free-phase product was not observed on groundwater in any Site wells.
- No VOCs were detected in any of the soil samples at concentrations above Restricted Residential SCOs. Tetrachloroethylene (PCE) was detected in a shallow soil sample collected at soil boring location B4 above the Protection of Groundwater SCO (1.3 ppm). PCE was not detected in deeper soils in that boring. None of the remaining soil samples contained PCE or trichloroethylene (TCE) at concentrations above Protection of Groundwater or Unrestricted Use SCOs.
- Petroleum-related VOCs (e.g., benzene, toluene, xylenes) were detected above Protection of Groundwater SCOs in one soil sample collected from B1 (5-10'). Samples from deeper intervals of soil boring B1 were submitted for laboratory analysis and petroleum-related VOCs were not detected above the Protection of Groundwater SCOs. 1,2,4-Trimethylbenzene was detected in soil sample B2 (55-58') above the Protection of Groundwater SCO (3.6 ppm) in the sample that intersected the water table. However, there were no detections above Class GA Values in groundwater sampled from the temporary well point at soil boring B2.
- The investigation identified elevated concentrations of lead in soil boring location B3 (0-2') at concentrations of 6,400 parts per million (ppm), which exceeds the NYSDEC Part 375-6.8 Industrial Use SCO (3,900 ppm).
- PCE was detected above the Class GA value of 5 parts per billion (ppb) in groundwater samples collected from MW-1 (57 ppb), MW-2 (70 ppb), in MW-3 (5.7 ppb), in B6 (20 ppb), and in B7 (10 ppb). TCE was detected above the Class GA value of 5 ppb in groundwater samples collected from MW-1 (5.8 ppb), MW-2 (14 ppb), B7 (80 ppb), and B9 (10 ppb).
- Petroleum-related VOCs (i.e., benzene, ethylbenzene, toluene and xylenes (BTEX); 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2,4,5-tetramethylbenzene) were detected in groundwater samples collected from MW-2 and B10.
- Petroleum- and chlorinated solvent-related VOCs were detected at elevated concentrations in soil vapor. However, methane was not detected in any of the soil vapor samples at concentrations exceeding its lower explosive limit.

EPM concluded that the results of the investigation were consistent with the results of recent investigations performed in public areas in the vicinity of the Site. Additionally, EPM concluded that Site is likely not the source of petroleum- or chlorinated solvent -related VOC contamination in groundwater. EPM recommended that the Site be capped with pavement or with soil meeting Restricted Residential SCOs and that new enclosed structures in the park be constructed on elevated foundations (or fitted with vapor mitigation systems, if elevated foundations are deemed infeasible) to eliminate potential vapor intrusion concerns. EPM also concluded that although groundwater beneath the area of the new park is impacted with chlorinated solvents and petroleum related compounds, there is no exposure pathway to the contaminated groundwater since the water table is located approximately 50 feet below grade and is not used as a potable source.

2.3.1. Supplemental Site Investigation – May-June 2014

In response to the Site Characterization Findings Report submitted by EPM in April 2014, NYSDEC requested additional soil sampling to delineate the impacts on the Site and adjacent park. A supplemental investigation was implemented which included advancement of 37 supplemental soil borings in May 2014 to further delineate soil contamination. The results of the supplemental site investigation are presented in the "Draft Supplemental Site Characterization Findings Report" prepared by EPM and dated June 23, 2014. Figure 2 from the supplemental site investigation report depicting the sample locations is provided in Appendix C. Soil samples collected from the borings were analyzed for TCL VOCs; total RCRA Metals; and TCLP RCRA Metals. The report figures depicting the sample results exceeding these criteria and data summary tables with the sample data and criteria comparisons are presented in Appendix C.

The results of the report indicate the following:

- PCE was detected in supplemental soil borings above Unrestricted Use and Protection of Groundwater SCOs (1.3 ppm) in soil samples B3-C (2-4') at 4.7 ppm, B3-C (4-6') at 3.1 ppm, and in B3-D (0-2') at 2.9 ppm. None of the PCE detections exceed the Restricted Residential SCO.

- TCE was not detected in soil samples above the Protection of Groundwater SCO.
- Toluene was detected above the Unrestricted Use SCO (0.7 ppm) in the soil sample S3 (0-2') at 33 ppm. Naphthalene was detected above the Unrestricted Use SCO (12 ppm) in soil sample MW2-I (15-20') at 74 ppm. Toluene and naphthalene did not exceed either respective Restricted Residential SCO in any samples. Additionally, minor detections of acetone, methylene chloride, and 4-methyl-2-pentanone were reported below their respective Restrictive Residential SCOs.
- Lead was detected in supplemental soil borings above the Restricted Residential SCO (400 ppm) in soil samples B4-D (0-2') at 620 ppm, B4-E (0-2') at 650 ppm, S2 (5-10') at 820 ppm, SGI-A (5-10') at 540 ppm, and S-4 (0-2') at 1,300 ppm. The sample collected from soil boring S-4 (0-2') also exceeded the Commercial Use SCO of 1,000 ppm.
- Arsenic was detected in supplemental soil borings above Restricted Residential and Commercial SCOs (16 ppm) in samples MW2-B (5-10') at 25 ppm, in MW2-E (0-2') at 18 ppm, in MW2-F (10-15') at 23 ppm, in MW2-H (5-10') at 22 ppm, in S6 (5-10') at 19 ppm, and in SGI-A (5-10') at 26 ppm.
- Mercury was detected in supplemental soil borings above the Restricted Residential SCO (0.81 ppm) in soil samples B3-D (0-2') at 1.5 ppm, in B4-A (0-2') at 0.93 ppm, in S-2 (5-10') at 1.1 ppm, in S-3 (5-10') at 0.82 ppm, in SG1-A (0-2') at 1.4 ppm, and in SGI-A (5-10') at 1.7 ppm.
- Barium was detected in a supplemental soil boring above Restricted Residential and Commercial SCOs (400 ppm) in soil sample B3-E (0-2') at 780 ppm.
- Cadmium was detected in a supplemental soil boring above the Restricted Residential SCO (4.3 ppm) in soil sample S2 (5-10') at 5.2 ppm.
- TCLP lead was detected in two supplemental soil borings above the USEPA and NYSDEC Regulatory Level of 5 milligrams per Liter (mg/L) for characteristic hazardous waste in soil sample B4-E (0-2') at 5.2 mg/L and S-4 (0-2') at 35 mg/L.

EPM recommended that the two areas of soil impacted with hazardous levels of lead be excavated and disposed offsite during redevelopment. Additionally, EPM indicated that excavation of PCE impacted soil was not required since PCE was detected below Restricted Residential SCOs. They also indicated that any existing Site soil will be capped with pavement or a 2-foot thick layer of clean fill in non-paved areas planned under the park redevelopment associated with the new Kosciuszko Bridge project.

2.3.2. Groundwater Compound Specific Isotope Analysis – May-August 2014

At the request of the NYSDEC, EPM completed Compound Specific Isotope Analysis (CSIA) of Site groundwater samples for NYSDOT in order to determine if the Site could have contributed to chlorinated solvent contamination present in underlying groundwater in the area. Groundwater in the vicinity of 513 Porter Avenue is known to be impacted with PCE and TCE. A reported source of these solvents to groundwater is the south adjacent and hydraulically upgradient property across Anthony Street that was also formerly occupied by ACME Steel.

Groundwater samples were collected on May 29 and May 30, 2014 utilizing low flow sampling procedures from three on-site wells identified as wells MW-1, MW-2 and MW-3 and from two nearby off-site wells identified as DEC-005 and DEC-026. EPM prepared a letter report "Groundwater Sampling Results for Compound Specific Isotope Analysis" dated August 27, 2014 summarizing the results and submitted it to the NYSDEC. The CSIA report Figure 2 depicting the sample locations and the groundwater sample data summary table are presented in Appendix C. The results of the CSIA concluded the following:

- TCE identified in on-site wells MW-1, MW-2, and MW-3 is not likely derived from the same source as off-site wells DEC-005 and DEC-026.
- PCE identified in on-site well MW-1 is "isotopically identical" to PCE detected in hydraulically upgradient off-site well DEC-026.
- PCE identified in on-site well MW-2 is "isotopically similar" to PCE detected in hydraulically upgradient off-site well DEC-005.
- Due to the distribution of TCE and PCE in soil samples collected across the site as well as the results of the CSIA, EPM concluded that the PCE and TCE in groundwater at the Site is from an off-site source.

In an email dated September 4, 2014, the NYSDEC approved both the Supplemental Site Characterization Findings Report and the Groundwater Sampling Results for CSIA Report and required

the removal of lead-hazardous soils from the property governed by an IRM work plan to be submitted to the NYSDEC for review and approval.

2.3.3. Lead Contaminated Hot-Spot Removals – February 2015

In accordance with the IRM Work Plan, elevated lead levels were removed from two "hot spot" boring locations (B4-E and S-4) identified on the Site during the site investigations. Both of these locations are shown on Figure 2 from the supplemental site investigation report presented in Appendix C. Soil at the two locations was found to have elevated lead concentrations exceeding the toxicity characteristic leaching procedure (TCLP) lead toxicity hazardous waste characteristic level of 5 mg/kg (per 40 CFR Part 261 and 6 NYCRR Part) thereby characterizing the soil as hazardous waste for transport and disposal. As a result, soil at each location was excavated by Skanska/Kiewitt/ECCO III (SKE) under TRC oversight from a distance of out to 5 feet around each location (i.e., 10-foot by 10-foot square area) and down to a 5-foot depth below grade. A total of 73 tons of soil was excavated, loaded directly into dump trucks, and transported off site for disposal on February 13, 2015. Copies of the manifests for this soil transport and disposal are provided in Appendix C.

Immediately following this removal of lead-contaminated soil, post excavation sidewall and bottom soil samples were collected by TRC from each location to verify a complete removal of the lead hazardous soils. The results of this soil testing showed no remaining hazardous waste lead levels in the soil at either location. As a result, no additional soil removal was conducted at either location. The laboratory post excavation soil sample analysis results are provided in Appendix C.

Following the verification of a complete removal of the TCLP lead hazardous soils, a demarcation layer consisting of orange plastic safety fence material was placed along the bottom of the excavation at prior on-site boring location B4-E and the excavation was backfilled to grade with clean sand on February 20, 2015. At prior boring location S-4 located off of the new park site area, the finished grade of the new asphalt paved Cherry Street was completed below the elevation of the bottom of the remedial excavation and therefore backfill was not required.

2.3.4. Reconstruction Site Regrading/Soil Removal and Gravel Cover

From March 21-27, 2017, SKE removed two feet of soil from across the surface of the Site to provide for the placement of a 2-foot thick gravel cover across the Site for erosion and dust control during the 2 month period between the completion of on-site work associated with Phase 1 of the Kosciuszko Bridge Reconstruction Project and the start of the construction of the new Sgt. William Dougherty Park on the Site. From March 27-30, 2017, SKE installed a demarcation layer, consisting of orange plastic safety fence material, across the entire site area and placed a minimum of 2-feet of gravel over the demarcation layer. The demarcation layer was installed to serve as a visual indicator between clean cover materials and underlying potentially contaminated soils/fill material.

2.4. Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site as listed in the IRM Work Plan dated November 2014 are as follows:

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.5. Remaining Contamination

Based on the site investigation findings, the following summarizes those findings that represent the residual Site contamination. This summary takes into account the removal of soils during the removal of

two lead-contaminated hot spots and the placement of a gravel cover over the Site. The sample data tables and figures that summarize the prior site investigation findings are presented in Appendix C. Those tables and figures have been amended by TRC by crossing out the soil data associated with the completed soil removals (described in Section 2.3) or located off of the new park site area (e.g., in new Cherry Street area, within the adjoining former park playground area at the west end of the block). The intent of the amendment (crossing out data) is to only identify data that is associated with soil that remains at the Site.

2.5.1. Soil

Soil samples were collected from three well borings and eleven soil borings installed on the Block 2811 area that included both the Former Acme Steel Partition Company area located at 513 Porter Avenue (the Site) and the adjoining park area. The monitoring well MW-3 and the borings B-9, B-10 and B-11 were all located on the park area which was not part of the Site. Therefore, the soil sample results associated with those locations are not presented below in the summary of residual Site soil contamination.

The results of the Site Characterization Findings Report dated April 7, 2014 represent the following existing Site soil conditions, not including any soil data associated with the two lead contaminated soil hot spot removals (borings B4-E and S-4) and the 0-2 ft. bgs surface soil interval that was removed from the Site for erosion and dust control during Phase 1 of the bridge reconstruction project (as summarized in Section 2.3):

- Urban fill was encountered at a maximum depth of 20 feet bgs.
- Petroleum and chemical odors were apparent in deeper soils at the groundwater table interface. Shallow soils exhibited minor or no impacts. Measurable free-phase product was not observed on groundwater in any Site wells.
- No VOCs were detected in any of the soil samples at concentrations above Restricted Residential SCOs. PCE was detected in a shallow soil sample collected at soil boring location B4 above the Protection of Groundwater SCO (1.3 ppm). PCE was not detected in deeper soils in that boring. None of the remaining soil samples contained PCE or TCE at concentrations above Protection of Groundwater or Unrestricted Use SCOs.
- Petroleum-related VOCs (e.g., benzene, toluene, xylenes) were detected above Protection of Groundwater SCOs in one soil sample collected from B1 (5-10'). Samples from deeper intervals of soil boring B1 were submitted for laboratory analysis and petroleum-related VOCs were not detected above the Protection of Groundwater SCOs. 1,2,4-Trimethylbenzene was detected in soil sample B2 (55-58') above the Protection of Groundwater SCO (3.6 ppm) in the sample that intersected the water table. However, there were no detections above Class GA Values in groundwater sampled from the temporary well point at soil boring B2.

The results of the Supplemental Site Characterization Findings Report dated June 23, 2014 indicate the following soil conditions not including any data associated with the near surface soil interval (0-2 ft. bgs) that has since been removed from the site during the site reconstruction regrading as well as the two lead-contaminated soil hot spot removals:

- PCE was detected in supplemental soil borings above Unrestricted Use and Protection of Groundwater SCOs (1.3 ppm) in soil samples B3-C (2-4') at 4.7 ppm and B3-C (4-6') at 3.1 ppm. None of the PCE detections exceed the Restricted Residential SCO.
- TCE was not detected in soil samples above the Protection of Groundwater SCO.
- Naphthalene was detected above the Unrestricted Use SCO (12 ppm) in soil sample MW2-I (15-20') at 74 ppm. Naphthalene did not exceed either respective Restricted Residential SCO in any samples. Additionally, minor detections of acetone were reported above the Unrestricted Use SCO but below the Restricted Residential Use SCO.
- Lead was detected in supplemental soil borings above the Restricted Residential SCO (400 ppm) in soil samples S2 (5-10') at 820 ppm and SGI-A (5-10') at 540 ppm.
- Arsenic was detected in supplemental soil borings above Restricted Residential and Commercial SCOs (16 ppm) in samples MW2-B (5-10') at 25 ppm, MW2-F (10-15') at 23 ppm, MW2-H (5-10') at 22 ppm, S6 (5-10') at 19 ppm, and SGI-A (5-10') at 26 ppm.
- Mercury was detected in supplemental soil borings above the Restricted Residential SCO (0.81 ppm) in soil samples S-2 (5-10') at 1.1 ppm, S-3 (5-10') at 0.82 ppm, and SGI-A (5-10') at 1.7 ppm.

- Cadmium was detected in a supplemental soil boring above the Restricted Residential SCO (4.3 ppm) in soil sample S2 (5-10') at 5.2 ppm.

Table 1 and Figure 3 of the Site Characterization Findings Report and Table 1 of the Supplemental Site Characterization Findings Report provided in Appendix C summarize the results of all soil samples collected that exceed the Unrestricted Use SCOs, the Restricted Residential Use, and Protection of Groundwater SCOs at the site at the time of the indicated site investigations and are believed to be generally representative of the Site soil conditions. However, the sample data for the near surface sample interval (0-2 ft. bgs) that was removed from the site during the site reconstruction regrading as well as the sample data associated with the two lead-contaminated hot spot removals have been crossed out on the tables and figures provided in Appendix C.

2.5.2. Groundwater

Three permanent monitoring wells and eleven temporary well points were installed on the Block 2811 area that included both the Former ACME Steel Partition Company area located at 513 Porter Avenue (the Site) and the adjoining former park area. The monitoring well MW-3 and the temporary well points installed at B-9, B-10 and B-11 were all located on the former park area which was not part of the Site. Therefore, the groundwater sample results associated with those locations are not presented below.

The results of the Site Characterization Findings Report dated April 7, 2014 indicate the following Site groundwater conditions:

- PCE was detected above the Class GA value of 5 parts per billion (ppb) in groundwater samples collected from prior on-site wells MW-1 (57 ppb), MW-2 (70 ppb), B-6 (20 ppb), and B-7 (10 ppb). TCE was detected above the Class GA value of 5 ppb in groundwater samples collected from MW-1 (5.8 ppb), MW-2 (14 ppb), and B-7 (80 ppb).
- Petroleum-related VOCs (i.e., benzene, ethylbenzene, toluene and xylenes (BTEX); 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2,4,5-tetramethylbenzene) were detected in the groundwater sample collected from well MW-2.

Figure 2 from the Site Characterization Findings Report and provided in Appendix C presents both the sample locations and a groundwater contour map for the site.

The results of the Groundwater Sampling for Compound Specific Isotope Analysis letter report dated August 27, 2014 indicate the following Site groundwater conditions:

- PCE was detected above the Class GA value of 5 parts per billion (ppb) in groundwater samples collected from on-site wells MW-1 (24.1 ppb) and MW-2 (119 ppb). PCE was also detected in the two upgradient offsite wells (DEC-005 at 20.4 pb and DEC-026 and 29.8 ppb).
- TCE was detected above the Class GA value of 5 ppb in groundwater samples collected from on-site well MW-2 (22.2 ppb).
- The petroleum-related VOCs benzene, ethylbenzene, and xylene (BTEX) were detected above the respective Class GA values in well MW-2.
- Two upgradient off-site NYSDEC wells showed elevated levels of TCE, PCE, and cis-1,2-dichloroethene above Class GA values.

All on-site groundwater monitoring wells MW-1, MW-2, and MW-3 were permanently closed on November 12-13, 2014.

Table 2 and Figure 4 of the Site Characterization Findings Report and an Accutest laboratory data summary table and Figure 2 from the Groundwater Sampling for Compound Specific Isotope Analysis letter report provided in Appendix C summarize the results of all samples of groundwater that exceed the SCGs and present site maps with the groundwater sample locations.

This groundwater sample data represents the site groundwater conditions at the time of the associated groundwater sampling in 2014. No additional groundwater sampling and testing has been conducted after that date or the completion of the remedial action.

2.5.3. Soil Vapor

Soil vapor samples were collected from six soil gas points installed on the Block 2811 area that included both the Former Acme Steel Partition Company area located at 513 Porter Avenue (the Site) and the adjoining park area. The soil gas points SG-5 and SG-6 were located on the park area which was not part of the Site. Therefore, the soil vapor sample results associated with those two locations are not presented below in the summary of Site soil vapor conditions.

The results of the Site Characterization Findings Report dated April 7, 2014 indicate the following Site soil vapor conditions:

- Petroleum- and chlorinated solvent-related VOCs were detected at elevated concentrations in soil vapor. However, methane was not detected in any of the soil vapor samples at concentrations exceeding the lower explosive limit.
- PCE and TCE levels were detected at elevated levels in the soil gas vapor at all four on-site locations.

Table 3 and Figure 5 of the Site Characterization Findings Report provided in Appendix C summarize the results of all samples of soil vapor and present a site map with the soil vapor sample locations. This soil vapor data represents the Site conditions at the time of the associated soil vapor sampling in 2014. No additional soil vapor sampling and testing has been conducted after that date or after completion of the remedial activities.

3. Institutional and Engineering Control plan

3.1. General

Since remaining contamination exists at the site, Institutional Controls (ICs) and Engineering Controls (ECs) are required to protect human health and the environment. This IC/EC Plan describes the procedures for the implementation and management of all IC/ECs at the site. The IC/EC Plan is one component of the SMP and is subject to revision by the NYSDEC.

This plan provides:

- A description of all IC/ECs on the site;
- The basic implementation and intended role of each IC/EC;
- A description of the key components of the ICs set forth in the Environmental Easement;
- A description of the controls to be evaluated during each required inspection and periodic review;
- A description of plans and procedures to be followed for implementation of IC/ECs, such as the implementation of the Excavation Work Plan (EWP) (as provided in Appendix D) for the proper handling of remaining contamination that may be disturbed during maintenance or redevelopment work on the site; and
- Any other provisions necessary to identify or establish methods for implementing the IC/ECs required by the site remedy, as determined by the NYSDEC.

3.2. Institutional Controls

A series of ICs is required by the IRM Work Plan to: (1) implement, maintain and monitor Engineering Control systems; (2) prevent future exposure to remaining contamination; and, (3) limit the use and development of the site to restricted residential uses only. Adherence to these ICs on the site is required by the Environmental Notice and will be implemented under this SMP. ICs identified in the Environmental Notice may not be discontinued without an amendment to or extinguishment of the Environmental Notice. The IC site boundaries are shown on and described for the associated parcel (Parcel 46) on the Acquisition Maps in Appendix A. These ICs are:

- The property may be used for restricted residential use (which includes active recreational uses as defined in 6 NYCRR Subparagraph 375-1.8(g)(2)(ii));
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health to render it safe for the intended use, and the user must first notify and obtain written approval to do so from the Department.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any physical component of the remedy shall be performed as defined in this SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Notice.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on the acquisition map in Appendix A, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

3.3. Engineering Controls

3.3.1. Cover

Exposure to remaining contamination at the site is prevented by a cover system placed over the site. This cover system is comprised of asphalt pavement, concrete pavement or pavers, or a minimum of two feet of environmentally clean fill underlain by a physical demarcation layer consisting of orange-colored snow fencing or equivalent Department-approved material. The site as-built drawings that indicate the location and type of cover system are presented on Figures 8, 8a, 8b, and 8c prepared for the Construction Completion Report and included in Appendix E of this plan. The source record drawings PVP-02 (Sheet No. 42R2) and D-01 (Sheet No. 76) used to prepare these figures are also presented in Appendix E. The depth to the demarcation layer varies across the Site.

The demarcation layer was installed at the completion of Phase 1 of the K Bridge project with an overlying 2-foot gravel cover. When the park was constructed later, the various permanent covers/subbases shown on Figure 8a, 8b and 8c were installed above the demarcation and gravel to meet the appropriate final grades for the park. As a result, the demarcation layer depth varies by location for each cover type depending on the final site grades. Therefore, a topographic map of the installed demarcation layer (Figure 6) is provided and can be used with the final site grade information (provided on Figure 3) to determine the depth to the demarcation layer at a particular location on the Site. In addition, at deep park construction excavation locations (e.g., utilities, concrete planting boxes) that penetrated the original demarcation layer, elevations for the replaced demarcation layer are provided for those locations on Figure 6.

The Excavation Work Plan (EWP) provided in Appendix D outlines the procedures required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection of this cover are provided in the Monitoring and Sampling Plan included in Section 4.0 of this SMP. Any work conducted pursuant to the EWP must also be conducted in accordance with the procedures defined in a Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) prepared for the site.

A site-specific Health and Safety Plan (HASP) will be prepared by a qualified person for the contractor performing any site construction activities that have the potential to penetrate the demarcation layer and otherwise expose or disturb underlying contaminated soils and potentially expose workers to soil or groundwater contaminants. The HASP shall be prepared in accordance with the most recently adopted and applicable general industry (29 CFR 1910) and construction (29 CFR 1926) standards of OSHA, the U.S. Department of Labor, NYSDEC DER-10, as well as any other federal, state or local applicable statutes or regulations. At a minimum, the HASP will include a description of the health and safety procedures associated with the planned site construction/maintenance activities. The HASP shall be submitted to the owner/operator and NYSDEC/NYSDOH for review and approval prior to starting such site construction activities. A copy of the HASP will be available at the site during the conduct of all such construction activities to which it is applicable.

A CAMP is provided in Appendix F. Based on any applicable changes to State and federal health and safety requirements and specific work activities and methods employed by site workers, the CAMP will be updated by the contractor or party conducting the ground intrusive work activities and shall be prepared in current compliance with NYSDEC DER-10, 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations.

3.3.2. Criteria for Completion of Remediation/Termination of Remedial Systems

Generally, remedial processes are considered completed when monitoring indicates that the remedy has achieved the remedial action objectives identified by the decision document. The framework for determining when remedial processes are complete is provided in Section 6.4 of NYSDEC DER-10.

Cover System

The site-wide cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity or at a modified frequency and duration as approved by the Department.

4. Monitoring Plan

4.1. General

This Monitoring Plan describes the measures for evaluating the overall performance and effectiveness of the remedy. This Monitoring Plan may only be revised with the approval of the NYSDEC.

This Monitoring Plan describes the methods to be used for:

- Evaluating site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment;

To adequately address these issues, this Monitoring Plan provides information on:

- Annual inspection and periodic certification.

Reporting requirements are provided in Section 7.0 of this SMP.

4.2. Site–wide Inspection

Site-wide inspections will be performed at a minimum of once per year. Modification to the frequency or duration of the inspections will require approval from the NYSDEC. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs. During these inspections, an inspection form will be completed as provided in Appendix G – Site Management Forms. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including site usage;
- An evaluation of the condition and continued effectiveness of ECs;
- General site conditions at the time of the inspection;
- The site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that site records are up to date.

Inspections of all remedial components installed at the site will be conducted. A comprehensive site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the Periodic Review Report. The inspections will determine and document the following:

- Whether ECs continue to perform as designed;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Notice, and
- If site records are complete and up to date.

Reporting requirements are outlined in Section 7.0 of this plan.

Inspections will also be performed in the event of an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs that reduces or has the potential to reduce the effectiveness of ECs in place at the site, verbal notice to the NYSDEC must be given by noon of the following day. In addition, an inspection of the site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the site by a qualified environmental professional or Professional Engineer licensed to practice in New York State, as determined by the NYSDEC. Written confirmation must be provided to the NYSDEC within 7 days of the event that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.

5. Operation and Maintenance Plan

5.1. General

The site remedy does not rely on any mechanical systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not included in this SMP.

6. Periodic Assessments

6.1. Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the performance, effectiveness and protectiveness of a given site and associated remedial systems. Vulnerability assessments provide information so that the site and associated remedial systems are prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

The Site is located approximately 2,400 feet west of Newtown Creek which is a tributary of the East River in the New York Harbor and the Port of New York/New Jersey. The Newtown Creek 100-year floodplain coincides with the bulkhead system of the creek in many places. According to the FEMA Flood Insurance Rate Map for the area (Map No. 3604970206F Effective 09/05/2007), the Site is located within an area designated as Zone X that is defined as an “Area of Minimal Flood Hazard” which is an area outside of the 0.2% annual chance or 500-year floodplain boundary.

There are no buildings or significant structures on the Site that would be considered critical infrastructure at risk due to flooding. The comfort station building located on the new park is located at the west end of the block off of the Site area.

Based on the location of the Site outside of the 100- and 500-year floodplains and the fact that there is no critical infrastructure located on the Site that would be at risk due to flooding, a climate change vulnerability assessment was not conducted and is not planned for the Site.

7. Reporting Requirements

7.1. Site Management Reports

All site management inspection, maintenance and monitoring events will be recorded on the appropriate site management forms provided in Appendix G. These forms are subject to NYSDEC revision.

All applicable inspection forms and other records, including media sampling data and cover system maintenance reports, generated for the site during the reporting period will be provided in electronic format to the NYSDEC in accordance with the requirements of Table 2 and included with and summarized in the Periodic Review Report.

All interim monitoring/inspections reports will include, at a minimum:

- Date of event or reporting period;
- Name, company, and position of person(s) conducting monitoring/inspection activities;
- Description of the activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet);
- Copies of all field forms completed (e.g., site inspection logs);
- A figure illustrating significant site inspection finding and photo locations;
- Any observations, conclusions, or recommendations; and

Routine cover maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting maintenance activities;
- Description of maintenance activities performed;
- Any modifications to the cover system;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents noted (included either on the checklist/form or on an attached sheet); and,
- Other documentation such as copies of invoices for maintenance work, receipts for replacement materials, etc., (attached to the checklist/form).

Non-routine cover maintenance event reporting forms will include, at a minimum:

- Date of event;
- Name, company, and position of person(s) conducting non-routine maintenance/repair activities;
- Description of non-routine activities performed;
- Where appropriate, color photographs or sketches showing the approximate location of any problems or incidents (included either on the form or on an attached sheet); and
- Other documentation such as copies of invoices for cover repair work, receipts for cover replacement materials, etc. (attached to the checklist/form).

Any associated site sample data (e.g., imported borrow soil testing) will be reported in digital format as determined by the NYSDEC. Currently, data is to be supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link http://www.dec.ny.gov/chemical/62440.html.

7.2. Periodic Review Report

A Periodic Review Report (PRR) will be submitted to the Department beginning sixteen (16) months after the Certificate of Completion is issued. After submittal of the initial Periodic Review Report, the next PRR shall be submitted triennially (every third year) to the Department or at another frequency as may be required by the Department. The report will be prepared in accordance with NYSDEC's DER-10 and submitted within 30 days of the end of each certification period. Media sampling results will also be incorporated into the Periodic Review Report. The report will include:

- Identification, assessment and certification of all ECs/ICs required by the remedy for the site.
- Results of the required site inspections and severe condition inspections, if applicable.

- All applicable site management forms and other records generated for the site during the reporting period in the NYSDEC-approved electronic format, if not previously submitted.
- A summary of any sample data (e.g., borrow soil testing) and/or information generated during the reporting period, with comments and conclusions.
- Data summary tables and graphical representations of contaminants of concern by media (soil, etc.), which include a listing of all compounds analyzed, along with the applicable standards, with all exceedances highlighted.
- Results of any sample analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted in digital format as determined by the NYSDEC. Currently, data is supplied electronically and submitted to the NYSDEC EQuIS™ database in accordance with the requirements found at this link: http://www.dec.ny.gov/chemical/62440.html.
- A site remedy compliance evaluation, which includes the following:
- The compliance of the remedy with the requirements of the site-specific IRM Work Plan;
- The operation and the effectiveness of all cover materials, including identification of any needed repairs or modifications;
- Any new conclusions or observations regarding site contamination based on inspections or data generated by the Monitoring Plan;
- Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
- The overall performance and effectiveness of the remedy.

7.2.1. Certification of Institutional and Engineering Controls

Following the last inspection of the reporting period, a qualified environmental professional or Professional Engineer licensed to practice in New York State will prepare, and include in the Periodic Review Report, the following certification as per the requirements of NYSDEC DER-10:

"For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- *The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;*
- *The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;*
- *Nothing has occurred that would impair the ability of the control to protect the public health and environment;*
- *Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;*
- *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;*
- *Use of the site is compliant with the environmental notice;*
- *The engineering control systems are performing as designed and are effective;*
- *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*
- The *information* presented in this report is accurate and complete.

I certify that all information and statements in this certification form 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, [name], of [business address], am certifying as [Owner/Remedial Party or Owner's/Remedial Party's Designated Site Representative] for the site."

The signed certification will be included in the Periodic Review Report.

The Periodic Review Report will be submitted, in electronic format, to the NYSDEC Central Office, Regional Office in which the site is located and the NYSDOH Bureau of Environmental Exposure Investigation. The Periodic Review Report may need to be submitted in hard-copy format, as requested by the NYSDEC project manager.

7.3. Corrective Measures Work Plan

If any component of the remedy is found to have failed, or if the periodic certification cannot be provided due to the failure of an institutional or engineering control, a Corrective Measures Work Plan will be submitted to the NYSDEC for approval. This plan will explain the failure and provide the details and schedule for performing work necessary to correct the failure. Unless an emergency condition exists, no work will be performed pursuant to the Corrective Measures Work Plan until it has been approved by the NYSDEC.

8. References

Environmental Planning & Management Inc., (EPM) “Draft Site Characterization Findings Report”, 513 Porter Avenue and Sgt. Dougherty Park, Brooklyn, NY, April 7, 2014.

EPM, Draft Supplemental Site Characterization Findings Report, Former ACME Facility 513 Porter Avenue, Brooklyn, NY, June 23 2014.

EPM, Groundwater Sampling Results for Compound Specific Analysis, 513 Porter Avenue, Brooklyn, NY, August 27 2014.

6NYCRR Part 375, Environmental Remediation Programs. December 14, 2006.

NYSDEC, DER-10 – “Technical Guidance for Site Investigation and Remediation”, May 2010.

NYSDEC, 1998. Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1. June 1998 (April 2000 addendum).

TABLES

Table 1

Site Emergency & Notifications Contact Information*

Former ACME Steel Partition Company, Brooklyn, New York

[Created January 24, 2022]

Name	Contact Information
Emergency Contacts	
Medical, Fire, and Police:	911
Hospital, Lutheran Medical Center	(718) 630-7000
NY 811 (formerly DigNet of NY and Long Island)	811 (at least 2 working days advance notice required for utility mark outs)
Poison Control Center	(800) 222-1222
National Response Center	(800) 424-8802
NYSDEC Spills Hotline	(800) 457-7362
NYCDEP Division of Emergency Response	311
NYCDPR Capital Projects Director of Environmental Kay Zias	(718) 760-6572
NYCDPR Brooklyn Borough Office Chief of Operations, M&O Jeff Sigadel	(718) 965-8922
TRC Engineers, Inc. Remedial Engineer Jim Peronto	(860) 298-6233
NYSDEC Notification Contacts	
NYSDEC Project Manager Michael Haggerty	(518) 402-9688 Michael.haggerty@dec.ny.gov
NYSDEC Regional HW Engineer Jane O'Connell	(718) 482-4599 Jane.oconnell@dec.ny.gov
NYSDEC Site Control Kelly Lewandowski	(518) 402-9553 Kelly.lewandowski@dec.ny.gov

* Note: Notifications are subject to change and will be updated as necessary.

Table 2

Schedule of Inspections & Reports

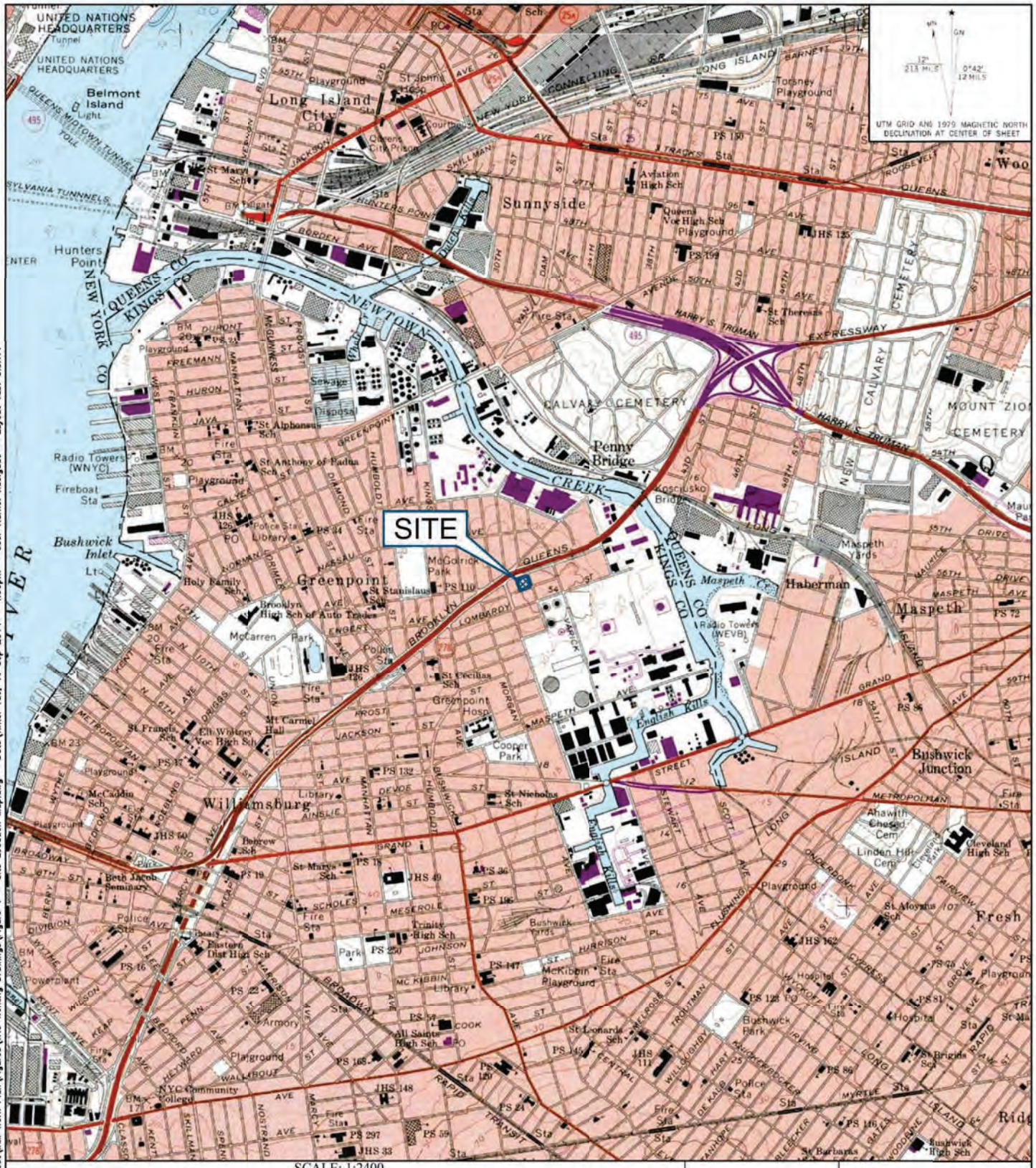
Former ACME Steel Partition Company, Brooklyn, New York

Task/Report	Inspection/Report Frequency*
Cover System Inspection	Annually (!)
Periodic Review Report	Triennially, after the submittal of the initial PRR

* The frequency of events will be conducted as specified until otherwise approved by the NYSDEC.

(!) Inspection Reports for the cover system shall be provided to NYSDEC with the Periodic Review Reports (PRRs) at the frequency specified for the PRRs.

FIGURES



SCALE: 1:2400

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER

QUADRANGLE LOCATION

BROOKLYN, N. Y.

N4037.5—W7352.5/7.5

1967

PHOTOREVISED 1979

AMS 6265 III NW—SERIES V821

MAP OBTAINED THROUGH USE OF MAPTECH TERRAIN NAVIGATOR PRO SOFTWARE.

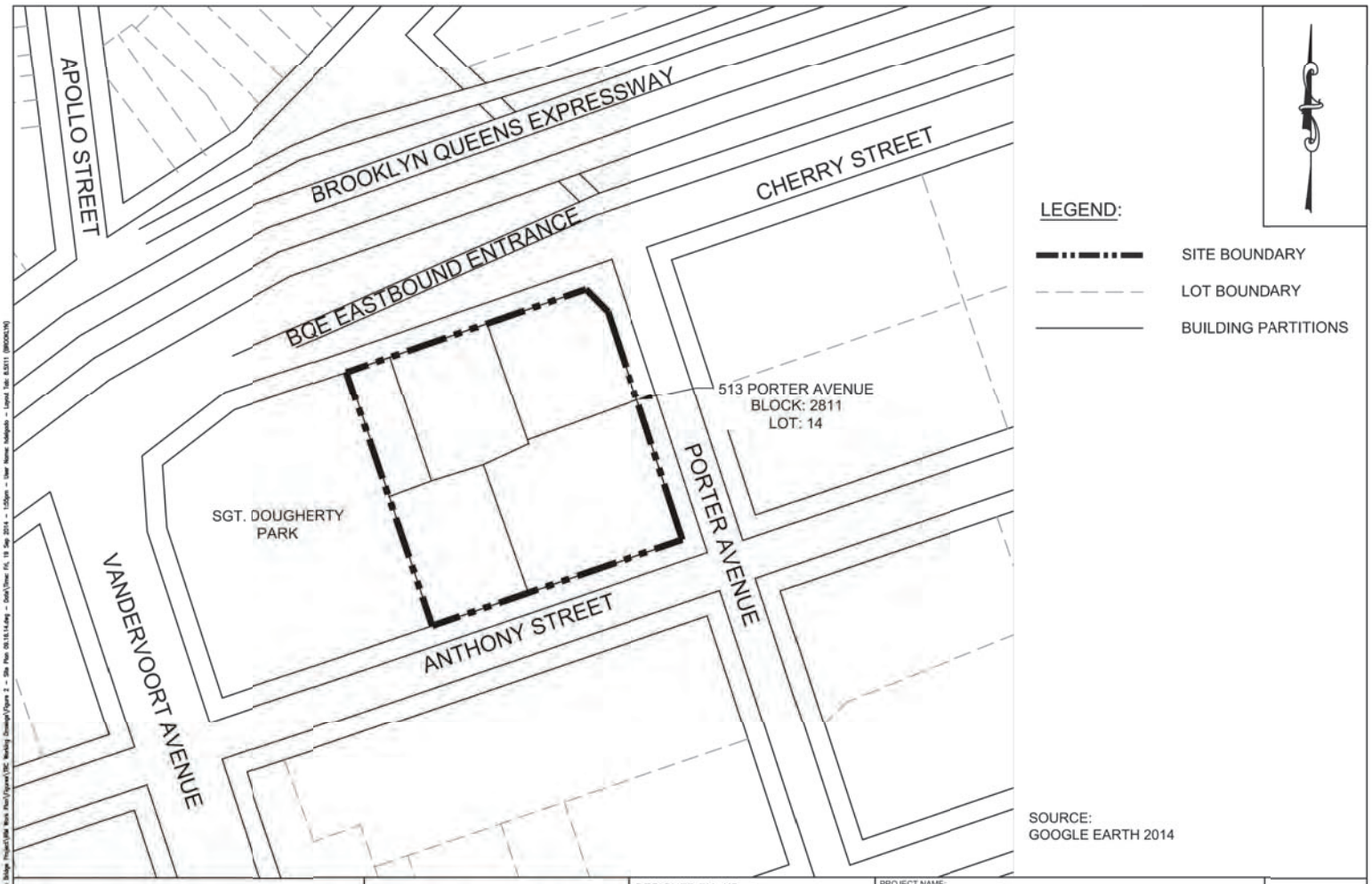
TRC

1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY: KS	PROJECT NAME: FORMER ACME STEEL PARTITION CO. 513 PORTER AVENUE BROOKLYN, NEW YORK 11222
DRAWN BY: HD	
CHECKED BY: CG	
DATE: SEPTEMBER 2014	DRAWING TITLE: SITE LOCATION MAP
SCALE: AS SHOWN	
PROJECT NUMBER: 252356.0000.0004	

FIGURE 1

Path\Name: I:\Projects\200726 – Kosciuszko Bridge Project\RM Work Plan\Figures\TRC Working Drawings\Figure 1 – Site Location Map.dwg – Date\Time: Tue, 16 Sep 2014 – 4:00pm – User Name: hdelgado – Layout Tab: 8.5X11



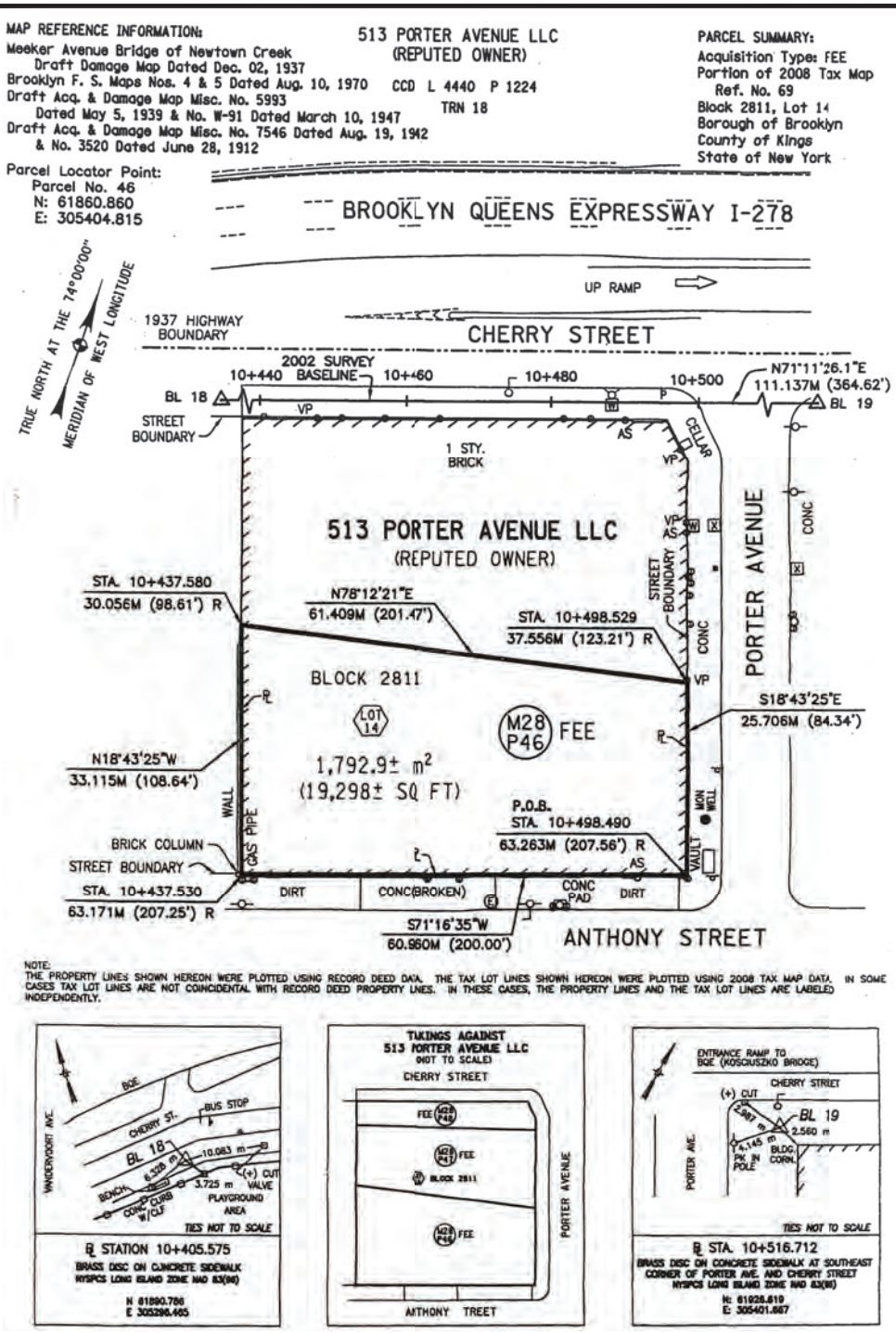
0 100' 200'

APPROXIMATE SCALE: 1"=100'
PAPER SIZE: 8½" x 11"

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY: KS	PROJECT NAME: FORMER ACME STEEL PARTITION CO. 513 PORTER AVENUE BROOKLYN, NEW YORK 11222
DRAWN BY: HD	
CHECKED BY: CG	
DATE: SEPTEMBER 2014	DRAWING TITLE: ORIGINAL SITE LAYOUT PLAN
SCALE: AS SHOWN	
PROJECT NUMBER: 252356.0000.0004	

FIGURE 2



0 80' 160'

GRAPHIC SCALE

SOURCE:
MAP TITLED "NEW YORK STATE DEPARTMENT OF TRANSPORTATION ACQUISITION MAP, MAP No. 28, PARCEL Nos.46-48, SHEET 1 OF 6 SHEETS".

SCALE CHANGED FROM 1:500 METRIC TO 1"=80 FEET.

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trcsolutions.com

PROJECT:
FORMER ACME STEEL PARTITION CO.
513 PORTER AVENUE
BROOKLYN, NEW YORK 11222

TITLE:
PARCEL IDENTIFICATION PLAN

DRAWN BY:	K. HOLLENBECK
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	01/23/2019
PROJ. NO.:	252356-000004-000000
FILE:	Figure 3.dwg

FIGURE 3

8.5x11 -- USER: KHollenbeck -- ATTACHED XREFS: -- ATTACHED IMAGES: figure 3 pages from 20100920310830\0.&page.tiff;
DRAWING NAME: J:\CAD\NYSDOT\ACME Steel-252356-000000\000000\ Figure 3.dwg -- PLOT DATE: January 23, 2019 - 2:31PM -- LAYOUT: 8.5X11P
Version: 2017-10-21

0 30' 60'

SCALE: 1" = 30'

SHEET SIZE: 11" BY 17"

LEGEND (SYMBOLS NOT TO SCALE):

- FORMER ACME STEEL SITE WITHIN PARK AREA LIMITS
- FORMER ACME STEEL SITE WITHIN PARK AREA

REFERENCES:

1. AERIAL IMAGE SOURCED FROM WWW.NEARMAP.COM DATED OCTOBER 19, 2021.

STATE OF NEW YORK
JAMES PERONTO
083991
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
DECEMBER 10, 2021

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING THE FINAL SITE SURVEY DRAWING TITLED "FINAL AS-BUILT COMFORT STATION SGT. DOUGHERTY PARK KINGS COUNTY STATE OF NEW YORK" DATED DECEMBER 18, 2018, THE ENVIRONMENTAL NOTICE SURVEY DRAWING TITLED "NYSDEC SITE: 224192 513 PORTER AVENUE BLOCK 2811 LOT 14" DATED MARCH 21, 2019 PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., AND OTHER DRAWING REFERENCES. UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

PROJECT NORTH

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

TITLE:
SITE AERIAL PHOTOGRAPH

DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	DECEMBER 2021
PROJ. NO.:	252356.0004.0000
FILE:	Fig.4 - Site Aerial Photograph_SMP.dwg

FIGURE 4

Version: 2017-10-21

APPENDIX A - PROPERTY DOCUMENTATION

SGT. WILLIAM DOUGHERTY
PLAYGROUND
CITY OF NEW YORK
KINGS COUNTY

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
CONVEYANCE MAP
PIN X731.43

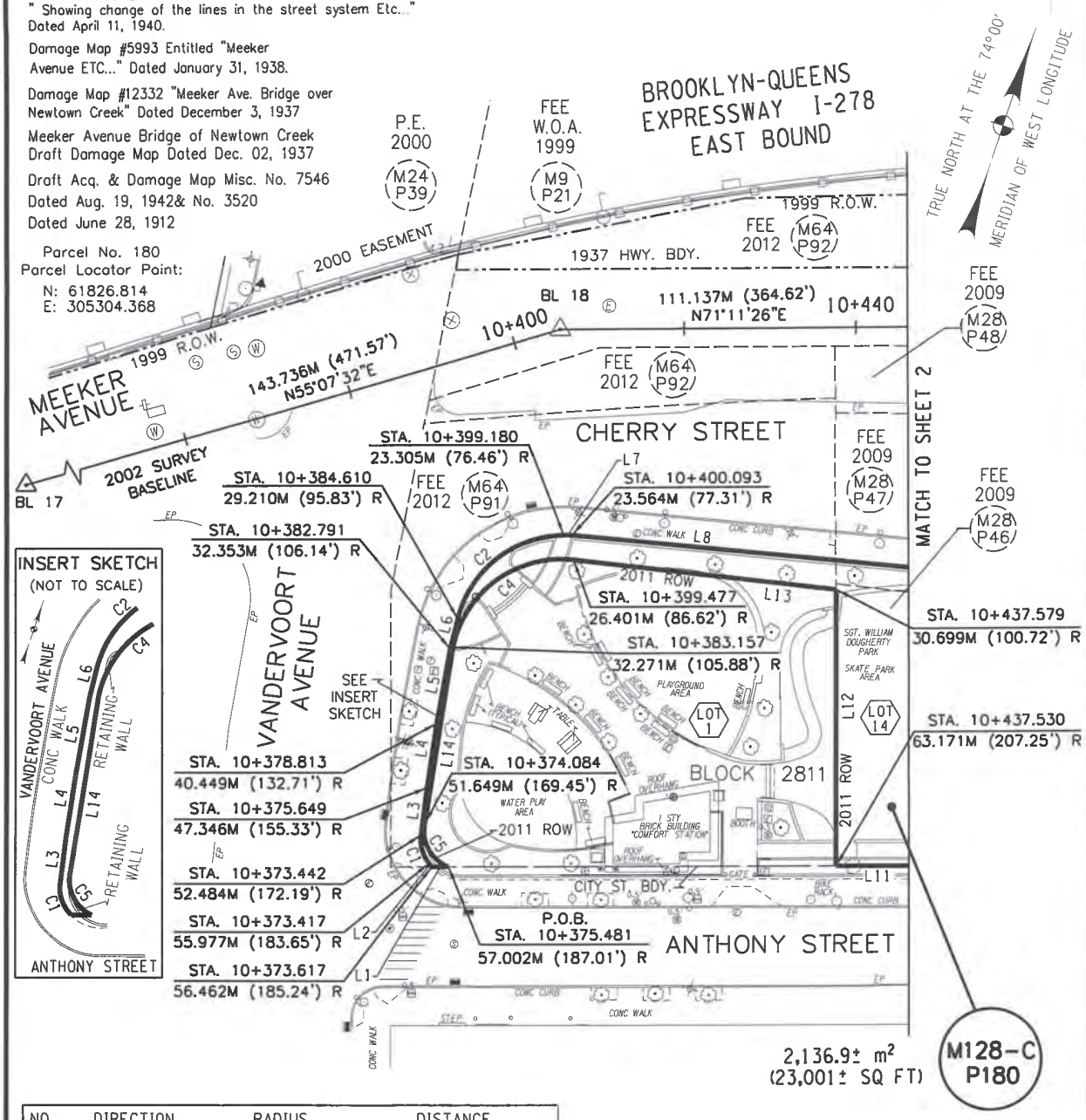
MAP NO. 128-C #4151
PARCEL NO. 180
SHEET 1 OF 5 SHEETS

MAP REFERENCE INFORMATION:
Kosciuszko Bridge Rehabilitation PIN X730.40
Dated Dec. 10, 1998
Brooklyn F.S. Map #4&5 Dated August 10, 1970
Alteration Map #L-881 Entitled
" Widening and Extending of Meeker Avenue"
Dated December 11, 1936.
Alteration Map #L-993 Entitled
" Showing change of the lines in the street system Etc..."
Dated April 11, 1940.
Damage Map #5993 Entitled "Meeker
Avenue ETC..." Dated January 31, 1938.
Damage Map #12332 "Meeker Ave. Bridge over
Newtown Creek" Dated December 3, 1937
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Draft Acq. & Damage Map Misc. No. 7546
Dated Aug. 19, 1942& No. 3520
Dated June 28, 1912

Parcel No. 180
Parcel Locator Point:
N: 61826.814
E: 305304.368

LANDS OF THE PEOPLE OF
THE STATE OF NEW YORK UNDER
PRESENT JURISDICTION OF THE
DEPARTMENT OF TRANSPORTATION

PARCEL SUMMARY:
Acquisition Type: CONVEYANCE
Portion of 2018 Tax Map
Ref. No. 69
Block 2811, Lots 1 & 14
Borough of Brooklyn
County of Kings
State of New York



NO.	DIRECTION	RADIUS	DISTANCE
L1	S71°16'35"W	———	1.940m(6.37')
L2	N57°18'21"W	———	0.524m(1.72')
C1	———	4.500m(14.76')	3.587m(11.77')
L3	N11°38'00"W	———	5.593m(18.35')
L4	N10°13'54"W	———	7.587m(24.89')
L5	N08°42'12"W	———	9.021m(29.60')
L6	N04°49'12"W	———	3.632m(11.92')
C2	———	12.800m(42.00')	16.928m(55.54')
L7	N70°57'14"E	———	0.949m(3.11')
L8	N77°02'16"E	———	86.514m(283.84')
L11	S71°16'35"W	———	60.960m(200.00')
L12	N18°43'25"W	———	32.473m(106.54')
L13	S77°59'06"W	———	30.774m(100.96')
C4	———	12.802m(42.00')	19.055m(62.52')
L14	S09°47'05"E	———	21.396m(70.20')
C5	———	4.572m(15.00')	5.942m(19.50')

CONVEYANCE

PROPERTY TO BE
QUITCLAIMED TO
CITY OF NEW YORK
DEPARTMENT OF PARKS
AND RECREATION

10 0 10 20 30 m

SCALE 1:500

ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

PREPARED BY R. DIEHL CHECKED BY D. NIEDBALSKI FINAL CHECK BY J. MALINOWSKI

FILE NAME = G:\mj318 - Kosciusko Bridge\ROW\Acq Maps\BROOKLYN\X73143.map_row.128C.dgn

SGT. WILLIAM DOUGHERTY
PLAYGROUND
CITY OF NEW YORK
KINGS COUNTY

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
CONVEYANCE MAP
PIN X731.43

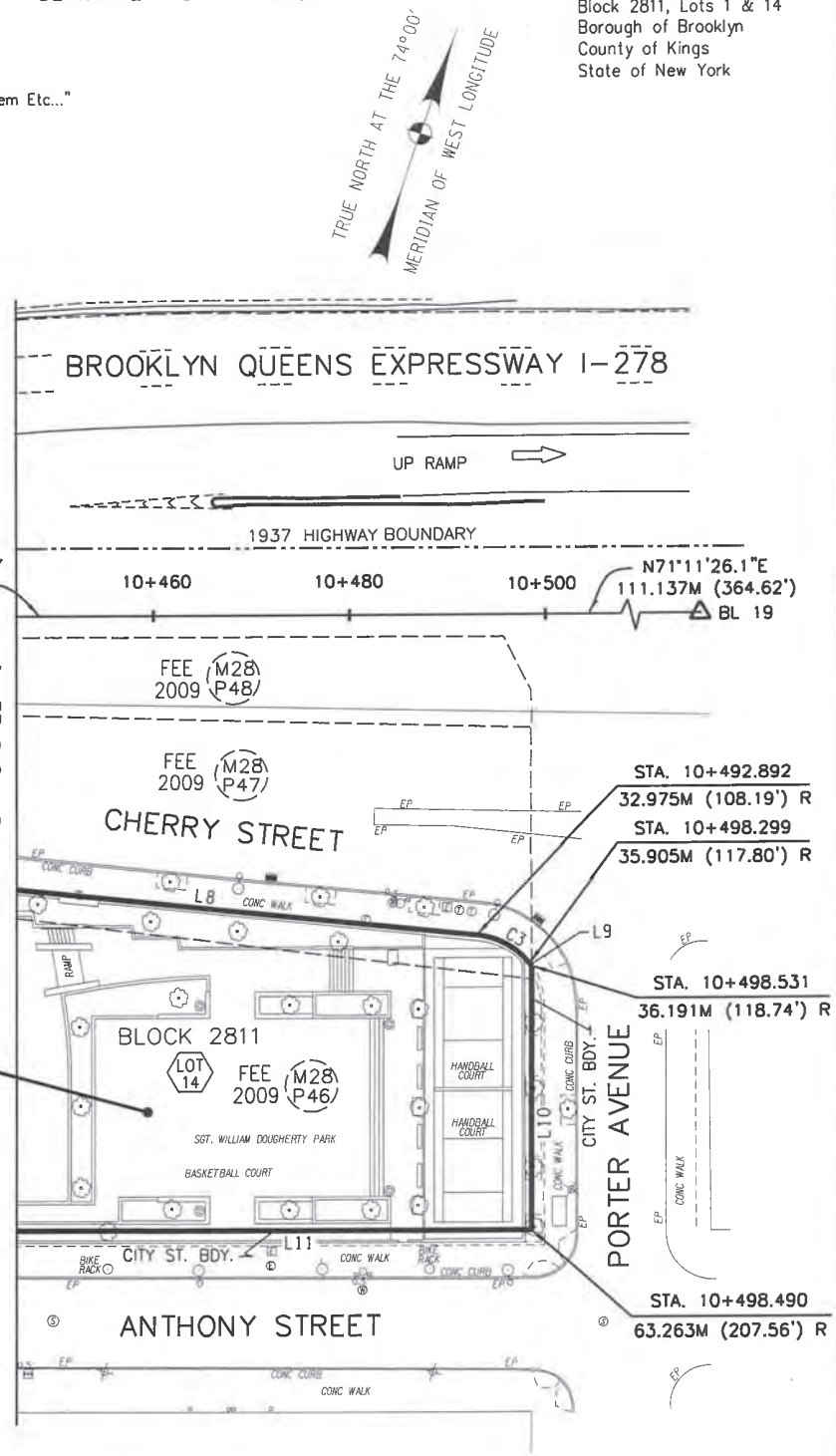
MAP NO. 128-C
PARCEL NO. 180
SHEET 2 OF 5 SHEETS

MAP REFERENCE INFORMATION:
Kosciuszko Bridge Rehabilitation PIN X730.40
Dated Dec. 10, 1998
Brooklyn F.S. Map #4&5 Dated August 10, 1970
Alteration Map #L-881 Entitled
" Widening and Extending of Meeker Avenue"
Dated December 11, 1936.
Alteration Map #L-993 Entitled
" Showing change of the lines in the street system Etc..."
Dated April 11, 1940.
Damage Map #5993 Entitled "Meeker
Avenue ETC..." Dated January 31, 1938.
Damage Map #12332 "Meeker Ave. Bridge over
Newtown Creek" Dated December 3, 1937
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Draft Acq. & Damage Map Misc. No. 7546
Dated Aug. 19, 1942& No. 3520
Dated June 28, 1912

Parcel No. 180
Parcel Locator Point:
N: 61826.814
E: 305304.368

LANDS OF THE PEOPLE OF
THE STATE OF NEW YORK UNDER
PRESENT JURISDICTION OF THE
DEPARTMENT OF TRANSPORTATION

PARCEL SUMMARY:
Acquisition Type: CONVEYANCE
Portion of 2018 Tax Map
Ref. No. 69
Block 2811, Lots 1 & 14
Borough of Brooklyn
County of Kings
State of New York



CONVEYANCE
M128-C
P180
2,136.9± m²
(23,001± SQ FT)

PROPERTY TO BE QUITCLAIMED TO CITY OF NEW YORK DEPARTMENT OF PARKS AND RECREATION

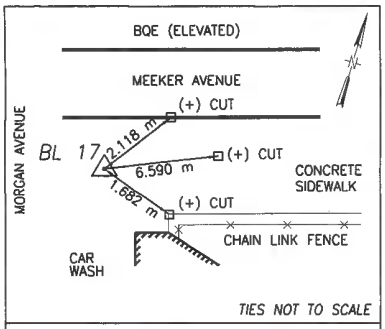
10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

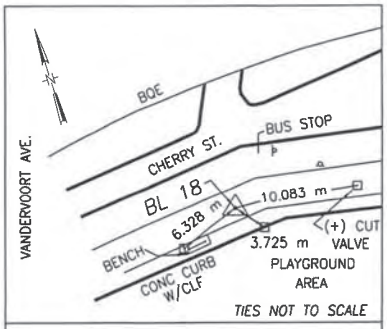
NO.	DIRECTION	RADIUS	DISTANCE
L8	N77°02'16"E	———	86.514m(283.84')
C3	———	8.000m(26.25')	6.313m(20.71')
L9	S57°45'05"E	———	0.368m(1.21')
L10	S18°43'25"E	———	27.071m(88.82')
L11	S71°16'35"W	———	60.960m(200.00')

PREPARED BY R. DIEHL CHECKED BY D. NIEDBALSKI FINAL CHECK BY J. MALINOWSKI

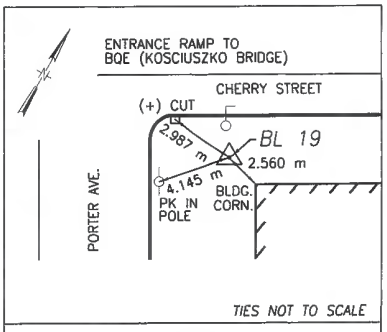
FILE NAME = G:\mj390 - Kosciusko Bridge\ROW\Acq Maps\BROOKLYN\X73143_map-row_128C.dgn



℄ STATION 10+261.839
BRASS DISC ON CONC. WALK APPROX. 121 FT +/- EAST OF MORGAN AVE. SOUTH SIDE OF MEEKER AVE.
NYSPCS LONG ISLAND ZONE NAD 83(96)
N 61808.601
E 305178.543



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(96)
N 61890.786
E 305296.465



℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(96)
N: 61926.619
E: 305401.667

All that piece or parcel of property hereinafter designated as Parcel No. 180, situate in the County of Kings, State of New York, as shown on the accompanying maps and described as follows:

Parcel No. 180

Beginning at a point (P.O.B.), said point being the intersection of the westerly boundary of Vandervoort Avenue and the northerly boundary of Anthony Street, as shown on the accompanying map, and being 57.002 meters (187.01 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+375.481;

1. Thence running westerly, S71°16'35"W, a distance of 1.940 meters (6.37 feet) to a point, said point being 56.462 meters (185.24 feet) distant right as measured at right angles from the Baseline at Station 10+373.617;

2. Thence running northwesterly, N57°18'21"W, a distance of 0.524 meter (1.72 feet) to a point, said point being 55.977 meters (183.65 feet) distant right as measured at right angles from the Baseline at Station 10+373.417;

3. Thence running northwesterly, along a curve to the right, having a radius of 4.500 meters (14.76 feet) a distance of 3.587 meters (11.77 feet) to a point, said point being 52.484 meters (172.19 feet) distant right as measured at right angles from the Baseline at Station 10+373.442;

4. Thence running northerly, N11°38'00"W, a distance of 5.593 meters (18.35 feet) to a point, said point being 47.346 meters (155.33 feet) distant right as measured at right angles from the Baseline at Station 10+375.649;

5. Thence running northerly, N10°13'54"W, a distance of 7.587 meters (24.89 feet) to a point, said point being 40.449 meters (132.71 feet) distant right as measured at right angles from the Baseline at Station 10+378.813;

6. Thence running northerly, N08°42'12"W, a distance of 9.021 meters (29.60 feet) to a point, said point being 32.353 meters (106.14 feet) distant right as measured at right angles from the Baseline at Station 10+382.791;

7. Thence running northerly, N04°49'12"W, a distance of 3.632 meters (11.92 feet) to a point, said point being 29.210 meters (95.83 feet) distant right as measured at right angles from the Baseline at Station 10+384.610;

8. Thence running northeasterly, along a curve to the right, having a radius of 12.800 meters (42.00 feet) a distance of 16.928 meters (55.54 feet) to a point, said point being 23.305 meters (76.46 feet) distant right as measured at right angles from the Baseline at Station 10+399.180;

9. Thence running northeasterly, N70°57'14"E, a distance of 0.949 meter (3.11 feet) to a point, said point being 23.564 meters (77.31 feet) distant right as measured at right angles from the Baseline at Station 10+400.093;

10. Thence running easterly, N77°02'16"E, a distance of 86.514 meters (283.84 feet) to a point, said point being 32.975 meters (108.19 feet) distant right as measured at right angles from the Baseline at Station 10+492.892;

11. Thence running easterly, along a curve to the right, having a radius of 8.000 meters (26.25 feet) a distance of 6.313 meters (20.71 feet) to a point, said point being 35.905 meters (117.80 feet) distant right as measured at right angles from the Baseline at Station 10+498.299;

12. Thence running southeasterly, S57°45'05"E, a distance of 0.368 meter(1.21 feet) to a point, said point being 36.191 meters (118.74 feet) distant right as measured at right angles from the Baseline at Station 10+498.531;

13. Thence running southerly, S18°43'25"E, a distance of 27.071 meters (88.82 feet) to a point, said point being 63.263 meters (207.56 feet) distant right as measured at right angles from the Baseline at Station 10+498.490;

FILE NAME = G:\mj390 - Kosciusko Bridge\ROW\Acq Maps\BROOKLYN\X73143_map_row_128C.dgn

14. Thence running westerly, S71°16'35"W, a distance of 60.960 meters (200.00 feet) to a point, said point being 63.171 meters (207.25 feet) distant right as measured at right angles from the Baseline at Station 10+437.530;

15. Thence running northerly, N18°43'25"W, a distance of 32.473 meters (106.54 feet) to a point, said point being 30.699 meters (100.72 feet) distant right as measured at right angles from the Baseline at Station 10+437.579;

16. Thence running westerly, S77°59'06"W, a distance of 30.774 meters (100.96 feet) to a point, said point being 26.401 meters (86.62 feet) distant right as measured at right angles from the Baseline at Station 10+399.477;

17. Thence running southwesterly, along a curve to the left, having a radius of 12.802 meters (42.00 feet) a distance of 19.055 meters (62.52 feet) to a point, said point being 32.271 meters (105.88 feet) distant right as measured at right angles from the Baseline at Station 10+383.157;

18. Thence running southerly, S09°47'05"E, a distance of 21.396 meters (70.20 feet) to a point, said point being 51.649 meters (169.45 feet) distant right as measured at right angles from the Baseline at Station 10+374.084;

19. Thence running southeasterly, along a curve to the left, having a radius of 4.572 meters (15.00 feet) a distance of 5.942 meters (19.50 feet) to the point of BEGINNING.

Being that property acquired in fee by the People of the State of New York by virtue of Parcel No. 46 of Map No. 28, which map was filed in the Office of the State Department of Transportation on September 2, 2009 and recorded or filed in the Office of the City Register of the City of New York on September 13, 2010.

Being a portion of that property acquired in fee by the People of the State of New York by virtue of Parcel No. 47 of Map No. 28, which map was filed in the Office of the State Department of Transportation on September 2, 2009 and recorded or filed in the Office of the City Register of the City of New York on September 13, 2010.

Being a portion of that property acquired in fee by the People of the State of New York by virtue of Parcel No. 91 of Map No. 64, which map was filed in the Office of the State Department of Transportation on March 2, 2012 and recorded or filed in the Office of the City Register of the City of New York on May 1, 2012.

Containing 2,136.863± square meters (23,000.91± square feet) or 0.2137± hectares (0.5280± acres).

The above mentioned survey baseline is a portion of the 2002 survey baseline (NAD 83/96) for the Kosciuszko Bridge Project as shown on a map and plan on file in the Office of the State Department of Transportation and described as follows:

BEGINNING at Station 10+000; thence N34°02'25.1"E, a distance of 126.225 meters (414.12 feet) to Station 10+126.225; thence N59°21'10.6"E, a distance of 135.614 meters (444.93 feet) to Station 10+261.839; thence N55°07'32.4"E, a distance of 143.736 meters (471.57 feet) to Station 10+405.575; thence N71°11'26.1"E, a distance of 111.137 meters (364.62 feet) to Station 10+516.712; thence N66°00'27.9"E, a distance of 123.498 meters (405.18 feet) to Station 10+640.211; thence N75°13'15.9"E, a distance of 158.152 meters (518.87 feet) to Station 10+798.363; thence N65°09'02.3"E, a distance of 139.153 meters (456.54 feet) to Station 10+937.516; thence N25°18'37.7"W, a distance of 136.381 meters (447.44 feet) to Station 11+073.897; thence N14°32'03.9"W, a distance of 140.898 meters (462.26 feet) to Station 11+214.795; thence N48°49'39.9"E, a distance of 201.062 meters (659.65 feet) to Station 11+415.857; thence N76°39'17.5"E, a distance of 100.036 meters (328.20 feet) to Station 11+515.893; thence N79°55'15.1"E, a distance of 108.092 meters (354.63 feet) to Station 11+623.985; thence N42°53'07.0"E, a distance of 189.402 meters (621.40 feet) to Station 11+813.387; thence N24°39'57.0"E, a distance of 198.402 meters (650.92 feet) to Station 12+011.789; thence N23°27'01.6"E, a distance of 156.445 meters (513.27 feet) to Station 12+168.234; thence N34°47'31.5"E, a distance of 157.648 meters (517.22 feet) to Station 12+325.882; thence N27°38'14.0"W, a distance of 79.947 meters (262.29 feet) to Station 12+405.829; thence N67°32'38.6"W, a distance of 114.424 meters (375.41 feet) to Station 12+520.253; thence N48°04'04.9"W, a distance of 143.637 meters (471.25 feet) to Station 12+663.890.

All bearings and distances are referenced to the New York State Plane Coordinate System, NAD 1983-96, Long Island Zone.

All bearings referred to True North at the 74°-00'-00" Meridian of West Longitude.

SGT. WILLIAM DOUGHERTY
PLAYGROUND
CITY OF NEW YORK
KINGS COUNTY

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
CONVEYANCE MAP
PIN X731.43

MAP NO. 128-C
PARCEL NO. 180
SHEET 5 OF 5 SHEETS

I hereby certify that the property described and mapped above is not necessary for highway purposes, and the conveyance thereof is recommended.

Sign Here

Date MARCH 28, 2019

Luis E. Calderon, P.E.
Acting Director of Engineering
for the Regional Director of
Transportation, Region No. 11

STATE OF NEW YORK
JOSEPH G. MALINOWSKI
050314
LICENSED LAND SURVEYOR

Unauthorized alteration of a survey map bearing a licensed land surveyor's seal is a violation of the New York State Education Law.

I hereby certify that this map was prepared in accordance with current NYSDOT policies, standards and procedures.

M.J. Engineering and Land Surveying, P.C.

Date MARCH 25th 2019

Joseph G. Malinowski - Land Surveyor
P.L.S. License No. 050314

PROPERTY TO BE QUITCLAIMED
TO CITY OF NEW YORK
DEPARTMENT OF PARKS
AND RECREATION

Map No. 128-C
Parcel No. 180

Description and map of property which was acquired by appropriation, as set forth above, pursuant to Section 30 of the Highway Law and Eminent Domain Procedure Law, which property the Commissioner of Transportation has determined may be quitclaimed in the name of the People of the State of New York on terms beneficial to the state.

Pursuant to the authority delegated to me by Official Order of the Commissioner of Transportation, this conveyance map is hereby approved and filed in the main office of the New York State Department of Transportation.

Date _____

_____
Office of Right of Way

I have compared the foregoing copy of the map with the original thereof, as filed in the Office of the Department of Transportation, and I do hereby certify the same to be a true and correct copy of the original and of the whole thereof.

_____
Office of Right of Way

PREPARED BY R. DIEHL CHECKED BY O. NIEDBALSKI FINAL CHECK BY J. MALINOWSKI

FILE NAME = G:\mj390 - Kosciusko Bridge\ROW\Acq Maps\BROOKLYN\X73143_map_row_128C.dgn

SGT. WILLIAM DOUGHERTY
PLAYGROUND
CITY OF NEW YORK
KINGS COUNTY

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
CONVEYANCE MAP
PIN X731.43

#4151

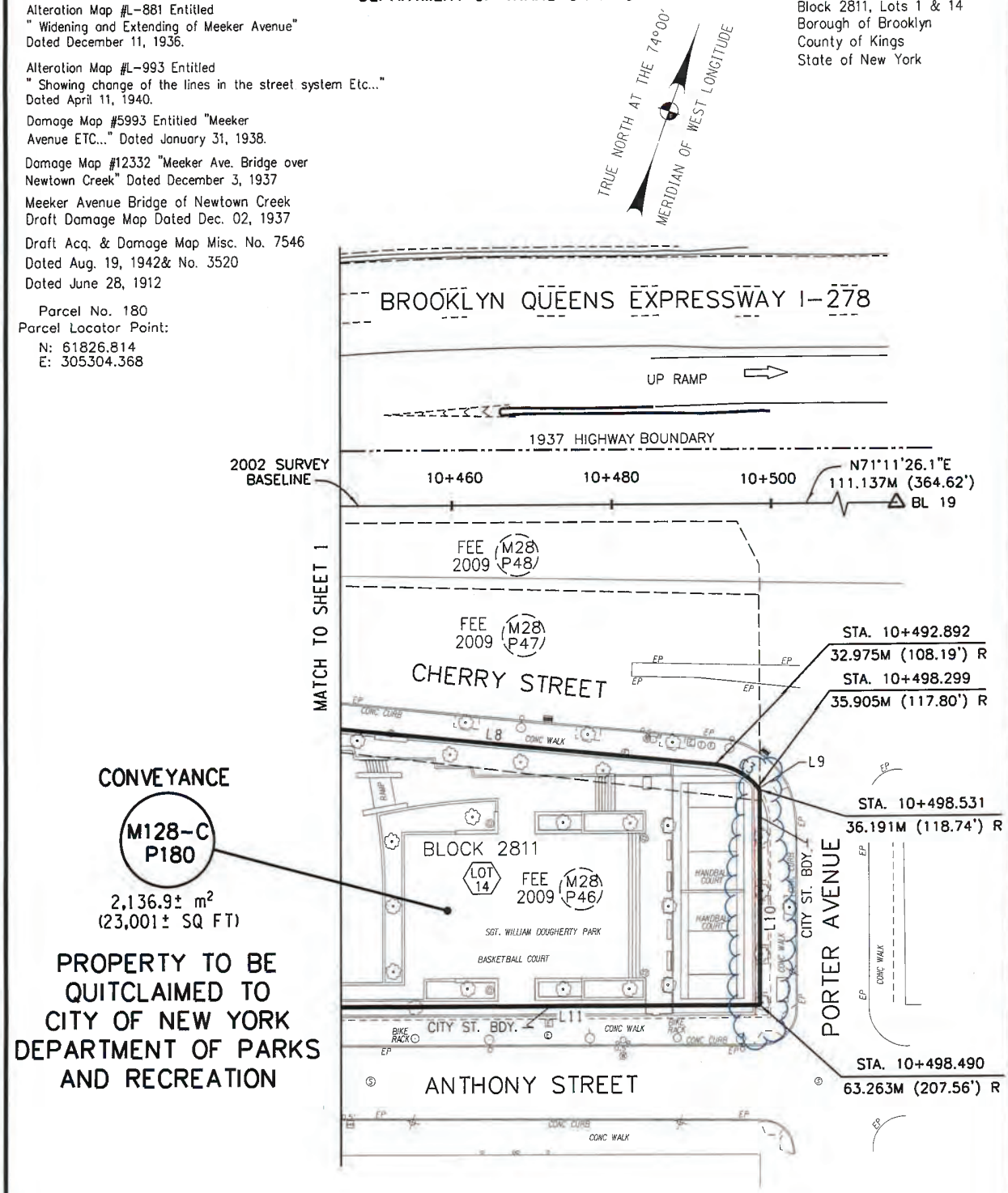
MAP NO. 128-C
PARCEL NO. 180
SHEET 2 OF 5 SHEETS

MAP REFERENCE INFORMATION:
Kosciuszko Bridge Rehabilitation PIN X730.40
Dated Dec. 10, 1998
Brooklyn F.S. Map #4&5 Dated August 10, 1970
Alteration Map #L-881 Entitled
" Widening and Extending of Meeker Avenue"
Dated December 11, 1936.
Alteration Map #L-993 Entitled
" Showing change of the lines in the street system Etc..."
Dated April 11, 1940.
Damage Map #5993 Entitled "Meeker
Avenue ETC..." Dated January 31, 1938.
Damage Map #12332 "Meeker Ave. Bridge over
Newtown Creek" Dated December 3, 1937
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Draft Acq. & Damage Map Misc. No. 7546
Dated Aug. 19, 1942& No. 3520
Dated June 28, 1912

Parcel No. 180
Parcel Locator Point:
N: 61826.814
E: 305304.368

LANDS OF THE PEOPLE OF
THE STATE OF NEW YORK UNDER
PRESENT JURISDICTION OF THE
DEPARTMENT OF TRANSPORTATION

PARCEL SUMMARY:
Acquisition Type: CONVEYANCE
Portion of 2018 Tax Map
Ref. No. 69
Block 2811, Lots 1 & 14
Borough of Brooklyn
County of Kings
State of New York



PROPERTY TO BE
QUITCLAIMED TO
CITY OF NEW YORK
DEPARTMENT OF PARKS
AND RECREATION

10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

NO.	DIRECTION	RADIUS	DISTANCE
L8	N77°02'16"E	———	86.514m(283.84')
C3	———	8.000m(26.25')	6.313m(20.71')
L9	S57°45'05"E	———	0.368m(1.21')
L10	S18°43'25"E	———	27.071m(88.82')
L11	S71°16'35"W	———	60.960m(200.00')

PREPARED BY R. DIEHL CHECKED BY D. NIEDBALSKI FINAL CHECK BY J. MALINOWSKI

FILE NAME = G:\mj390 - Kosciusko Bridge\ROW\Acq Maps\BROOKLYN\X73143_map_row_128C.dgn

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2010082301083001002E013A

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2010082301083001 Document Date: 03-09-2010 Preparation Date: 09-13-2010
Document Type: NOTICE OF APPROPRIATION
Document Page Count: 10

PRESENTER:	**RETURN TO:**
NEW YORK STATE DEPARTMENT OF TRANSPORTATION 47-40 21ST STREET REAL ESTATE ROOM 317 LONG ISLAND CITY, NY 11101 718-482-6435	NEW YORK STATE DEPARTMENT OF TRANSPORTATION 47-40 21ST STREET REAL ESTATE ROOM 317 LONG ISLAND CITY, NY 11101 718-482-6435

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	2811	14	Entire Lot	513 PORTER AVENUE

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN_____ *or* Document ID_____ *or* _____ Year____ Reel ___ Page____ *or* File Number_____

PARTIES

PARTY ONE:	**PARTY TWO:**
513 PORTER AVENUE LLC 203 MESEROLE AVENUE BROOKLYN, NY 11222	NEW YORK STATE DEPARTMENT OF TRANSPORTATION 47-40 21ST STREET LONG ISLAND CITY, NY 11101

FEES AND TAXES

Mortgage		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	EXEMPT
Affidavit Fee:	$	0.00

Filing Fee:	$	0.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK

Recorded/Filed 09-13-2010 12:49
City Register File No.(CRFN):
2010000307914

City Register Official Signature

(SECTION A)

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
REAL ESTATE DIVISION

APPROPRIATION OF PROPERTY
BY THE PEOPLE OF THE STATE OF NEW YORK

PROJECT:	MAP NOS.:	PARCEL NOS.:
	28	46,47,48

KOSCIUSZKO BRIDGE PROJECT
KINGS COUNTY
CITY OF NEW YORK

NOTICE OF APPROPRIATION

Pursuant to the statute set forth in the above maps
TO:

1. 513 PORTER AVENUE LLC - 203 MESEROLE AVE., BROOKLYN, NY
2. THE BANK OF NEW YORK - 101 BARCLAY ST., NEW YORK, NY 10286
3. NEW YORK COMMUNITY BANK - ONE JERICHO PLAZA, JERICHO, NY 11753
4. ACCURATE GENERAL CONSTRUCTION, INC. - 513 PORTER AVE., BROOKLYN, NY 11222
5. CCR SHEET METAL, INC. - 513 PORTER AVE., BROOKLYN,K NY 11222
6. LEE'S STONE SUPPLY, INC. - 66 CHERRY ST., BROOKLYN, NY 11222
7. SUNNY LUMBER & HARDWARE, INC. - 26 CHERRY ST., BROOKLYN, NY 11222
8. VIIKING OIL CORP. - 22 CHERRY ST., BROOKLYN, NY 11222

TAKE NOTICE that on the **2ND** day of **SEPTEMBER 2009** there was filed in the office of the Department of Transportation a certified copy of each of the above designated maps of property; and that on the day of , there was filed in the office of the city register of the county, in which such property is situated, a copy of each such maps.

TAKE FURTHER NOTICE that title to the property, easements, interests or rights set forth in said maps vested in the People of the State of New York upon such filing in the office of said city register.

COMMISSIONER OF TRANSPORTATION
OF THE STATE OF NEW YORK

Dated:

By: _____
Director, Real Estate

3/10/2010

CITY REGISTER'S CERTIFICATE OF FILING OF MAPS

State of New York) SS.:
County of **KINGS**)

I hereby certify that on the _____ day of _____, 20_____, the Commissioner of Transportation caused a copy of each of the maps referred to in the above notice of appropriation, to be filed in this office.

(SEAL)

Dated: _____ _____
City Register

CITY REGISTER'S CERTIFICATE OF FILING AND RECORDING OF NOTICE OF APPROPRIATION

State of New York)
County of **KINGS**) SS.:

I hereby certify that on the _____ day of _____, 20_____, the Commissioner of Transportation caused the above notice of appropriation to be filed and recorded in this office.

(SEAL)

Dated: _____ _____
City Register

(SECTION A)

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
REAL ESTATE DIVISION

APPROPRIATION OF PROPERTY
BY THE PEOPLE OF THE STATE OF NEW YORK

PROJECT:	MAP NOS.:	PARCEL NOS.:
	28	46,47,48

KOSCIUSZKO BRIDGE PROJECT
KINGS COUNTY
CITY OF NEW YORK

NOTICE OF APPROPRIATION

Pursuant to the statute set forth in the above maps
TO:
1. THE CITY OF NEW YORK - CITY HALL, NEW YORK, NY
2.
3.
4.
5.
6.
7.
8.

TAKE NOTICE that on the **2ND** day of **SEPTEMBER 2009** there was filed in the office of the Department of Transportation a certified copy of each of the above designated maps of property; and that on the day of , there was filed in the office of the city register of the county, in which such property is situated, a copy of each such maps.

TAKE FURTHER NOTICE that title to the property, easements, interests or rights set forth in said maps vested in the People of the State of New York upon such filing in the office of said city register.

COMMISSIONER OF TRANSPORTATION
OF THE STATE OF NEW YORK

Dated:

By:
Director - Real Estate

3/10/2010

CITY REGISTER'S CERTIFICATE OF FILING OF MAPS

State of New York) SS.:
County of **KINGS**)

I hereby certify that on the _____ day of _____, 20_____, the Commissioner of Transportation caused a copy of each of the maps referred to in the above notice of appropriation, to be filed in this office.

(SEAL)

Dated: _____ _____
City Register

CITY REGISTER'S CERTIFICATE OF FILING AND RECORDING OF NOTICE OF APPROPRIATION

State of New York)
County of **KINGS**) SS.:

I hereby certify that on the _____ day of _____, 20_____, the Commissioner of Transportation caused the above notice of appropriation to be filed and recorded in this office.

(SEAL)

Dated: _____ _____
City Register

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

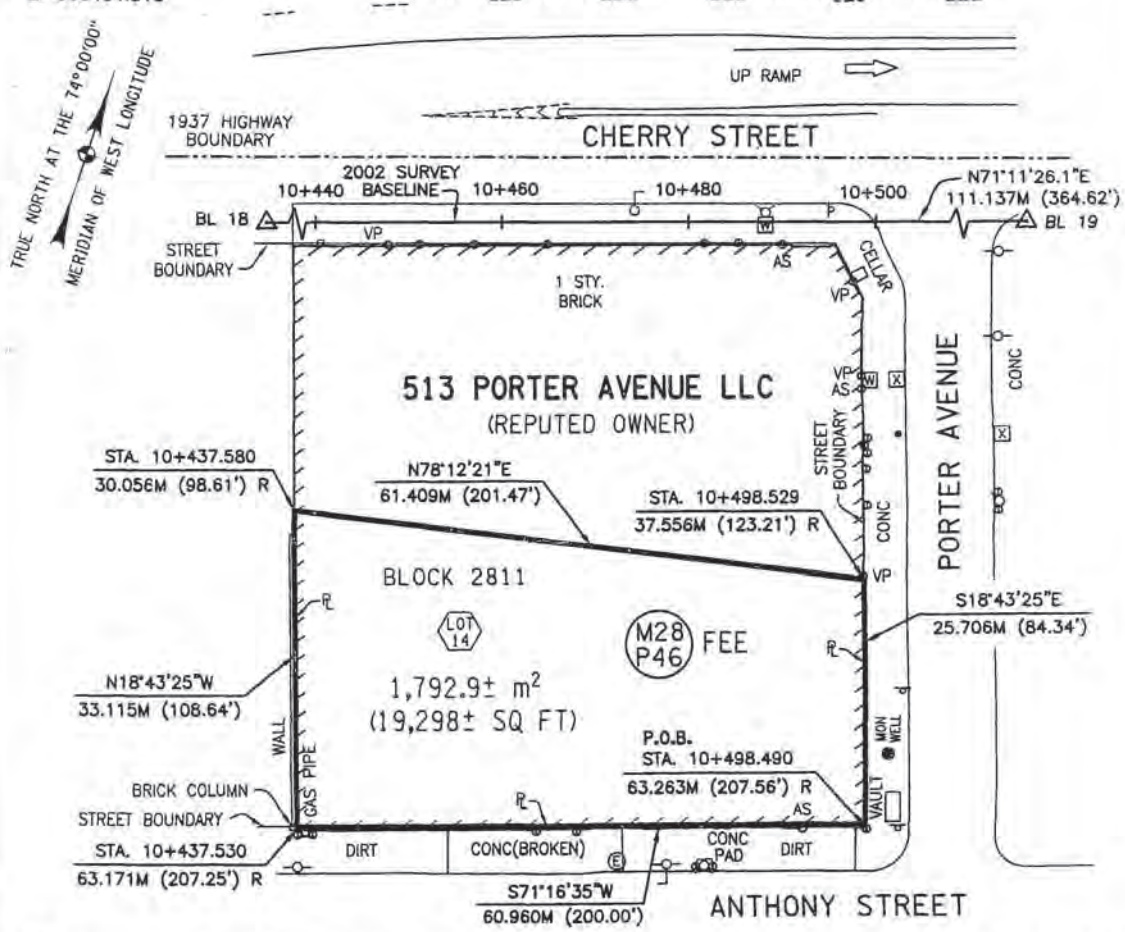
MAP NO. 28
PARCEL NOS. 46-48
SHEET 1 OF 6 SHEETS

MAP REFERENCE INFORMATION:
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Brooklyn F. S. Maps Nos. 4 & 5 Dated Aug. 10, 1970
Draft Acq. & Damage Map Misc. No. 5993
Dated May 5, 1939 & No. W-91 Dated March 10, 1947
Draft Acq. & Damage Map Misc. No. 7546 Dated Aug. 19, 1942
& No. 3520 Dated June 28, 1912

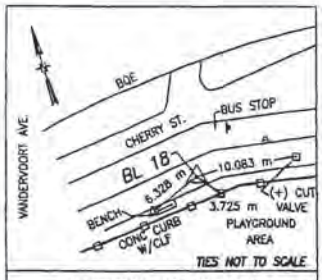
513 PORTER AVENUE LLC
(REPUTED OWNER)
CCD L 4440 P 1224
TRN 18

PARCEL SUMMARY:
Acquisition Type: FEE
Portion of 2008 Tax Map
Ref. No. 69
Block 2811, Lot 14
Borough of Brooklyn
County of Kings
State of New York

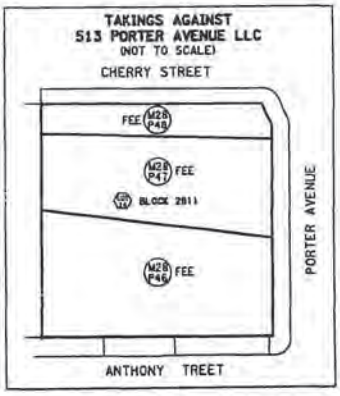
Parcel Locator Point:
Parcel No. 46
N: 61860.860
E: 305404.815

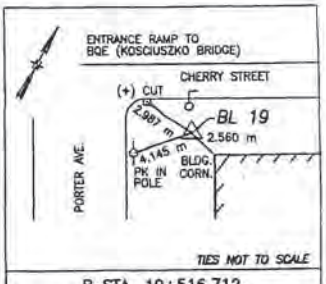


NOTE:
THE PROPERTY LINES SHOWN HEREON WERE PLOTTED USING RECORD DEED DATA. THE TAX LOT LINES SHOWN HEREON WERE PLOTTED USING 2008 TAX MAP DATA. IN SOME CASES TAX LOT LINES ARE NOT COINCIDENTAL WITH RECORD DEED PROPERTY LINES. IN THESE CASES, THE PROPERTY LINES AND THE TAX LOT LINES ARE LABELED INDEPENDENTLY.



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(96)
N 61890.786
E 305296.465





℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(96)
N: 61926.619
E: 305401.667

10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

FILE NAME = T2N6B

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

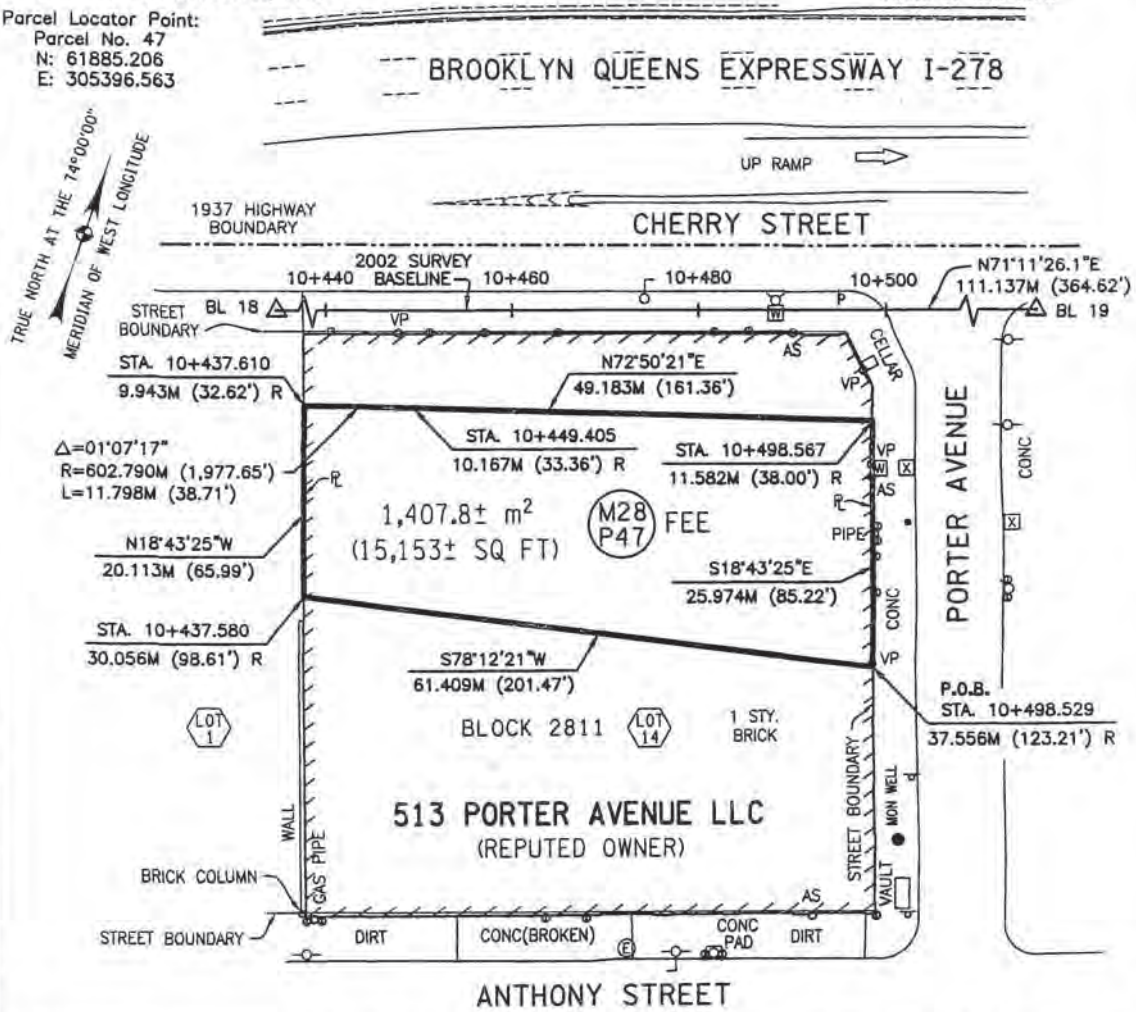
MAP NO. 28
PARCEL NOS. 46-48
SHEET 2 OF 6 SHEETS

MAP REFERENCE INFORMATION:
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Brooklyn F. S. Maps Nos. 4 & 5 Dated Aug. 10, 1970 CCD L 4440 P 1224
Draft Acq. & Damage Map Misc. No. 5993 TRN 18
Dated May 5, 1939 & No. W-91 Dated March 10, 1947
Draft Acq. & Damage Map Misc. No. 7546 Dated Aug. 19, 1942
& No. 3520 Dated June 28, 1912

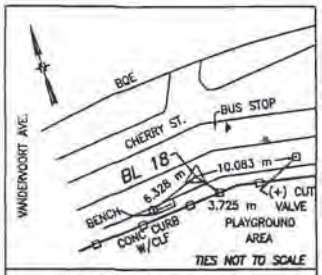
513 PORTER AVENUE LLC
(REPUTED OWNER)

PARCEL SUMMARY:
Acquisition Type: FEE
Portion of 2008 Tax Map
Ref. No. 69
Block 2811, Lot 14
Borough of Brooklyn
County of Kings
State of New York

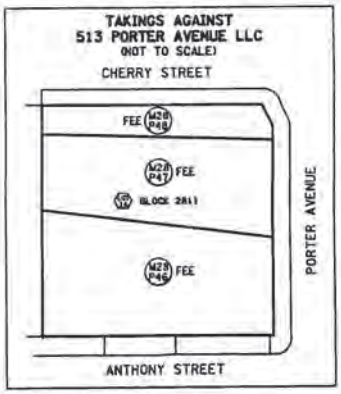
Parcel Locator Point:
Parcel No. 47
N: 61885.206
E: 305396.563

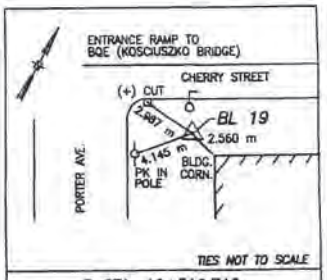


NOTE:
THE PROPERTY LINES SHOWN HEREON WERE PLOTTED USING RECORD DEED DATA. THE TAX LOT LINES SHOWN HEREON WERE PLOTTED USING 2008 TAX MAP DATA. IN SOME CASES TAX LOT LINES ARE NOT COINCIDENTAL WITH RECORD DEED PROPERTY LINES. IN THESE CASES, THE PROPERTY LINES AND THE TAX LOT LINES ARE LABELED INDEPENDENTLY.



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(86)
N 61890.786
E 305296.465





℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(86)
N: 61926.619
E: 305401.867

10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

FILE NAME = TRN18

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

MAP NO. 28
PARCEL NOS. 46-48
SHEET 3 OF 6 SHEETS

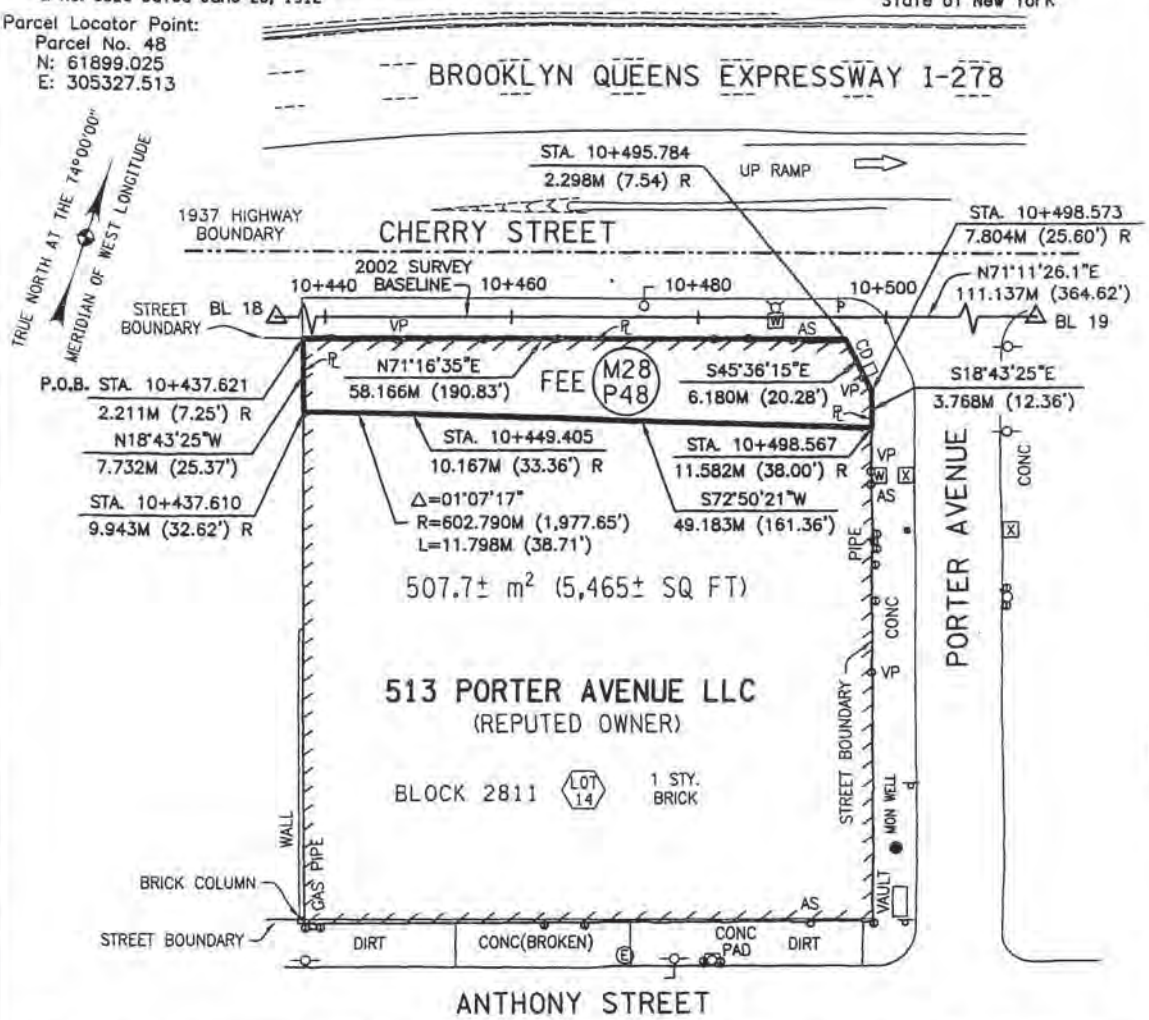
MAP REFERENCE INFORMATION:
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Brooklyn F. S. Maps Nos. 4 & 5 Dated Aug. 10, 1970
Draft Acq. & Damage Map Misc. No. 5993
Dated May 5, 1939 & No. W-91 Dated March 10, 1947
Draft Acq. & Damage Map Misc. No. 7546 Dated Aug. 19, 1942
& No. 3520 Dated June 28, 1912

513 PORTER AVENUE LLC
(REPUTED OWNER)

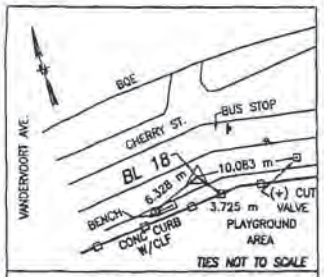
CCD L 4440 P 1224
TRN 18

PARCEL SUMMARY:
Acquisition Type: FEE
Portion of 2008 Tax Map
Ref. No. 69
Block 2811, Lot 14
Borough of Brooklyn
County of Kings
State of New York

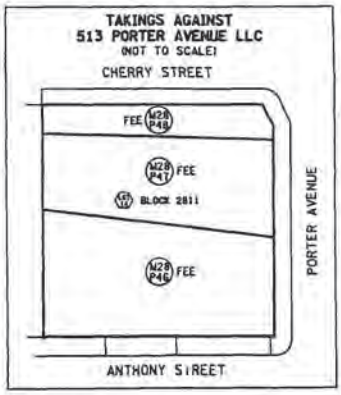
Parcel Locator Point:
Parcel No. 48
N: 61899.025
E: 305327.513

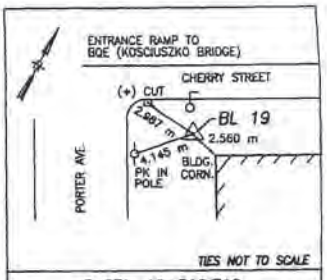


NOTE:
THE PROPERTY LINES SHOWN HEREON WERE PLOTTED USING RECORD DEED DATA. THE TAX LOT LINES SHOWN HEREON WERE PLOTTED USING 2008 TAX MAP DATA. IN SOME CASES TAX LOT LINES ARE NOT COINCIDENTAL WITH RECORD DEED PROPERTY LINES. IN THESE CASES, THE PROPERTY LINES AND THE TAX LOT LINES ARE LABELED INDEPENDENTLY.



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(96)
N 61890.786
E 305298.465





℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(96)
N: 61928.819
E: 305401.867

10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

FILE NAME = TRN18

All those pieces or parcels of property hereinafter designated as Parcel Nos. 46, 47 and 48, situate in the County of Kings, State of New York, as shown on the accompanying maps and described as follows:

Parcel No. 46

Beginning at a point (P.O.B.), said point being the intersection of the westerly boundary of Porter Avenue and the northerly boundary of Anthony Street, as shown on the accompanying map, and being 63.263 meters (207.56 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+498.490;

1. Thence running southwesterly, S71°16'35"W, a distance of 60.960 meters (200.00 feet) to a point, said point being 63.171 meters (207.25 feet) distant right as measured at right angles from the Baseline at Station 10+437.530;

2. Thence running northwesterly, N18°43'25"W, a distance of 33.115 meters (108.64 feet) to a point, said point being 30.056 meters (98.61 feet) distant right as measured at right angles from the Baseline at Station 10+437.580;

3. Thence running northeasterly, N78°12'21"E, a distance of 61.409 meters (201.47 feet) to a point, said point being 37.556 meters (123.21 feet) distant right as measured at right angles from the Baseline at Station 10+498.529;

4. Thence running southeasterly, S18°43'25"E, a distance of 25.706 meters (84.34 feet) to the point of BEGINNING.

Containing 1,792.887± square meters (19,298.40± square feet) or 0.1793± hectares (0.4430± acres).

Parcel No. 47

Beginning at a point (P.O.B.), said point being on the westerly boundary of Porter Avenue, as shown on the accompanying map, and being 37.556 meters (123.21 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+498.529;

1. Thence running southwesterly, S78°12'21"W, a distance of 61.409 meters (201.47 feet) to a point, said point being 30.056 meters (98.61 feet) distant right as measured at right angles from the Baseline at Station 10+437.580;

2. Thence running northwesterly, N18°43'25"W, a distance of 20.113 meters (65.99 feet) to a point, said point being 9.943 meters (32.62 feet) distant right as measured at right angles from the Baseline at Station 10+437.610;

3. Thence running northeasterly, along a curve bearing to the right, having a radius of 602.790 meters (1,977.65 feet) a distance of 11.798 meters (38.71 feet) to a point, said point being 10.167 meters (33.36 feet) distant right as measured at right angles from the Baseline at Station 10+449.405;

4. Thence running northeasterly, N72°50'21"E, a distance of 49.183 meters (161.36 feet) to a point, said point being 11.582 meters (38.00 feet) distant right as measured from the Baseline at Station 10+498.567;

5. Thence running southeasterly, S18°43'25"E, a distance of 25.974 meters (85.22 feet) to the point of BEGINNING.

Containing 1,407.808± square meters (15,153.46± square feet) or 0.1408± hectares (0.3479± acres).

Parcel No. 48

Beginning at a point (P.O.B.), said point being on the southerly boundary of Cherry Street, as shown on the accompanying map, and being 2.211 meters (7.25 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+437.621;

1. Thence running northeasterly, N71°16'35"E, a distance of 58.166 meters (190.83 feet) to a point, said point being 2.298 meters (7.54 feet) distant right as measured at right angles from the Baseline at Station 10+495.784;

2. Thence running southeasterly, S45°36'15"E, a distance of 6.180 meters (20.28 feet) to a point, said point being 7.804 meters (25.60 feet) distant right as measured at right angles from the Baseline at Station 10+498.573;

3. Thence running southeasterly, S18°43'25"E, a distance of 3.768 meters (12.36 feet) to a point, said point being 11.582 meters (38.00 feet) distant right as measured at right angles from the Baseline at Station 10+498.567;

FILE NAME = TRNIB

Parcel No. 48(Continued)

4. Thence running southwesterly, S72°50'21"W, a distance of 49.183 meters (161.36 feet) to a point, said point being 10.167 meters (33.36 feet) distant right as measured from the Baseline at Station 10+449.405;

5. Thence running southwesterly, along a curve bearing to the left, having a radius of 602.790 meters (1,977.65 feet) a distance of 11.798 meters (38.71 feet) to a point, said point being 9.943 meters (32.62 feet) distant right as measured at right angles from the Baseline at Station 10+437.610;

6. Thence running northwesterly, N18°43'25"W, a distance of 7.732 meters (25.37 feet) to the point of BEGINNING.

Containing 507.746± square meters (5,465.31± square feet) or 0.0508± hectares (0.1255± acres).

The above mentioned survey baseline is a portion of the 2002 survey baseline (NAD 83/96) for the Kosciuszko Bridge Project as shown on a map and plan on file in the Office of the State Department of Transportation and described as follows:

BEGINNING at Station 10+000; thence N34°02'25.1"E, a distance of 126.225 meters (414.12 feet) to Station 10+126.225; thence N59°21'10.6"E, a distance of 135.614 meters (444.93 feet) to Station 10+261.839; thence N55°07'32.4"E, a distance of 143.736 meters (471.57 feet) to Station 10+405.575; thence N71°11'26.1"E, a distance of 111.137 meters (364.62 feet) to Station 10+516.712; thence N66°00'27.9"E, a distance of 123.498 meters (405.18 feet) to Station 10+640.211; thence N75°13'15.9"E, a distance of 158.152 meters (518.87 feet) to Station 10+798.363; thence N65°09'02.3"E, a distance of 139.153 meters (456.54 feet) to Station 10+937.516; thence N25°18'37.7"W, a distance of 136.381 meters (447.44 feet) to Station 11+073.897; thence N14°32'03.9"W, a distance of 140.898 meters (462.26 feet) to Station 11+214.795; thence N48°49'39.9"E, a distance of 201.062 meters (659.65 feet) to Station 11+415.857; thence N76°39'17.5"E, a distance of 100.036 meters (328.20 feet) to Station 11+515.893; thence N79°55'15.1"E, a distance of 108.092 meters (354.63 feet) to Station 11+623.985; thence N42°53'07.0"E, a distance of 189.402 meters (621.40 feet) to Station 11+813.387; thence N24°39'57.0"E, a distance of 198.402 meters (650.92 feet) to Station 12+011.789; thence N23°27'01.6"E, a distance of 156.445 meters (513.27 feet) to Station 12+168.234; thence N34°47'31.5"E, a distance of 157.648 meters (517.22 feet) to Station 12+325.882; thence N27°38'14.0"W, a distance of 79.947 meters (262.29 feet) to Station 12+405.829; thence N67°32'38.6"W, a distance of 114.424 meters (375.41 feet) to Station 12+520.253; thence N48°04'04.9"W, a distance of 143.637 meters (471.25 feet) to Station 12+663.890.

All bearings and distances are referenced to the New York State Plane Coordinate System, NAD 1983-96, Long Island Zone.

All bearings referred to True North at the 74°-00'-00" Meridian of West Longitude.

FEE TAKINGS

Map No.	Parcel No.	Reputed Owner	Square Meters (+/-)	Hectares (+/-)	Square Feet (+/-)	Acres (+/-)
28	46	513 PORTER AVENUE LLC	1,792.887	0.1793	19,298.40	0.443
28	47	513 PORTER AVENUE LLC	1,407.808	0.1408	15,153.46	0.348
28	48	513 PORTER AVENUE LLC	507.746	0.0508	5,465.31	0.125

TOTAL FEE AREA = 3,708.441± Square Meters
(39,917.17± Square Feet)

FILE NAME = TRNAB

"Unauthorized alteration of a survey map bearing a licensed land surveyor's seal is a violation of section 7209 of the New York Education Law."

I hereby certify that the property mapped above is necessary for this project, and the acquisition thereof is recommended.

Date 4/2/09

Sonia A. Pichardo, PE Regional Design Engineer
For The Regional Director of Transportation
Region 11

I hereby certify that this map was prepared in accordance with current NYSDOT policies, standards and procedures.

Date 4/1/09

Kenneth Stigner Surveyor
NY P.L.S. License No. 49824
Stantec Consulting Services, Inc.

513 PORTER AVENUE LLC
(REPUTED OWNER)

Map No. 28
Parcel Nos. 46-48

Total FEE Area = 3,708.4± Square Meters
(39,917± Square Feet)

Map of property showing Parcel Nos. 46, 47 and 48, each of which the Commissioner of Transportation deems necessary to be acquired by appropriation in the name of the People of the State of New York in fee, for purposes connected with the highway system of the State of New York pursuant to Section 30 of the Highway Law and the Eminent Domain Procedure Law.

There is excepted from this appropriation all the right, title and interest, if any, of the United States of America, in or to said property.

Pursuant to the statute(s) set forth above and the authority delegated to me by Official Order of the Commissioner of Transportation, this acquisition map is hereby approved and filed in the main office of the New York State Department of Transportation.

Date September 21, 2009

Mary A. Marocco
Director, Real Estate Division

I have compared the foregoing copy of the map with the original thereof, as filed in the Office of the Department of Transportation, and I do hereby certify the same to be a true and correct copy of the original and of the whole thereof.

Real Estate Division

FILE NAME = TRMIB

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

2010082301083001002SCFBB

SUPPORTING DOCUMENT COVER PAGE

Document ID: 2010082301083001 Document Date: 03-09-2010 Preparation Date: 09-13-2010
Document Type: NOTICE OF APPROPRIATION

ASSOCIATED TAX FORM ID: 2010082300349

SUPPORTING DOCUMENTS SUBMITTED:

	Page Count
RECORDING FEE EXEMPTION DOCUMENTATION	1
RP - 5217 REAL PROPERTY TRANSFER REPORT	1

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER			BUYER'S ATTORNEY	
BUYER SIGNATURE		DATE	LAST NAME	FIRST NAME
STREET NUMBER	STREET NAME (AFTER SALE)		AREA CODE	TELEPHONE NUMBER
			SELLER	
CITY OR TOWN	STATE	ZIP CODE	SELLER SIGNATURE	DATE

FOR CITY USE ONLY

C1. County Code ____ C2. Date Deed Recorded [redacted] / / (Month Day Year)

C3. Book ____ C4. Page ____

OR

C5. CRFN ____

[redacted] PROPERTY TRANSFER REPORT

STATE OF NEW YORK
STATE BOARD OF REAL PROPERTY SERVICES

RP - 5217NYC

(Rev 11/2002)

PROPERTY INFORMATION

1. Property Location: 513 (STREET NUMBER) PORTER AVENUE (STREET NAME) BROOKLYN (BOROUGH) 11222 (ZIP CODE)

2. Buyer Name: NEW YORK STATE DEPARTMENT OF TRANSPORTATION (LAST NAME / COMPANY) (FIRST NAME)

(LAST NAME / COMPANY) (FIRST NAME)

3. Tax Billing Address: Indicate where future Tax Bills are to be sent if other than buyer address (at bottom of form) (LAST NAME / COMPANY) (FIRST NAME)

(STREET NUMBER AND STREET NAME) (CITY OR TOWN) (STATE) (ZIP CODE)

4. Indicate the number of Assessment Roll parcels transferred on the deed: 1 # of Parcels OR ☐ Part of a Parcel

4A. Planning Board Approval - N/A for NYC

4B. Agricultural District Notice - N/A for NYC

Check the boxes below as they apply:

6. Ownership Type is Condominium ☐

7. New Construction on Vacant Land ☐

5. Deed Property Size: ____ (FRONT FEET) X ____ (DEPTH) OR ____ (ACRES)

8. Seller Name: 513 PORTER AVENUE LLC (LAST NAME / COMPANY) (FIRST NAME)

(LAST NAME / COMPANY) (FIRST NAME)

9. Check the box below which most accurately describes the use of the property at the time of sale:

A	☐	One Family Residential	C	☐	Residential Vacant Land	E	✓	Commercial	G ☐ Entertainment / Amusement	I ☐ Industrial
B	☐	2 or 3 Family Residential	D	☐	Non-Residential Vacant Land	F	☐	Apartment	H ☐ Community Service	J ☐ Public Service

SALE INFORMATION

10. Sale Contract Date: 3 / 9 / 2010 (Month Day Year)

11. Date of Sale / Transfer: 3 / 9 / 2010 (Month Day Year)

12. Full Sale Price $ 0

(Full Sale Price is the total amount paid for the property including personal property. This payment may be in the form of cash, other property or goods, or the assumption of mortgages or other obligations.) *Please round to the nearest whole dollar amount.*

13. Indicate the value of personal property included in the sale ____

14. Check one or more of these conditions as applicable to transfer:

A	☐	Sale Between Relatives or Former Relatives
B	☐	Sale Between Related Companies or Partners in Business
C	☐	One of the Buyers is also a Seller
D	✓	Buyer or Seller is Government Agency or Lending Institution
E	☐	Deed Type **not** Warranty or Bargain and Sale (Specify Below)
F	☐	Sale of Fractional or Less than Fee Interest (Specify Below)
G	☐	Significant Change in Property Between Taxable Status and Sale Dates
H	☐	Sale of Business is Included in Sale Price
I	☐	Other Unusual Factors Affecting Sale Price (Specify Below)
J	☐	None

ASSESSMENT INFORMATION - Data should reflect the latest Final Assessment Roll and Tax Bill

15. Building Class: F 4

16. Total Assessed Value (of all parcels in transfer) ____

17. Borough, Block and Lot / Roll Identifier(s) (If more than three, attach sheet with additional identifier(s))

BROOKLYN 2811 14

CERTIFICATION

I certify that all of the items of information entered on this form are true and correct (to the best of my knowledge and belief) and I understand that the making of any willful false statement of material fact herein will subject me to the provisions of the penal law relative to the making and filing of false instruments.

BUYER

For NYS DOT L. Romero (BUYER SIGNATURE) 3/10/2010 (DATE)

(STREET NUMBER) (STREET NAME (AFTER SALE))

(CITY OR TOWN) (STATE) (ZIP CODE)

BUYER'S ATTORNEY

(LAST NAME) (FIRST NAME)

(AREA CODE) (TELEPHONE NUMBER)

SELLER

(SELLER SIGNATURE) (DATE)

AFFIDAVIT OF COMPLIANCE WITH SMOKE DETECTOR REQUIREMENT FOR ONE- AND TWO-FAMILY DWELLINGS

State of New York)
) **SS.:**
County of)

The undersigned, being duly sworn, depose and say under penalty of perjury that they are the grantor and grantee of the real property or of the cooperative shares in a cooperative corporation owning real property located at

513 PORTER AVENUE , _____ ,
Street Address **Unit/Apt.**

BROOKLYN New York, 2811 14 (the "Premises");
Borough **Block** **Lot**

That the Premises is a one or two family dwelling, or a cooperative apartment or condominium unit in a one- or two-family dwelling, and that installed in the Premises is an approved and operational smoke detecting device in compliance with the provisions of Article 6 of Subchapter 17 of Chapter 1 of Title 27 of the Administrative Code of the City of New York concerning smoke detecting devices;

That they make affidavit in compliance with New York City Administrative Code Section 11-2105 (g). (The signatures of at least one grantor and one grantee are required, and must be notarized).

	NEW YORK STATE DEPT. OF TRANSPORTATION
Name of Grantor (Type or Print)	**Name of Grantee** (Type or Print)
	FOR NYS DOT. L Romer.
Signature of Grantor	**Signature of Grantee**
Sworn to before me this _____ **date of** _____ **19** ____	**Sworn to before me this** 10th **date of** March **19** 2010
	Nicole L. Zaidi **NICOLE L. ZAIDI** **Notary Public, State of New York** **No. 01ZA6194907** **Qualified in Queens County** **Commission Expires October 14, 2012**

These statements are made with the knowledge that a willfully false representation is unlawful and is punishable as a crime of perjury under Article 210 of the Penal Law.

NEW YORK CITY REAL PROPERTY TRANSFER TAX RETURNS FILED ON OR AFTER FEBRUARY 6th, 1990, WITH RESPECT TO THE CONVEYANCE OF A ONE- OR TWO-FAMILY DWELLING, OR A COOPERATIVE APARTMENT OR A CONDOMINIUM UNIT IN A ONE- OR TWO-FAMILY DWELLING, WILL NOT BE ACCEPTED FOR FILING UNLESS ACCOMPANIED BY THIS AFFIDAVIT.

AFFIDAVIT OF COMPLIANCE WITH SMOKE DETECTOR REQUIREMENT FOR ONE- AND TWO-FAMILY DWELLINGS

State of New York)
) SS.:
County of)

The undersigned, being duly sworn, depose and say under penalty of perjury that they are the grantor and grantee of the real property or of the cooperative shares in a cooperative corporation owning real property located at

513 PORTER AVENUE , _____ ,
Street Address Unit/Apt.

BROOKLYN New York, 2811 14 (the "Premises");
Borough Block Lot

That the Premises is a one or two family dwelling, or a cooperative apartment or condominium unit in a one- or two-family dwelling, and that installed in the Premises is an approved and operational smoke detecting device in compliance with the provisions of Article 6 of Subchapter 17 of Chapter 1 of Title 27 of the Administrative Code of the City of New York concerning smoke detecting devices;

That they make affidavit in compliance with New York City Administrative Code Section 11-2105 (g). (The signatures of at least one grantor and one grantee are required, and must be notarized).

Name of Grantor (Type or Print)	Name of Grantee (Type or Print)
Signature of Grantor	Signature of Grantee
Sworn to before me this _____ date of _____ 19 ____	Sworn to before me this _____ date of _____ 19 ____

These statements are made with the knowledge that a willfully false representation is unlawful and is punishable as a crime of perjury under Article 210 of the Penal Law.

NEW YORK CITY REAL PROPERTY TRANSFER TAX RETURNS FILED ON OR AFTER FEBRUARY 6th, 1990, WITH RESPECT TO THE CONVEYANCE OF A ONE- OR TWO-FAMILY DWELLING, OR A COOPERATIVE APARTMENT OR A CONDOMINIUM UNIT IN A ONE- OR TWO-FAMILY DWELLING, WILL NOT BE ACCEPTED FOR FILING UNLESS ACCOMPANIED BY THIS AFFIDAVIT.

The City of New York
Department of Environmental Protection
Bureau of Customer Services
59-17 Junction Boulevard
Flushing, NY 11373-5108

www.nyc.gov/dep

Customer Registration Form for Water and Sewer Billing

Property and Owner Information:

(1) Property receiving service: BOROUGH: BROOKLYN BLOCK: 2811 LOT: 14

(2) Property Address: 513 PORTER AVENUE, BROOKLYN, NY 11222

(3) Owner's Name: NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Additional Name:

Affirmation:

☑ You have visited DOF's Mailing Address Update website and indicated that your water & sewer bill should be sent to the mailing address provided on that site. If no information was entered your water & sewer bill be sent to the property address.

Customer Billing Information:

Please Note:

A. Water and sewer charges are the legal responsibility of the owner of a property receiving water and/or sewer service. The owner's responsibility to pay such charges is not affected by any lease, license or other arrangement, or any assignment of responsibility for payment of such charges. Water and sewer charges constitute a lien on the property until paid. In addition to legal action against the owner, a failure to pay such charges when due may result in foreclosure of the lien by the City of New York, the property being placed in a lien sale by the City or Service Termination.

B. Original bills for water and/or sewer service will be mailed to the owner, **at the property address or to an alternate mailing address**. DEP will provide a duplicate copy of bills to one other party (such as a managing agent), however, any failure or delay by DEP in providing duplicate copies of bills shall in no way relieve the owner from his/her liability to pay all outstanding water and sewer charges. Contact DEP at (718) 595-7000 during business hours or visit www.nyc.gov/dep to provide us with the other party's information.

Owner's Approval:

The undersigned certifies that he/she/it is the owner of the property receiving service referenced above; that he/she/it has read and understands Paragraphs A & B under the section captioned "Customer Billing Information"; and that the information supplied by the undersigned on this form is true and complete to the best of his/her/its knowledge.

Print Name of Owner:

Signature: _____ Date (mm/dd/yyyy)

Name and Title of Person Signing for Owner, if applicable:

CS-7CRF-ACRIS REV. 8/08

2010030900264101

The City of New York
Department of Environmental Protection
Bureau of Customer Services
59-17 Junction Boulevard
Flushing, NY 11373-5108

Customer Registration Form for Water and Sewer Billing

Property and Owner Information:

(1) Property receiving service: BOROUGH: BROOKLYN BLOCK: 2811 LOT: 14

(2) Property Address: 513 PORTER AVENUE, BROOKLYN, NY 11222

(3) Owner's Name: NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Additional Name:

Affirmation:

☑ Your water & sewer bills will be sent to the property address shown above.

Customer Billing Information:

Please Note:

A. Water and sewer charges are the legal responsibility of the owner of a property receiving water and/or sewer service. The owner's responsibility to pay such charges is not affected by any lease, license or other arrangement, or any assignment of responsibility for payment of such charges. Water and sewer charges constitute a lien on the property until paid. In addition to legal action against the owner, a failure to pay such charges when due may result in foreclosure of the lien by the City of New York, the property being placed in a lien sale by the City or Service Termination.

B. Original bills for water and/or sewer service will be mailed to the owner, **at the property address or to an alternate mailing address**. DEP will provide a duplicate copy of bills to one other party (such as a managing agent), however, any failure or delay by DEP in providing duplicate copies of bills shall in no way relieve the owner from his/her liability to pay all outstanding water and sewer charges. Contact DEP at (718) 595-7000 during business hours or visit www.nyc.gov/dep to provide us with the other party's information.

Owner's Approval:

The undersigned certifies that he/she/it is the owner of the property receiving service referenced above; that he/she/it has read and understands Paragraphs A & B under the section captioned "Customer Billing Information"; and that the information supplied by the undersigned on this form is true and complete to the best of his/her/its knowledge.

Print Name of Owner:

Signature: _____ Date (mm/dd/yyyy)

Name and Title of Person Signing for Owner, if applicable:

BCS-7CRF-ACRIS REV. 8/08

2010082300349101

APPENDIX B - ENVIRONMENTAL NOTICE

This Appendix will include a copy of the Environmental Notice. The figure/survey that shows the restricted areas must also be included in this Appendix as one is not always filed with the county clerk. In addition, this Appendix should include copies of any required access agreements of other properties required to perform site management activities.

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument.The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.

2019040100503001001E0A97

RECORDING AND ENDORSEMENT COVER PAGE

Document ID: 2019040100503001 Document Date: 03-25-2019 Preparation Date: 04-01-2019
Document Type: SUNDRY MISCELLANEOUS
Document Page Count: 10

PRESENTER:
FRONTIER RECORDINGS
69 CASCADE DRIVE
SUITE 101
ROCHESTER, NY 14614
585-955-6111
RECORDINGS@FRONTIERABSTRACT.COM

RETURN TO:
FRONTIER RECORDINGS
69 CASCADE DRIVE
SUITE 101
ROCHESTER, NY 14614
585-955-6111
RECORDINGS@FRONTIERABSTRACT.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	2811	14	Entire Lot	513 PORTER AVENUE

Property Type: OTHER

CROSS REFERENCE DATA

CRFN: 2010000307914

PARTIES

PARTY 1:
NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 BROADWAY
ALBANY, NY 12233

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	87.00
Affidavit Fee:	$	0.00

Filing Fee:	$	0.00
NYC Real Property Transfer Tax:	$	0.00
NYS Real Estate Transfer Tax:	$	0.00

RECORDED OR FILED IN THE OFFICE OF THE CITY REGISTER OF THE CITY OF NEW YORK
Recorded/Filed 04-02-2019 08:18
City Register File No.(CRFN):
2019000104113

City Register Official Signature

ENVIRONMENTAL NOTICE
To be issued in lieu of Environmental Easement/Deed Restriction as referenced in DER-33

THIS ENVIRONMENTAL NOTICE is made the 25th day of March 2019, by the New York State Department of Environmental Conservation (Department), having an office for the transaction of business at 625 Broadway, Albany, New York 12233.

WHEREAS, a parcel of real property identified as Former ACME Steel Partition Co. (Site # 224192), located at 513 Porter Avenue in the City of New York, County of Kings, State of New York, which is part of lands conveyed from 513 Porter Avenue LLC (purported owner) to the New York State Department of Transportation by Notice of Appropriation dated 3/10/2010 and recorded in the Kings County Clerk's Office on 9/13/2010 under CRFN #2010000307914 and being more particularly described in Appendix "A", attached to this noticed and made a part hereof, and hereinafter referred to as " the Property" is the subject of a Order on Consent executed by the New York State Department of Transportation as part of the Department's State Superfund Program; and

WHEREAS, the Department approved a cleanup to address contamination disposed at the Property and such cleanup was conditioned upon certain limitations.

NOW, THEREFORE, the Department provides notice that:

FIRST, the Property subject to this Environmental Notice is as shown on a map attached to this Notice as Appendix "B" and made a part hereof.

SECOND, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the Sate and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Site Management Plan ("SMP"), there shall be no disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results or may result in a significantly increased threat of harm or damage at any site as a result of exposure to soils. A violation of this provision is a violation of 6 NYCRR 375-1.11(b)(2).

THIRD, no person shall disturb, remove, or otherwise interfere with the installation, use, operations, and maintenance of engineering controls required for the Remedy, including but not limited to those engineering controls described in the SMP and listed below, unless in each instance they first obtain a written waiver of such prohibition from the Department or Relevant Agency.

FOURTH, the remedy was designed to be protective for the following uses: **Restricted Residential as described in 6 NYCRR Part 375-1.8(g)(2)(ii), Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)** . Therefore, any use for purposes other than Restricted Residential without the

express written waiver of such prohibition by the Relevant Agency may result in a significantly increased threat of harm or damage at any site.

FIFTH, no person shall use the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency. Use of the groundwater without appropriate treatment may result in a significantly increased threat of harm or damage at any site.

SIXTH, it is a violation of 6 NYCRR 375-1.11(b) to use the Property in a manner inconsistent with this environmental notice.

IN WITNESS WHEREOF, the undersigned, acting by and though the Department of Environmental Conservation as Designee of the Commissioner, has executed this instrument the day written below.

By: _____
Michael Ryan, Director
Division of Remediation

STATE OF NEW YORK)
) ss:
COUNTY OF)

On the 25th day of March, in the year 2019, before me, the undersigned, personally appeared Michael Ryan, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his signature on the instrument, the individual, or the person upon behalf of which individual acted, executed the instrument.

_____
Notary Public – State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2022

Appendix A

All those pieces or parcels of property hereinafter designated as Parcel Nos. 46, 47 and 48, situate in the County of Kings, State of New York, as shown on the accompanying maps and described as follows:

Parcel No. 46

Beginning at a point (P.O.B.), said point being the intersection of the westerly boundary of Porter Avenue and the northerly boundary of Anthony Street, as shown on the accompanying map, and being 63.263 meters (207.56 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+498.490;

1. Thence running southwesterly, S71°16'35"W, a distance of 60.960 meters (200.00 feet) to a point, said point being 63.171 meters (207.25 feet) distant right as measured at right angles from the Baseline at Station 10+437.530;

2. Thence running northwesterly, N18°43'25"W, a distance of 33.115 meters (108.64 feet) to a point, said point being 30.056 meters (98.61 feet) distant right as measured at right angles from the Baseline at Station 10+437.580;

3. Thence running northeasterly, N78°12'21"E, a distance of 61.409 meters (201.47 feet) to a point, said point being 37.556 meters (123.21 feet) distant right as measured at right angles from the Baseline at Station 10+498.529;

4. Thence running southeasterly, S18°43'25"E, a distance of 25.706 meters (84.34 feet) to the point of BEGINNING.

Containing 1,792.887± square meters (19,298.40± square feet) or 0.1793± hectares (0.4430± acres).

Parcel No. 47

Beginning at a point (P.O.B.), said point being on the westerly boundary of Porter Avenue, as shown on the accompanying map, and being 37.556 meters (123.21 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+498.529;

1. Thence running southwesterly, S78°12'21"W, a distance of 61.409 meters (201.47 feet) to a point, said point being 30.056 meters (98.61 feet) distant right as measured at right angles from the Baseline at Station 10+437.580;

2. Thence running northwesterly, N18°43'25"W, a distance of 20.113 meters (65.99 feet) to a point, said point being 9.943 meters (32.62 feet) distant right as measured at right angles from the Baseline at Station 10+437.610;

3. Thence running northeasterly, along a curve bearing to the right, having a radius of 602.790 meters (1,977.65 feet) a distance of 11.798 meters (38.71 feet) to a point, said point being 10.167 meters (33.36 feet) distant right as measured at right angles from the Baseline at Station 10+449.405;

4. Thence running northeasterly, N72°50'21"E, a distance of 49.183 meters (161.36 feet) to a point, said point being 11.582 meters (38.00 feet) distant right as measured from the Baseline at Station 10+498.567;

5. Thence running southeasterly, S18°43'25"E, a distance of 25.974 meters (85.22 feet) to the point of BEGINNING.

Containing 1,407.808± square meters (15,153.46± square feet) or 0.1408± hectares (0.3479± acres).

Parcel No. 48

Beginning at a point (P.O.B.), said point being on the southerly boundary of Cherry Street, as shown on the accompanying map, and being 2.211 meters (7.25 feet) distant right as measured at right angles from the project baseline, hereinafter designated Baseline, at Station 10+437.621;

1. Thence running northeasterly, N71°16'35"E, a distance of 58.166 meters (190.83 feet) to a point, said point being 2.298 meters (7.54 feet) distant right as measured at right angles from the Baseline at Station 10+495.784;

2. Thence running southeasterly, S45°36'15"E, a distance of 6.180 meters (20.28 feet) to a point, said point being 7.804 meters (25.60 feet) distant right as measured at right angles from the Baseline at Station 10+498.573;

3. Thence running southeasterly, S18°43'25"E, a distance of 3.768 meters (12.36 feet) to a point, said point being 11.582 meters (38.00 feet) distant right as measured at right angles from the Baseline at Station 10+498.567;

Parcel No. 48(Continued)

4. Thence running southwesterly, S72°50'21"W, a distance of 49.183 meters (161.36 feet) to a point, said point being 10.167 meters (33.36 feet) distant right as measured from the Baseline at Station 10+449.405;

5. Thence running southwesterly, along a curve bearing to the left, having a radius of 602.790 meters (1,977.65 feet) a distance of 11.798 meters (38.71 feet) to a point, said point being 9.943 meters (32.62 feet) distant right as measured at right angles from the Baseline at Station 10+437.610;

6. Thence running northwesterly, N18°43'25"W, a distance of 7.732 meters (25.37 feet) to the point of BEGINNING.

Containing 507.746± square meters (5,465.31± square feet) or 0.0508± hectares (0.1255± acres).

The above mentioned survey baseline is a portion of the 2002 survey baseline (NAD 83/96) for the Kosciuszko Bridge Project as shown on a map and plan on file in the Office of the State Department of Transportation and described as follows:

BEGINNING at Station 10+000; thence N34°02'25.1"E, a distance of 126.225 meters (414.12 feet) to Station 10+126.225; thence N59°21'10.6"E, a distance of 135.614 meters (444.93 feet) to Station 10+261.839; thence N55°07'32.4"E, a distance of 143.736 meters (471.57 feet) to Station 10+405.575; thence N71°11'26.1"E, a distance of 111.137 meters (364.62 feet) to Station 10+516.712; thence N66°00'27.9"E, a distance of 123.498 meters (405.18 feet) to Station 10+640.211; thence N75°13'15.9"E, a distance of 158.152 meters (518.87 feet) to Station 10+798.363; thence N65°09'02.3"E, a distance of 139.153 meters (456.54 feet) to Station 10+937.516; thence N25°18'37.7"W, a distance of 136.381 meters (447.44 feet) to Station 11+073.897; thence N14°32'03.9"W, a distance of 140.898 meters (462.26 feet) to Station 11+214.795; thence N48°49'39.9"E, a distance of 201.062 meters (659.65 feet) to Station 11+415.857; thence N76°39'17.5"E, a distance of 100.036 meters (328.20 feet) to Station 11+515.893; thence N79°55'15.1"E, a distance of 108.092 meters (354.63 feet) to Station 11+623.985; thence N42°53'07.0"E, a distance of 189.402 meters (621.40 feet) to Station 11+813.387; thence N24°39'57.0"E, a distance of 198.402 meters (650.92 feet) to Station 12+011.789; thence N23°27'01.6"E, a distance of 156.445 meters (513.27 feet) to Station 12+168.234; thence N34°47'31.5"E, a distance of 157.648 meters (517.22 feet) to Station 12+325.882; thence N27°38'14.0"W, a distance of 79.947 meters (262.29 feet) to Station 12+405.829; thence N67°32'38.6"W, a distance of 114.424 meters (375.41 feet) to Station 12+520.253; thence N48°04'04.9"W, a distance of 143.637 meters (471.25 feet) to Station 12+663.890.

All bearings and distances are referenced to the New York State Plane Coordinate System, NAD 1983-96, Long Island Zone.

All bearings referred to True North at the 74°-00'-00" Meridian of West Longitude.

FEE TAKINGS

Map No.	Parcel No.	Reputed Owner	Square Meters (+/-)	Hectares (+/-)	Square Feet (+/-)	Acres (+/-)
28	46	513 PORTER AVENUE LLC	1,792.887	0.1793	19,298.40	0.443
28	47	513 PORTER AVENUE LLC	1,407.808	0.1408	15,153.46	0.348
28	48	513 PORTER AVENUE LLC	507.746	0.0508	5,465.31	0.125

TOTAL FEE AREA = 3,708.441± Square Meters
(39,917.17± Square Feet)

FILE NAME = 7868

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

MAP NO. 28
PARCEL NOS. 46-48
SHEET 6 OF 6 SHEETS

"Unauthorized alteration of a survey map bearing a licensed land surveyor's seal is a violation of section 7209 of the New York Education Law."

I hereby certify that this map was prepared in accordance with current NYSDOT policies, standards and procedures.

Date 4/2/09

Kenneth Stigner Surveyor
NY/P.L.S. License No. 49824
Stantec Consulting Services, Inc.

I hereby certify that the property mapped above is necessary for this project, and the acquisition thereof is recommended.

Date 4/2/09

Sonia A. Pichardo, PE Regional Design Engineer
For The Regional Director of Transportation
Region 11

513 PORTER AVENUE LLC
(REPUTED OWNER)

Map No. 28
Parcel Nos. 46-48

Total FEE Area = 3,708.4± Square Meters
(39,917± Square Feet)

Map of property showing Parcel Nos. 46, 47 and 48, each of which the Commissioner of Transportation deems necessary to be acquired by appropriation in the name of the People of the State of New York in fee, for purposes connected with the highway system of the State of New York pursuant to Section 30 of the Highway Law and the Eminent Domain Procedure Law.

There is excepted from this appropriation all the right, title and interest, if any, of the United States of America, in or to said property.

Pursuant to the statute(s) set forth above and the authority delegated to me by Official Order of the Commissioner of Transportation, this acquisition map is hereby approved and filed in the main office of the New York State Department of Transportation.

Date September 7, 2009

Mary A. Marocco
Director, Real Estate Division

I have compared the foregoing copy of the map with the original thereof, as filed in the Office of the Department of Transportation, and I do hereby certify the same to be a true and correct copy of the original and of the whole thereof.

Real Estate Division

Appendix B

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

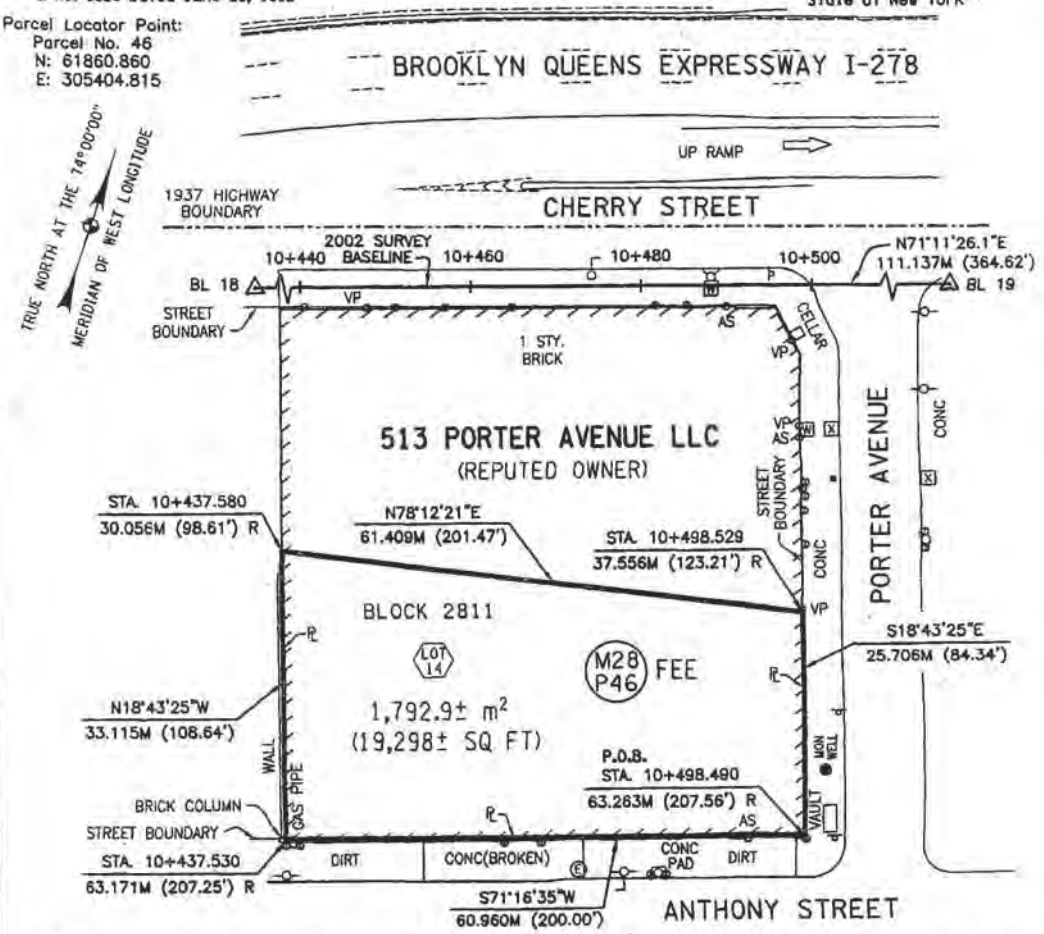
MAP NO. 28
PARCEL NOS. 46-48
SHEET 1 OF 6 SHEETS

MAP REFERENCE INFORMATION:
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Brooklyn F. S. Maps Nos. 4 & 5 Dated Aug. 10, 1970
Draft Acq. & Damage Map Misc. No. 5993
Dated May 5, 1939 & No. W-91 Dated March 10, 1947
Draft Acq. & Damage Map Misc. No. 7546 Dated Aug. 19, 1942
& No. 3520 Dated June 28, 1912

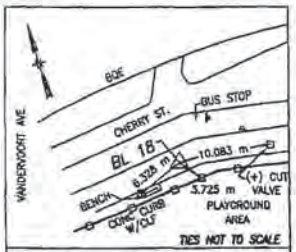
513 PORTER AVENUE LLC
(REPUTED OWNER)
CCD L 4440 P 1224
TRN 18

PARCEL SUMMARY:
Acquisition Type: FEE
Portion of 2008 Tax Map
Ref. No. 69
Block 2811, Lot 14
Borough of Brooklyn
County of Kings
State of New York

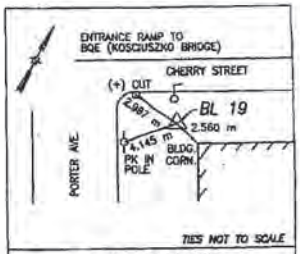
Parcel Locator Point:
Parcel No. 46
N: 61860.860
E: 305404.815



NOTE:
THE PROPERTY LINES SHOWN HEREON WERE PLOTTED USING RECORD DEED DATA. THE TAX LOT LINES SHOWN HEREON WERE PLOTTED USING 2008 TAX MAP DATA. IN SOME CASES TAX LOT LINES ARE NOT COINCIDENTAL WITH RECORD DEED PROPERTY LINES. IN THESE CASES, THE PROPERTY LINES AND THE TAX LOT LINES ARE LABELED INDEPENDENTLY.



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(M)
N 61890.788
E 305294.465



℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(M)
N: 61926.619
E: 305401.667

10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

FILE NAME = T2N18

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

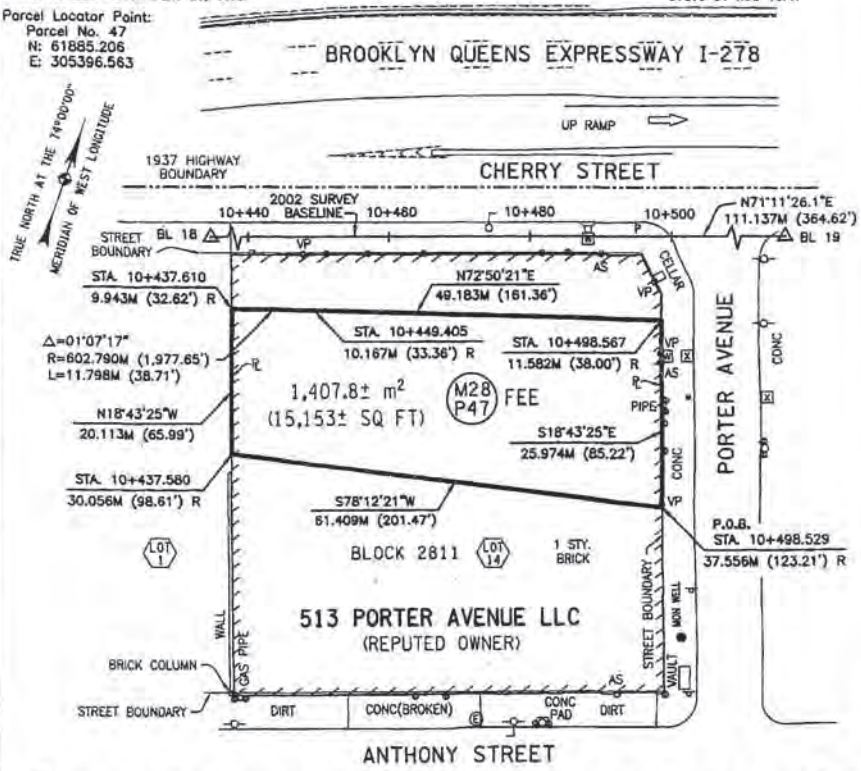
MAP NO. 28
PARCEL NOS. 46-48
SHEET 2 OF 6 SHEETS

MAP REFERENCE INFORMATION:
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Brooklyn F. S. Maps Nos. 4 & 5 Dated Aug. 10, 1970 CCD L 4440 P 1224
Draft Acq. & Damage Map Misc. No. 5993 TRN 18
Dated May 5, 1939 & No. W-91 Dated March 10, 1947
Draft Acq. & Damage Map Misc. No. 7546 Dated Aug. 19, 1942
& No. 3520 Dated June 28, 1912

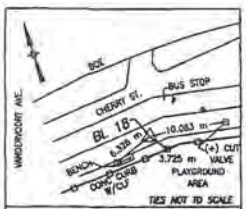
513 PORTER AVENUE LLC
(REPUTED OWNER)

PARCEL SUMMARY:
Acquisition Type: FEE
Portion of 2008 Tax Map
Ref. No. 69
Block 2811, Lot 14
Borough of Brooklyn
County of Kings
State of New York

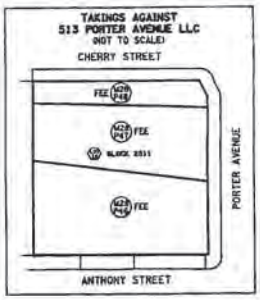
Parcel Locator Point:
Parcel No. 47
N: 61885.206
E: 305396.563

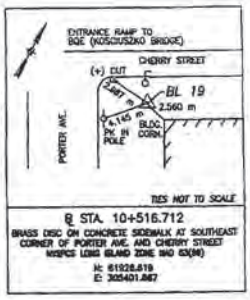


NOTE:
THE PROPERTY LINES SHOWN HEREON WERE PLOTTED USING RECORD DEED DATA. THE TAX LOT LINES SHOWN HEREON WERE PLOTTED USING 2008 TAX MAP DATA. IN SOME CASES TAX LOT LINES ARE NOT COINCIDENTAL WITH RECORD DEED PROPERTY LINES. IN THESE CASES, THE PROPERTY LINES AND THE TAX LOT LINES ARE LABELED INDEPENDENTLY.



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(M)
N 61890.786
E 305396.488





℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(M)
N: 61928.619
E: 305401.867

10 0 10 20 30 m

SCALE 1:500
ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7639673611 SQUARE FEET.

FILE NAME = TRN18

KOSCIUSZKO BRIDGE PROJECT
CITY OF NEW YORK
QUEENS AND KINGS COUNTIES

NEW YORK STATE
DEPARTMENT OF TRANSPORTATION
ACQUISITION MAP
PIN X729.77

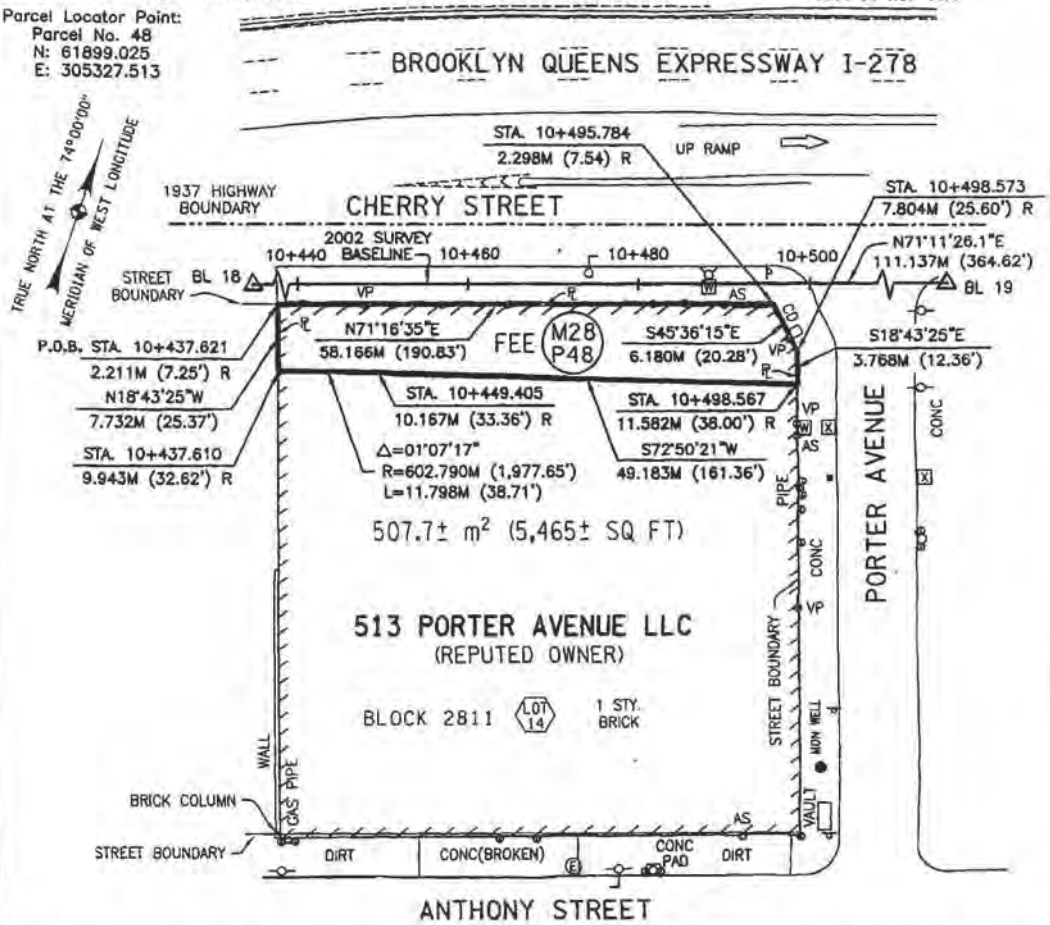
MAP NO. 28
PARCEL NOS. 46-48
SHEET 3 OF 6 SHEETS

MAP REFERENCE INFORMATION:
Meeker Avenue Bridge of Newtown Creek
Draft Damage Map Dated Dec. 02, 1937
Brooklyn F. S. Maps Nos. 4 & 5 Dated Aug. 10, 1970
Draft Acq. & Damage Map Misc. No. 5993
Dated May 5, 1939 & No. W-91 Dated March 10, 1947
Draft Acq. & Damage Map Misc. No. 7546 Dated Aug. 19, 1942
& No. 3520 Dated June 28, 1912

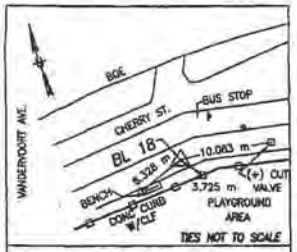
513 PORTER AVENUE LLC
(REPUTED OWNER)
CCD L 4440 P 1224
TRN 18

PARCEL SUMMARY:
Acquisition Type: FEE
Portion of 2008 Tax Map
Ref. No. 69
Block 2811, Lot 14
Borough of Brooklyn
County of Kings
State of New York

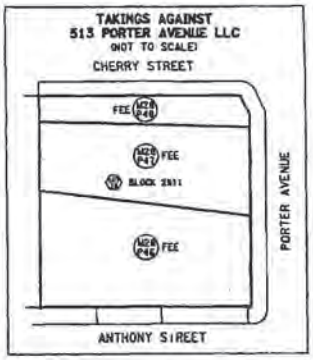
Parcel Locator Point:
Parcel No. 48
N: 61899.025
E: 305327.513

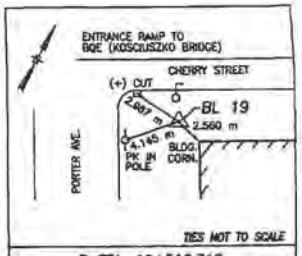


NOTE:
THE PROPERTY LINES SHOWN HEREON WERE PLOTTED USING RECORD DEED DATA. THE TAX LOT LINES SHOWN HEREON WERE PLOTTED USING 2008 TAX MAP DATA. IN SOME CASES TAX LOT LINES ARE NOT COINCIDENTAL WITH RECORD DEED PROPERTY LINES. IN THESE CASES, THE PROPERTY LINES AND THE TAX LOT LINES ARE LABELED INDEPENDENTLY.



℄ STATION 10+405.575
BRASS DISC ON CONCRETE SIDEWALK
NYSPCS LONG ISLAND ZONE NAD 83(86)
N 61890.786
E 305296.465





℄ STA. 10+516.712
BRASS DISC ON CONCRETE SIDEWALK AT SOUTHEAST CORNER OF PORTER AVE. AND CHERRY STREET
NYSPCS LONG ISLAND ZONE NAD 83(86)
N: 61925.619
E: 305401.667

10 0 10 20 30 m

SCALE 1:500

ONE METER EQUALS 3.28083333333 FEET.
ONE SQUARE METER EQUALS 10.7638673611 SQUARE FEET.

FILE NAME = TM08

APPENDIX C - SITE INVESTIGATION REPORT DOCUMENTATION

DRAFT SITE CHARACTERIZATION FINDINGS REPORT

513 PORTER AVENUE AND SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

NYSDOT KOSCIUSZKO BRIDGE PROJECT
(NYSDOT PIN X729.77)

EPM Project No. 26052

Prepared for:
Parsons Brinkerhoff
One Penn Plaza
New York, NY 10119

For submittal to:
The New York State Department of Transportation
Region 11

Prepared by:

ENVIRONMENTAL
PLANNING &
MANAGEMENT, INC

1983 Marcus Avenue, Suite 109
Lake Success, New York 11042

April 7, 2014

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn NY 11222 (Page 1 of 4)

Sample ID:	B1(0-2')	B1 (5-10')	B1 (52-55')	B2 (0-2')	Duplicate B2 (0-2')	B2 (15-20')	B2 (55-58')	B3 (0-2')	B3 (15-20')	B3 (55-58')	B3 (60-62')	B4 (0-2')	B4 (19-20')	B4 (55-59')	B4 (65-67.5')	B5 (0-2')	B5 (10-15')	B5 (50-55')	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	0-2	5-10	52-55	0-2	0-2	15-20	55-58	0-2	15-20	55-58	60-62	0-2	19-20	55-59	65-67.5	0-2	10-15	50-55				
COMPOUND	RESULTS (ppm)																		(ppm)			
Volatile Organic Compounds (VOCs)																						
Tetrachloroethene												2.2							1.3	19	150	1.3
Benzene		1.3																	0.06	4.8	44	0.06
Toluene		2.2																	0.7	100	500	0.7
Xylenes, Total		2.03					5.9												0.26	100	500	1.6
Acetone																			0.05	100	500	0.05
1,2,4-Trimethylbenzene							5.2												3.6	52	190	3.6
Semi Volatile Organic Compounds																						
Di-n-butylphthalate	0.17											2.8							0.014 *	NA	NA	NA
Benzo(a)anthracene		2.6						3.0				1.4							1.0	1.0	5.6	1.0
Benzo(a)pyrene		3.2						2.8				1.2							1.0	1.0	1.0	22.0
Benzo(b)fluoranthene		6.6			1.3			3.1				1.7							1.0	1.0	5.6	1.7
Benzo(k)fluoranthene		1.9						1.3											0.8	3.9	56	1.7
Chrysene		4.0			1.1			3.0				1.4							1.0	3.9	56	1.0
Dibenzo(a,h)anthracene		0.84						0.38											0.33	0.33	0.56	1,000
Indeno(1,2,3-cd)Pyrene		3.7		0.53	0.96			1.7				1.1							0.5	0.5	5.6	8.2
2-Methylnaphthalene			0.78				1.8	0.47											0.41 *	NA	NA	NA
Metals																						
Aluminum, Total																			10,000 *	NA	NA	NA
Antimony, Total								2,000											12 *	NA	NA	NA
Arsenic, Total		52						74											13	16	16	16
Barium, Total																			350	400	400	820
Cadmium, Total																			2.5	4.3	9.3	7.5
Calcium, Total	33,000		12,000									28,000							10,000 *	NA	NA	NA
Chromium, Total		39																	30 **	180 **	1,500 **	NS
Cobalt, Total		22																	20 *	NA	NA	NA
Copper, Total		140						79				240							50	270	270	1,720
Iron, Total	13,000	61,000	8,200	16,000	14,000	10,000	11,000	26,000	17,000	5,800	26,000	34,000	17,000	8,100	18,000	20,000	16,000	8,800	2,000 *	NA	NA	NA
Lead, Total	100			240	250			6,400				640							63	400	1,000	450
Mercury, Total	0.2	0.5		0.24				0.48				1.2							0.18	0.81	2.8	0.73
Nickel, Total		55																	30	310	310	130
Selenium, Total																			3.9	180	1,500	4
Vanadium, Total		60																	39 *	NA	NA	NA
Zinc, Total	180			140				170				380							109	10,000	10,000	2,480
Pesticides																						
4,4'-DDE																			0.0033	8.9	62	17
4,4'-DDD																			0.0033	13	92	14
4,4'-DDT																			0.0033	7.9	47	136

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn NY 11222 (Page 2 of 4)

Sample ID:	B5 (55-59.5')	B6 (0-2')	B6 (10-15')	B6 (55-58')	B6 (60-63.5')	B7 (0-2')	B7 (15-20')	B7 (50-52.5')	B7 (95-100')	B8 (0-2')	B8 (10-15')	B8 (56.5-58.5')	B8 (95-97.5')	B9 (0-2')	B9 (15-20')	B9 (42-45')	B9 (50-51')	B9 (80-85')	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	55-59.5	0-2	10-15	55-58	60-63.5	0-2	15-20	50-52.5	95-100	0-2	10-15	56.5-58.5	95-97.5	0-2	15-20	42-45	50-51	80-85				
COMPOUND	RESULTS (ppm)																		(ppm)			
Volatile Organic Compounds (VOCs)																						
Tetrachloroethene																			1.3	19	150	1.3
Benzene																			0.06	4.8	44	0.06
Toluene																			0.7	100	500	0.7
Xylenes, Total																			0.26	100	500	1.6
Acetone																			0.05	100	500	0.05
1,2,4-Trimethylbenzene																			3.6	52	190	3.6
Semi Volatile Organic Compounds																						
Di-n-butylphthalate		0.86				0.15 J				0.059 J									0.014 *	NA	NA	NA
Benzo(a)anthracene		1.6																	1.0	1.0	5.6	1.0
Benzo(a)pyrene		1.3																	1.0	1.0	1.0	22.0
Benzo(b)fluoranthene		1.6																	1.0	1.0	5.6	1.7
Benzo(k)fluoranthene																			0.8	3.9	56	1.7
Chrysene		1.4																	1.0	3.9	56	1.0
Dibenzo(a,h)anthracene																			0.33	0.33	0.56	1,000
Indeno(1,2,3-cd)Pyrene		0.76																	0.5	0.5	5.6	8.2
2-Methylnaphthalene																			0.41 *	NA	NA	NA
Metals																						
Aluminum, Total														11,000					10,000 *	NA	NA	NA
Antimony, Total																			12 *	NA	NA	NA
Arsenic, Total																	23		13	16	16	16
Barium, Total																			350	400	400	820
Cadmium, Total																			2.5	4.3	9.3	7.5
Calcium, Total																			10,000 *	NA	NA	NA
Chromium, Total								46											30 **	180 **	1,500 **	NS
Cobalt, Total																			20 *	NA	NA	NA
Copper, Total																			50	270	270	1,720
Iron, Total	11,000	8,000	11,000	7,400	17,000	12,000	10,000	23,000	6,200	18,000	24,000	6,200	4,300	17,000	6,500	18,000	26,000	5,000	2,000 *	NA	NA	NA
Lead, Total						110				550	320								63	400	1,000	450
Mercury, Total										0.28									0.18	0.81	2.8	0.73
Nickel, Total																			30	310	310	130
Selenium, Total																			3.9	180	1,500	4
Vanadium, Total																			39 *	NA	NA	NA
Zinc, Total						150				130				170					109	10,000	10,000	2,480
Pesticides																						
4,4'-DDE														0.0227					0.0033	8.9	62	17
4,4'-DDD														0.00536					0.0033	13	92	14
4,4'-DDT														0.024					0.0033	7.9	47	136

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED OR LOCATED OFF OF ACME SITE (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn NY 11222 (Page 3 of 4)

Sample ID:	B10 (0-2')	B10 (15-20')	B10 (35-40')	B10 (43-46')	B10 (75-80')	B11 (0-2')	B11 (10-15')	Duplicate B11 (10-15')	B11 (42.5-46')	B11 (70-75')	MW-1 (0-2')	MW-1 (15-20')	Duplicate MW-1 (15-20')	MW-1 (55-59.5')	MW-1 (60-62.5')	MW-2 (0-2')	MW-2 (7-9')	MW-2 (50-53')	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	0-2	15-20	35-40	43-46	75-80	0-2	10-15	10-15	42.5-46	70-75	0-2	15-20	15-20	55-59.5	60-62.5	0-2	7-9	50-53				
COMPOUND	RESULTS (ppm)																		(ppm)			
Volatile Organic Compounds (VOCs)																						
Tetrachloroethene																			1.3	19	150	1.3
Benzene																			0.06	4.8	44	0.06
Toluene																			0.7	100	500	0.7
Xylenes, Total				1.84															0.26	100	500	1.6
Acetone							0.56	0.41 J											0.05	100	500	0.05
1,2,4-Trimethylbenzene																			3.6	52	190	3.6
Semi Volatile Organic Compounds																						
Di-n-butylphthalate																			0.014 *	NA	NA	NA
Benzo(a)anthracene																2.1	1.7		1.0	1.0	5.6	1.0
Benzo(a)pyrene																1.9	2.1		1.0	1.0	1.0	22.0
Benzo(b)fluoranthene																2.8	3.9		1.0	1.0	5.6	1.7
Benzo(k)fluoranthene																1.1	1.5		0.8	3.9	56	1.7
Chrysene																2.4	2.4		1.0	3.9	56	1.0
Dibenzo(a,h)anthracene																	0.56		0.33	0.33	0.56	1,000
Indeno(1,2,3-cd)Pyrene																1.5	2.1		0.5	0.5	5.6	8.2
2-Methylnaphthalene				1.7															0.41 *	NA	NA	NA
Metals																						
Aluminum, Total																			10,000 *	NA	NA	NA
Antimony, Total																24			12 *	NA	NA	NA
Arsenic, Total	22					33													13	16	16	16
Barium, Total																740			350	400	400	820
Cadmium, Total																22			2.5	4.3	9.3	7.5
Calcium, Total								18,000	20,000										10,000 *	NA	NA	NA
Chromium, Total	35										78	32							30 **	180 **	1,500 **	NS
Cobalt, Total																			20 *	NA	NA	NA
Copper, Total	100					130					89						92		50	270	270	1,720
Iron, Total	82,000	10,000	7,200	4,900	5,200	68,000	9,300	9,500	11,000	6,000	24,000	18,000	16,000	9,500	37,000	6,300	26,000	9,100	2,000 *	NA	NA	NA
Lead, Total	380					320					100								63	400	1,000	450
Mercury, Total	0.38					0.39					0.39						0.23		0.18	0.81	2.8	0.73
Nickel, Total											41								30	310	310	130
Selenium, Total																5.4			3.9	180	1,500	4
Vanadium, Total											180				46				39 *	NA	NA	NA
Zinc, Total	130					140					110					380			109	10,000	10,000	2,480
Pesticides																						
4,4'-DDE																			0.0033	8.9	62	17
4,4'-DDD																			0.0033	13	92	14
4,4'-DDT																			0.0033	7.9	47	136

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED OR LOCATED OFF OF ACME SITE (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn NY 11222 (Page 4 of 4)

Sample ID:	MW-2 (60-61.5')	MW3 (0-2')	MW3 (10-15')	MW3 (40-41')	MW3 (45-46')	MW3 (75-80')	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	60-61.5	0-2	10-15	40-41	45-46	75-80				
COMPOUND	RESULTS (ppm)						(ppm)			
Volatile Organic Compounds (VOCs)										
Tetrachloroethene							1.3	19	150	1.3
Benzene							0.06	4.8	44	0.06
Toluene							0.7	100	500	0.7
Xylenes, Total							0.26	100	500	1.6
Acetone							0.05	100	500	0.05
1,2,4-Trimethylbenzene							3.6	52	190	3.6
Semi Volatile Organic Compounds										
Di-n-butylphthalate							0.014 *	NA	NA	NA
Benzo(a)anthracene							1.0	1.0	5.6	1.0
Benzo(a)pyrene							1.0	1.0	1.0	22.0
Benzo(b)fluoranthene							1.0	1.0	5.6	1.7
Benzo(k)fluoranthene							0.8	3.9	56	1.7
Chrysene							1.0	3.9	56	1.0
Dibenzo(a,h)anthracene							0.33	0.33	0.56	1,000
Indeno(1,2,3-cd)Pyrene							0.5	0.5	5.6	8.2
2-Methylnaphthalene							0.41 *	NA	NA	NA
Metals										
Aluminum, Total							10,000 *	NA	NA	NA
Antimony, Total							12 *	NA	NA	NA
Arsenic, Total					15		13	16	16	16
Barium, Total							350	400	400	820
Cadmium, Total							2.5	4.3	9.3	7.5
Calcium, Total		14,000					10,000 *	NA	NA	NA
Chromium, Total							30 **	180 **	1,500 **	NS
Cobalt, Total							20 *	NA	NA	NA
Copper, Total							50	270	270	1,720
Iron, Total	14,000	20,000	10,000	18,000	30,000	5,800	2,000 *	NA	NA	NA
Lead, Total		64					63	400	1,000	450
Mercury, Total		2.1					0.18	0.81	2.8	0.73
Nickel, Total							30	310	310	130
Selenium, Total							3.9	180	1,500	4
Vanadium, Total							39 *	NA	NA	NA
Zinc, Total							109	10,000	10,000	2,480
Pesticides										
4,4'-DDE							0.0033	8.9	62	17
4,4'-DDD							0.0033	13	92	14
4,4'-DDT							0.0033	7.9	47	136

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

Table 2
Summary of Groundwater Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn NY 11222

Sample ID:	B3 (GW)	B4 (GW)	B5 (GW)	B6 (GW)	B7 (GW)	B8 (GW)	B9 (GW)	B10 (GW)	B11 (GW)	MW-1 (GW)	MW-2 (GW)	MW-3 (GW)	Duplicate MW 3 (GW)	NYSDEC Class GA Standards / Guidance Values*
COMPOUND	RESULTS (µg/L)													µg/L
Volatile Organic Compounds (VOCs)														
Chloroform	9.0	19	11	14	15			18	22					7.0
Tetrachloroethene				20	10					57	70	5.7	6.0	5.0
Benzene											32			1.0
Toluene											8.7			5.0
Ethylbenzene								56			19			5.0
Trichloroethene					80		10 J			5.8	14			5.0
Methyl tert butyl ether					120	2,400	2,300	31	25					10
p/m-Xylene								250			73			5.0
o-Xylene								71			30			5.0
sec-Butylbenzene								5.7 J						5.0
Isopropylbenzene								20						5.0
p-Isopropyltoluene								16						5.0
Naphthalene								130			19			10
n-Propylbenzene								33						5.0
1,3,5-Trimethylbenzene								75			6.8			5.0
1,2,4-Trimethylbenzene								300			24			5.0
1,2,4,5-Tetramethylbenzene								21						5.0
Semi Volatile Organic Compounds														
Naphthalene								77						10
Metals														
Antimony, Total									3.24 J		24 J			3.0
Arsenic, Total		38.92												25
Barium, Total		1,623												1,000
Beryllium, Total		9.24			3.61 J			4.17 J	3.58 J					3.0
Chromium, Total		1,357	309.9	198.4	527.8	98.3		325.8	232.4					50
Copper, Total		443.6			249.5			370.3	215					200
Iron, Total		614,000	41,700	141,000	196,000	42,800	20,500	170,000	148,000	14,000		1,800	1,900	300
Lead, Total		254.4	51.48	45.08	65.99	48.24		153.8	67.49					25
Magnesium, Total		81,300			50,500		63,200	48,900			40,000	37,000	38,000	35,000
Manganese, Total		10,000	2,500	3,004	9,574	3,586	2,308	5,956	5,256	3,860	3,310	4,110	4,280	300
Mercury, Total				3.94										0.7
Nickel, Total		303.5			170.9			171	126.2					100
Selenium, Total		10.6												10
Sodium, Total			23,900	86,100	82,200	52,600	144,000		24,600	85,000	160,000	170,000	180,000	20,000
Thallium, Total		4.2		0.61	0.97 J			0.88 J	0.96 J					0.5

Notes:

*	NYSDEC Technical & Operational Guidance Series 1.1.1 Ambient Water Quality Standards And Guidance Values And Groundwater Effluent Limitations, June 1998.
	Concentration above the indicated Class GA Value.
J	Analyte concentration is estimated due to detection below laboratory reporting limit.
µg/L	Micrograms per liter.

RED CROSSED OUT DATA ARE FOR WELLS LOCATED OFF OF ACME SITE (ADDED BY TRC FOR SMP)

TABLE 3
VOCs and Methane in Soil Vapor
513 Porter Avenue, Brooklyn, NY 11222 (Page 1 of 2)

Sample ID:	SG1	SG2	SG3	SG4	Soil Gas Duplicate (SG4)	SG5	SG6	Onsite Ambient Gas	NYSDOH Air Guideline Values**
COMPOUND	RESULTS µg/m3							µg/m3	µg/m3
Dichlorodifluoromethane	2.18	< 9.89	< 9.89	3.29	3.57	< 9.89	3.49	1.59	NA
Chloromethane	< 0.413	116	< 4.13	23.5	29.1	4.65	< 1.38	1.04	NA
Freon-114	< 1.4	< 14	< 14	< 2.8	< 3.49	< 14	< 4.66	< 1.4	NA
Vinyl chloride	< 0.511	< 5.11	< 5.11	< 1.02	< 1.28	< 5.11	< 1.71	< 0.511	NA
1,3-Butadiene	0.754	263	29.2	14.5	16.9	149	10.3	0.442	NA
Bromomethane	< 0.777	< 7.77	< 7.77	< 1.55	< 1.94	< 7.77	< 2.59	< 0.777	NA
Chloroethane	< 0.528	< 5.28	< 5.28	< 1.06	< 1.32	< 5.28	< 1.76	< 0.528	NA
Ethanol	13.5	< 47.1	< 47.1	67.1	28.5	< 47.1	89.1	9.72	NA
Vinyl bromide	< 0.874	< 8.74	< 8.74	< 1.75	< 2.19	< 8.74	< 2.92	< 0.874	NA
Acetone	5.13	264	44.4	184	233	81.7	29.2	11.6	NA
Trichlorofluoromethane	2.03	< 11.2	< 11.2	< 2.25	< 2.81	< 11.2	< 3.75	1.28	NA
Isopropanol	2.13	< 12.3	< 12.3	5.65	5.28	< 12.3	< 4.1	1.96	NA
1,1-Dichloroethene	< 0.793	< 7.93	< 7.93	< 1.59	< 1.98	< 7.93	< 2.64	< 0.793	NA
Tertiary butyl Alcohol	< 1.52	< 15.2	< 15.2	< 3.03	< 3.79	< 15.2	< 5.06	< 1.52	NA
Methylene chloride	5.77 (#)	< 34.7	< 34.7	< 6.95	< 8.69	< 34.7	< 11.6	16.6	60
3-Chloropropene	< 0.626	< 6.26	< 6.26	< 1.25	< 1.57	< 6.26	< 2.09	< 0.626	NA
Carbon disulfide	6.54	43.3	9.5	8.35	10.7	28.2	6.23	< 0.623	NA
Freon-113	< 1.53	< 15.3	< 15.3	< 3.07	< 3.83	< 15.3	< 5.11	< 1.53	NA
trans-1,2-Dichloroethene	< 0.793	< 7.93	< 7.93	< 1.59	< 1.98	< 7.93	< 2.64	< 0.793	NA
1,1-Dichloroethane	< 0.809	< 8.09	< 8.09	< 1.62	< 2.02	< 8.09	< 2.64	< 0.809	NA
Methyl tert butyl ether	< 0.721	< 7.21	< 7.21	< 1.44	< 1.8	< 7.21	< 2.4	< 0.721	NA
2-Butanone	2.2	65.8	12.6	27.3	33.6	< 5.9	4.95	0.835	NA
cis-1,2-Dichloroethene	< 0.793	< 7.93	< 7.93	< 1.59	< 1.98	< 7.93	< 2.64	< 0.793	NA
Ethyl Acetate	< 1.8	< 18	< 18	< 3.6	< 4.5	< 18	< 6.02	< 1.8	NA
Chloroform	< 0.977	72.3	10.5	< 1.95	< 2.44	< 9.77	< 3.26	< 0.977	NA
Tetrahydrofuran	< 0.59	< 5.9	< 5.9	< 1.18	< 1.47	< 5.9	< 1.97	< 0.59	NA
1,2-Dichloroethane	< 0.809	< 8.09	< 8.09	< 1.62	< 2.02	< 8.09	< 2.7	< 0.809	NA
n-Hexane	81.8	160	241	35	44.1	119	5.85	2.39	NA
1,1,1-Trichloroethane	43.3	88.9	135	31.4	39.8	< 10.9	< 3.64	< 1.09	NA
Benzene	5.78	94.2	40.3	31.1	39.9	21	< 2.13	1.95	NA
Carbon tetrachloride	< 1.26	< 12.6	< 12.6	< 2.52	< 3.15	< 12.6	< 4.2	< 1.26	NA
Cyclohexane	43.4	109	64	4.27	5.16	20.4	4.23	< 0.688	NA
1,2-Dichloropropane	< 0.924	< 9.24	< 9.24	< 1.85	< 2.31	< 9.24	< 3.08	< 0.924	NA
Bromodichloromethane	< 1.34	< 13.4	< 13.4	< 2.68	< 3.35	< 13.4	< 4.47	< 1.34	NA
1,4-Dioxane	< 0.721	< 7.21	< 7.21	< 1.44	< 1.8	< 7.21	< 2.4	< 0.721	NA
Trichloroethene	1.31 (#)	21.9 (#)	106 (#)	6.13 (#)	7.09 (#)	< 10.7	< 3.58	< 1.07	5 (*)
2,2,4-Trimethylpentane	< 0.934	< 9.34	200	17.9	22	< 9.34	< 3.12	< 0.934	NA
Heptane	237	53.3	80.3	21.3	26.9	35.8	< 2.73	1.41	NA
cis-1,3-Dichloropropene	< 0.908	< 9.08	< 9.08	< 1.82	< 2.27	< 9.08	< 3.03	< 0.908	NA
4-Methyl-2-pentanone	< 0.82	< 8.2	< 8.2	4.71	5.78	< 8.2	< 2.73	0.893	NA
trans-1,3-Dichloropropene	< 0.908	< 9.08	< 9.08	< 1.82	< 2.27	< 9.08	< 3.03	< 0.908	NA
1,1,2-Trichloroethane	< 1.09	< 10.9	< 10.9	< 2.18	< 2.73	< 10.9	< 3.64	< 1.09	NA
Toluene	7.65	31.8	126	31.1	38.8	8.22	< 2.51	12.1	NA
2-Hexanone	< 0.82	< 8.2	< 8.2	2.88	3.76	< 8.2	< 2.73	< 0.82	NA
Dibromochloromethane	< 1.7	< 17	< 17	< 3.41	< 4.26	< 17	< 5.68	< 1.7	NA
1,2-Dibromoethane	< 1.54	< 15.4	< 15.4	< 3.07	< 3.84	< 15.4	< 5.13	< 1.54	NA
Tetrachloroethene	13.2 (#)	2,820 (#)	11,100 (#)	1,040 (#)	1,320 (#)	< 13.6	< 4.52	< 1.36	30
Chlorobenzene	< 0.921	< 9.21	< 9.21	< 1.84	< 2.3	< 9.21	< 3.07	< 0.921	NA

(#) New York State does not have standards, criteria, or guidance values for compounds in soil vapor. As such, the comparison of the air guideline values (AGVs) in this table to soil vapor results is not appropriate as the AGVs pertain to ambient and indoor air concentrations.

(*) The TCE AGV was revised by NYSDOH from 5 mcg/m^3 to 2 mcg/m^3 in August 2015.

TABLE 3
VOCs and Methane in Soil Vapor
513 Porter Avenue, Brooklyn, NY 11222 (Page 2 of 2)

Sample ID:	SG1	SG2	SG3	SG4	Soil Gas Duplicate (SG4)	SG5	SG6	Onsite Ambient Gas	NYSDOH Air Guideline Values**
COMPOUND	RESULTS µg/m3							µg/m3	µg/m3
Ethylbenzene	4.6	< 8.69	12.5	3.38	4.02	< 8.69	< 2.9	0.895	NA
p/m-Xylene	15.9	< 17.4	39.6	8.43	9.6	< 17.4	< 5.78	3.27	NA
Bromoform	< 2.07	< 20.7	< 20.7	< 4.14	< 5.17	< 20.7	< 6.9	< 2.07	NA
Styrene	< 0.852	< 8.52	< 8.52	< 1.7	< 2.13	< 8.52	< 2.84	< 0.852	NA
1,1,2,2-Tetrachloroethane	< 1.37	< 13.7	< 13.7	< 2.75	< 3.43	< 13.7	< 4.58	< 1.37	NA
o-Xylene	6.43	< 8.69	13.3	3.58	4.12	< 8.69	< 2.9	1.35	NA
4-Ethyltoluene	1.64	< 9.83	< 9.83	< 1.97	< 2.46	< 9.83	< 3.28	< 0.983	NA
1,3,5-Trimethylbenzene	3.38	< 9.83	< 9.83	< 1.97	< 2.46	< 9.83	< 3.28	< 0.983	NA
1,2,4-Trimethylbenzene	5.11	< 9.83	< 9.83	2.77	2.89	< 9.83	< 3.28	2.75	NA
Benzyl chloride	< 1.04	< 10.4	< 10.4	< 2.07	< 2.59	< 10.4	< 3.45	< 1.04	NA
1,3-Dichlorobenzene	< 1.2	< 12	< 12	< 2.4	< 3.01	< 12	< 4.01	< 1.2	NA
1,4-Dichlorobenzene	< 1.2	< 12	< 12	< 2.4	< 3.01	< 12	< 4.01	< 1.2	NA
1,2-Dichlorobenzene	< 1.2	< 12	< 12	< 2.4	< 3.01	< 12	< 4.01	< 1.2	NA
1,2,4-Trichlorobenzene	< 1.48	< 14.8	< 14.8	< 2.97	< 3.71	< 14.8	< 4.95	< 1.48	NA
Hexachlorobutadiene	< 2.13	< 21.3	< 21.3	< 4.27	< 5.33	< 21.3	< 7.11	< 2.13	NA
Sample ID:	SG1	SG2	SG3	SG4	Soil Gas Duplicate (SG4)	SG5	SG6	Onsite Ambient Gas	Lower Explosive Limit (LEL)
COMPOUND	RESULTS Percent								%
Methane	< 0.159	< 0.159	< 0.151	< 0.152	< 0.147	< 0.136	< 0.148	0.0171	5.0

Notes:

<	Analyte value is less than the laboratory detection limit for the listed compound
*	US Environmental Protection Agency: Average National Ambient Outdoor Air VOCs, NYS Department of Health - Guidance For Evaluating Soil Vapor Intrusion in the State of New York, October 2006.
**	Air guideline values contained in NYS Department of Health - Guidance For Evaluating Soil Vapor Intrusion in the State of New York, October 2006.
	Values which have exceeded their respective NYSDOH Air Guideline values.
µg/m3	Micrograms per cubic meter
NA	No regulatory guidance value established

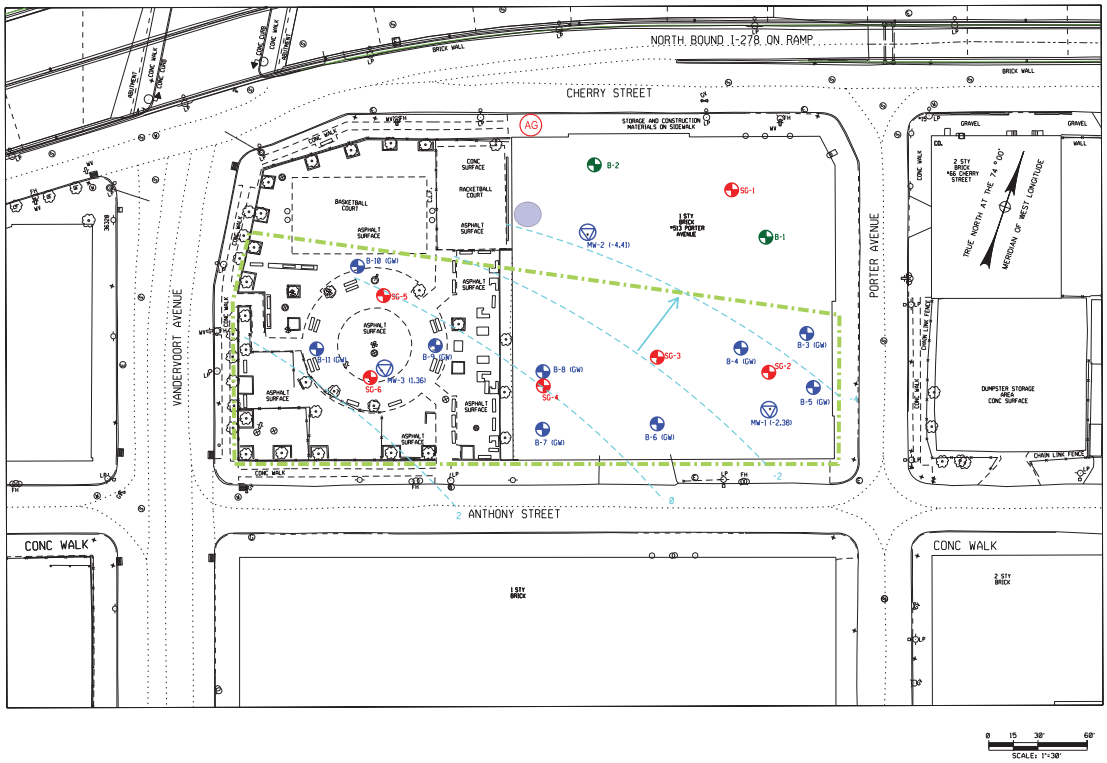
RED CROSSED OUT DATA ARE FOR POINTS LOCATED OFF OF THE ACME SITE (ADDED BY TRC FOR SMP)

FED. RD. REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

KOSCIUSZKO BRIDGE PROJECT

QUEENS AND KINGS COUNTIES

P.I.N. X729.77



Boring	Elevation	Northing	Easting
B-1	56.42	203071.2106	1001897.8621
B-2	52.49	203079.6869	1001782.6344
B-3	57.20	203022.7317	1001940.9466
B-4	57.40	203001.0300	1001905.1728
B-5	57.48	202992.2938	1001955.5592
B-6	53.51	202939.9011	1001870.9958
B-7	53.43	202914.0018	1001804.6940
B-8	53.74	202947.9433	1001793.4508
B-9	46.76	202941.9014	1001725.0727
B-10	46.73	202973.0833	1001663.6017
B-11	46.85	202916.4290	1001655.9329
MW-1	57.52	202971.0413	1001934.3475
MW-2	52.41	203037.4248	1001792.4962
MW-3	46.61	202916.5671	1001698.3457
SG-1	56.42	203092.2455	1001868.3559
SG-2	57.51	202992.3834	1001926.3688
SG-3	54.34	202976.6848	1001858.6421
SG-4	53.70	202940.7593	1001794.2179
SG-5	46.86	202961.0299	1001684.6518
SG-6	46.67	202909.3410	1001693.1416

Units: US Survey Feet
Horizontal Datum: NAD 83 - CORS 96
Vertical Datum: NAVD 88
State Plane Coordinate Zone LI 3104

LEGEND

B-1	SOIL BORING
B-1 (GW)	SOIL BORING WITH GRAB GROUNDWATER SAMPLE
MW (1.36)	PERMANENT MONITORING WELL GROUNDWATER ELEVATION
SG-1	SOIL GAS SAMPLE
AG	AMBIENT AIR SAMPLE
	GROUNDWATER ELVATION CONTOUR (FT AMSL)
	GROUNDWATER FLOW DIRECTION
	NEW PARK LIMITS (APPROXIMATE)

FIGURE 2
SAMPLE LOCATION PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

P EM ENVIRONMENTAL PLANNING & MANAGEMENT

DRAWING NO.	SCALE	DATE	REGION
FIG. 2	AS NOTED	MARCH 2014	II

513 PORTER AVENUE & SGT, DOUGHERTY PARK
BROOKLYN, NY

IN CHARGE OF ____ DESIGNED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DRAWN BY ____ CHECKED BY ____ DATE ____

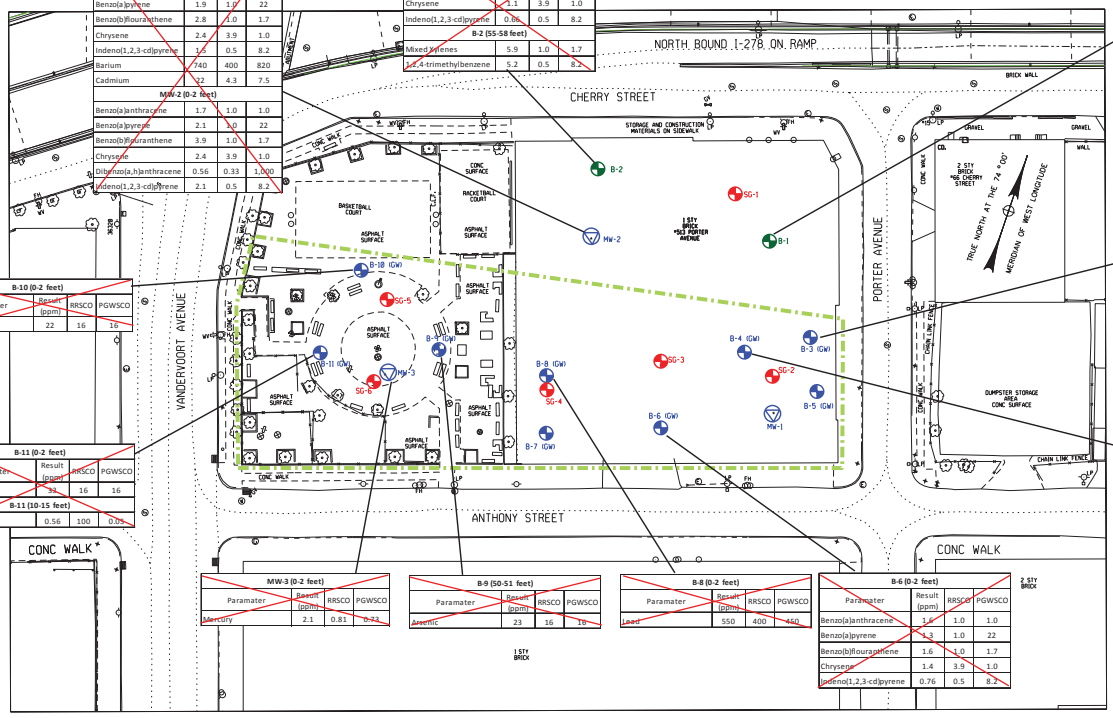
SFILE1

FED. RD. REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

KOSCIUSZKO BRIDGE PROJECT

QUEENS AND KINGS COUNTIES

P.I.N. X729.77



MW-2 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Benzo(a)anthracene	2.1	1.0	1.0
Benzo(a)pyrene	1.9	1.0	22
Benzo(b)flouranthene	2.8	1.0	1.7
Chrysene	2.4	3.9	1.0
Indeno(1,2,3-cd)pyrene	1.5	0.5	8.2
Barium	740	400	820
Cadmium	22	4.3	7.5
MW-2 (0-2 feet)			
Benzo(a)anthracene	1.7	1.0	1.0
Benzo(a)pyrene	2.1	1.0	22
Benzo(b)flouranthene	3.9	1.0	1.7
Chrysene	2.4	3.9	1.0
Dibenzo(a,h)anthracene	0.56	0.33	1,000
Indeno(1,2,3-cd)pyrene	2.1	0.5	8.2

B-2 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Benzo(b)flouranthene	1.3	1.0	1.7
Chrysene	1.1	3.9	1.0
Indeno(1,2,3-cd)pyrene	0.86	0.5	8.2
B-2 (55-58 feet)			
Mixed Xylenes	5.9	1.0	1.7
1,2,4-trimethylbenzene	5.2	0.5	8.2

B-1 (5-10 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Benzene	1.3	4.8	0.06
Toluene	2.2	100	0.7
Mixed Xylenes	2.03	100	1.6
Benzo(a)anthracene	2.6	1.0	1.0
Benzo(a)pyrene	3.2	1.0	22
Benzo(b)flouranthene	6.6	1.0	1.7
Benzo(k)flouranthene	1.9	3.9	1.7
Chrysene	4	3.9	1.0
Dibenzo(a,h)anthracene	0.84	0.33	1,000
Indeno(1,2,3-cd)pyrene	3.7	0.5	8.2
Arsenic	52	16	16

B-3 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Benzo(a)anthracene	3	1.0	1.0
Benzo(a)pyrene	2.8	1.0	22
Benzo(b)flouranthene	3.1	1.0	1.7
Chrysene	3	3.9	1.0
Dibenzo(a,h)anthracene	0.38	0.33	1,000
Indeno(1,2,3-cd)pyrene	1.7	0.5	8.2
Arsenic	74	16	16
Lead	6,400	400	450

B-4 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Tetrachloroethene (PCE)	2.2	19	1.3
Benzo(a)anthracene	1.4	1.0	1.0
Benzo(a)pyrene	1.2	1.0	22
Benzo(b)flouranthene	1.1	1.0	1.7
Chrysene	1.4	3.9	1.0
Indeno(1,2,3-cd)pyrene	1.1	0.5	8.2
Lead	640	400	450
Mercury	1.2	0.81	0.73

B-10 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Arsenic	22	16	16

B-11 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Arsenic	33	16	16
B-11 (10-15 feet)			
Acetone	0.56	100	0.05

MW-3 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Mercury	2.1	0.81	0.73

B-9 (50-51 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Arsenic	23	16	16

B-8 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Lead	550	400	450

B-6 (0-2 feet)			
Paramater	Result (ppm)	RRSCO	PGWSCO
Benzo(a)anthracene	1.6	1.0	1.0
Benzo(a)pyrene	1.3	1.0	22
Benzo(b)flouranthene	1.6	1.0	1.7
Chrysene	1.4	3.9	1.0
Indeno(1,2,3-cd)pyrene	0.76	0.5	8.2

RED CROSS OUT RESULTS INDICATES SOIL REMOVED OR LOCATED OFF OF THE ACME SITE

CHANGES MADE AND NOTE ADDED BY TRC FOR SMP

*ALL VALUES REPORTED AS PARTS PER MILLION (ppm)

LEGEND

B-1	SOIL BORING
B-1 (GW)	SOIL BORING WITH GRAB GROUNDWATER SAMPLE
MW	PERMANENT MONITORING WELL
SG-1	SOIL GAS SAMPLE
	NEW PARK LIMITS (APPROXIMATE)

SCALE: 1"=30'

FIGURE 3
SOIL RESULTS ABOVE RESTRICTED RESIDENTIAL AND PROTECTION OF GROUNDWATER VALUES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

PEM ENVIRONMENTAL PLANNING & MANAGEMENT

DRAWING NO.	SCALE	DATE	REGION
FIG. 3	AS NOTED	MARCH 2014	II

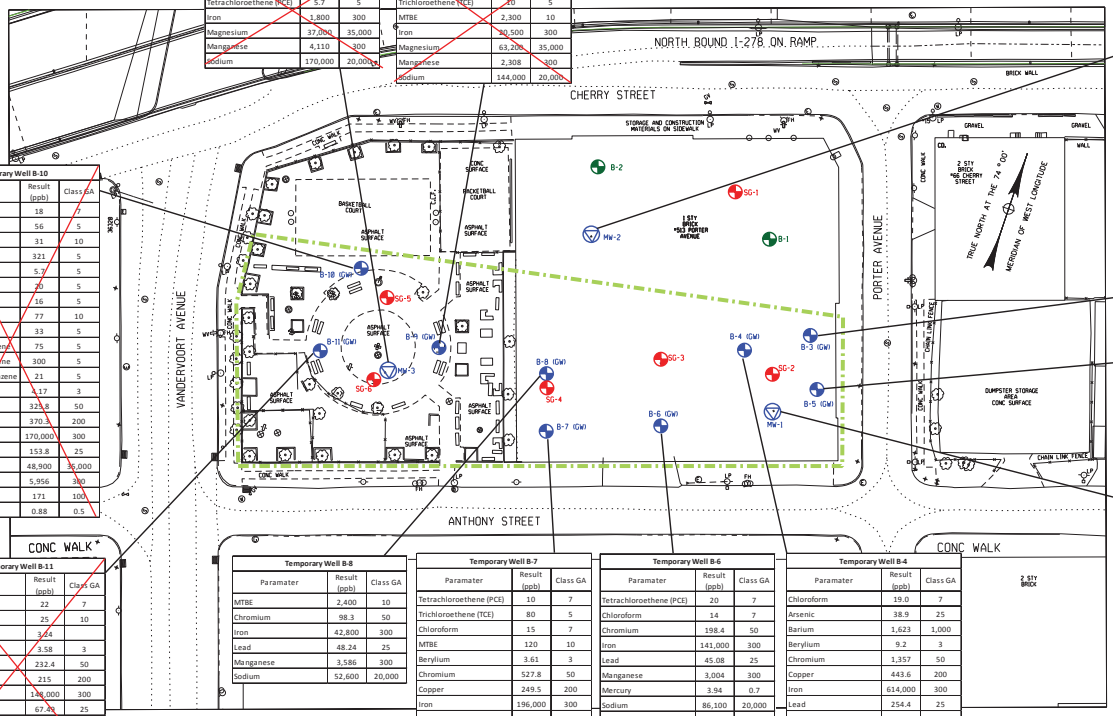
513 PORTER AVENUE & SGT. DOUGHERTY PARK
BROOKLYN, NY

DATE | CHECKED BY | DRAWN BY | CHECKED BY | ESTIMATED BY | CHECKED BY | DESIGNED BY | IN CHARGE OF

$FILE1$

FED. RD. REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

KOSCIUSZKO BRIDGE PROJECT
QUEENS AND KINGS COUNTIES
P.I.N. X729.77



MW-3		
Paramater	Result (ppb)	Class GA
Tetrachloroethene (PCE)	5.7	5
Iron	1,800	300
Magnesium	37,000	35,000
Manganese	4,110	300
Sodium	170,000	20,000

Temporary Well B-9		
Paramater	Result (ppb)	Class GA
Trichloroethene (TCE)	10	5
MTBE	2,300	10
Iron	20,500	300
Magnesium	63,200	35,000
Manganese	2,308	300
Sodium	144,000	20,000

Temporary Well B-10		
Paramater	Result (ppb)	Class GA
Chloroform	18	7
Ethylbenzene	56	5
MTBE	31	10
Mixed Xylenes	321	5
sec-Butylbenzene	5.7	5
Isopropylbenzene	20	5
p-Isopropyltoluene	16	5
Naphthalene	77	10
n-Propylbenzene	33	5
1,3,5-Trimethylbenzene	75	5
1,2,4-Trimethylbenzene	300	5
1,2,4,5-Trimethylbenzene	21	5
Berylium	3.17	3
Chromium	321.8	50
Copper	370.1	200
Iron	170,000	300
Lead	153.8	25
Magnesium	48,900	35,000
Manganese	5,956	300
Nickel	171	100
Thallium	0.88	0.5

Temporary Well B-11		
Paramater	Result (ppb)	Class GA
Chloroform	22	7
MTBE	25	10
Antimony	3.24	
Berylium	3.58	3
Chromium	232.4	50
Copper	215	200
Iron	148,000	300
Lead	67.49	25
Manganese	5,256	300
Nickel	126.2	100
Sodium	24,600	20,000
Thallium	0.96	0.5

Temporary Well B-8		
Paramater	Result (ppb)	Class GA
MTBE	2,400	10
Chromium	98.3	50
Iron	42,800	300
Lead	48.24	25
Manganese	3,586	300
Sodium	52,600	20,000

Temporary Well B-7		
Paramater	Result (ppb)	Class GA
Tetrachloroethene (PCE)	10	7
Trichloroethene (TCE)	80	5
Chloroform	15	7
MTBE	120	10
Berylium	3.61	3
Chromium	527.8	50
Copper	249.5	200
Iron	196,000	300
Lead	65.99	25
Magnesium	50,500	35,000
Manganese	9,574	300
Nickel	170.9	100
Sodium	82,210	20,000
Thallium	0.97	0.5

Temporary Well B-6		
Paramater	Result (ppb)	Class GA
Tetrachloroethene (PCE)	20	7
Chloroform	14	7
Chromium	198.4	50
Iron	141,000	300
Lead	45.08	25
Manganese	3,004	300
Mercury	3.94	0.7
Sodium	86,100	20,000
Thallium	0.61	0.5

Temporary Well B-4		
Paramater	Result (ppb)	Class GA
Chloroform	19.0	7
Arsenic	38.9	25
Barium	1,623	1,000
Berylium	9.2	3
Chromium	1,357	50
Copper	443.6	200
Iron	614,000	300
Lead	254.4	25
Magnesium	81,300	35,000
Manganese	10,000	300
Nickel	303.5	100
Selenium	10.6	10
Thallium	4.2	0.5

MW-2		
Paramater	Result (ppb)	Class GA
Tetrachloroethene (PCE)	70	5
Trichloroethene (TCE)	14	5
Benzene	32	1
Ethylbenzene	19	5
Toluene	8.7	5
Mixed Xylenes	103	5
Naphthalene	19	10
1,3,5-Trimethylbenzene	6.8	5
1,2,4-Trimethylbenzene	24	5
Antimony	24	3
Magnesium	40,000	35,000
Manganese	3,310	300
Sodium	160,000	20,000

Temporary Well B-3		
Paramater	Result (ppb)	Class GA
Chloroform	9.0	7

Temporary Well B-5		
Paramater	Result (ppb)	Class GA
Chloroform	11.0	7
Chromium	310	50
Iron	41,700	300
Lead	51.5	25
Manganese	2,500	300
Sodium	23,900	20,000

MW-1		
Paramater	Result (ppb)	Class GA
Tetrachloroethene (PCE)	57	5
Trichloroethene (TCE)	5.8	5
Iron	14,000	300
Manganese	3,860	300
Sodium	85,000	20,000

LEGEND

B-1	SOIL BORING
B-1 (GW)	SOIL BORING WITH GRAB GROUNDWATER SAMPLE
MW	PERMANENT MONITORING WELL
SG-1	SOIL GAS SAMPLE
	NEW PARK LIMITS (APPROXIMATE)

RED CROSSED OUT DATA
LOCATED OFF OF ACME SITE

CHANGES MADE AND NOTE ADDED BY TRC FOR SMP

* ALL VALUES REPORTED AS PARTS PER BILLION (ppb)

0 15 30' 60'
SCALE: 1"=30'

FIGURE 4
GROUNDWATER RESULTS
ABOVE CLASS GA VALUES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

PEM ENVIRONMENTAL PLANNING & MANAGEMENT
1983 BROOK AVE, SUITE 102, LAKE SUCCESS, NEW YORK 11042

DRAWING NO.	SCALE	DATE	REGION
FIG. 4	AS NOTED	MARCH 2014	II

513 PORTER AVENUE & SGT. DOUGHERTY PARK
BROOKLYN, NY

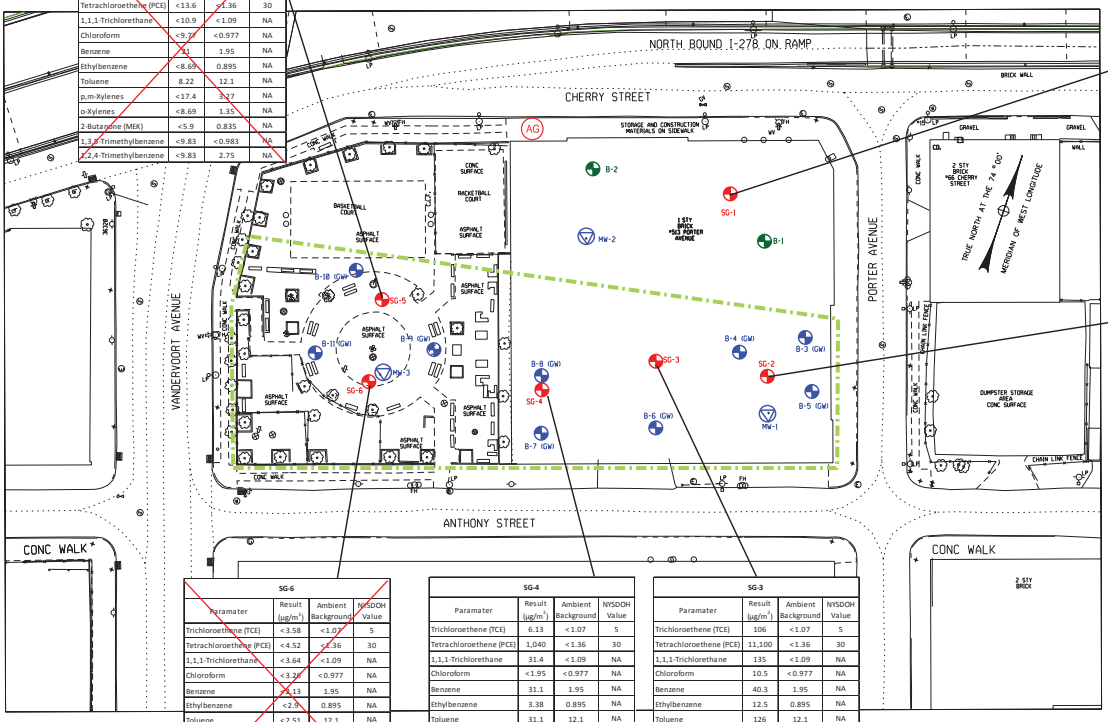
DATE
CHECKED BY
DRAWN BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
$FILE1$

FED. RD. REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

KOSCIUSZKO BRIDGE PROJECT

QUEENS AND KINGS COUNTIES

P.I.N. X729.77



SG-5			
Paramater	Result ($\mu g/m^3$)	Ambient Background	NYSDOH Value
Trichloroethene (TCE)	<10.7	<1.07	5
Tetrachloroethene (PCE)	<13.6	<1.36	30
1,1,1-Trichlorethane	<10.9	<1.09	NA
Chloroform	<9.77	<0.977	NA
Benzene	21	1.95	NA
Ethylbenzene	<8.69	0.895	NA
Toluene	8.22	12.1	NA
p,m-Xylenes	<17.4	3.27	NA
o-Xylenes	<8.69	1.35	NA
2-Butanone (MEK)	<5.9	0.835	NA
1,3,5-Trimethylbenzene	<9.83	<0.983	NA
1,2,4-Trimethylbenzene	<9.83	2.75	NA

SG-1			
Paramater	Result ($\mu g/m^3$)	Ambient Background	NYSDOH Value
Trichloroethene (TCE)	1.31	<1.07	5
Tetrachloroethene (PCE)	13.2	<1.36	30
1,1,1-Trichlorethane	43.3	<1.09	NA
Chloroform	<0.977	<0.977	NA
Benzene	5.78	1.95	NA
Ethylbenzene	4.6	0.895	NA
Toluene	7.65	12.1	NA
p,m-Xylenes	15.9	3.27	NA
o-Xylenes	6.43	1.35	NA
2-Butanone (MEK)	2.2	0.835	NA
1,3,5-Trimethylbenzene	3.38	<0.983	NA
1,2,4-Trimethylbenzene	5.11	2.75	NA

SG-2			
Paramater	Result ($\mu g/m^3$)	Ambient Background	NYSDOH Value
Trichloroethene (TCE)	21.9	<1.07	5
Tetrachloroethene (PCE)	2,820	<1.36	30
1,1,1-Trichlorethane	88.9	<1.09	NA
Chloroform	72.3	<0.977	NA
Benzene	94.2	1.95	NA
Ethylbenzene	<8.69	0.895	NA
Toluene	31.8	12.1	NA
p,m-Xylenes	<17.4	3.27	NA
o-Xylenes	<8.69	1.35	NA
2-Butanone (MEK)	65.8	0.835	NA
1,3,5-Trimethylbenzene	<9.83	<0.983	NA
1,2,4-Trimethylbenzene	<9.83	2.75	NA

SG-6			
Paramater	Result ($\mu g/m^3$)	Ambient Background	NYSDOH Value
Trichloroethene (TCE)	<3.58	<1.07	5
Tetrachloroethene (PCE)	<4.52	<1.36	30
1,1,1-Trichlorethane	<3.64	<1.09	NA
Chloroform	<3.26	<0.977	NA
Benzene	2.13	1.95	NA
Ethylbenzene	<2.9	0.895	NA
Toluene	<2.51	12.1	NA
p,m-Xylenes	<5.78	3.27	NA
o-Xylenes	<2.9	1.35	NA
2-Butanone (MEK)	4.95	0.835	NA
1,3,5-Trimethylbenzene	<3.28	<0.983	NA
1,2,4-Trimethylbenzene	<3.28	2.75	NA

SG-4			
Paramater	Result ($\mu g/m^3$)	Ambient Background	NYSDOH Value
Trichloroethene (TCE)	6.13	<1.07	5
Tetrachloroethene (PCE)	1,040	<1.36	30
1,1,1-Trichlorethane	31.4	<1.09	NA
Chloroform	<1.95	<0.977	NA
Benzene	31.1	1.95	NA
Ethylbenzene	3.38	0.895	NA
Toluene	31.1	12.1	NA
p,m-Xylenes	8.43	3.27	NA
o-Xylenes	3.58	1.35	NA
2-Butanone (MEK)	27.3	0.835	NA
1,3,5-Trimethylbenzene	<1.97	<0.983	NA
1,2,4-Trimethylbenzene	2.77	2.75	NA

SG-3			
Paramater	Result ($\mu g/m^3$)	Ambient Background	NYSDOH Value
Trichloroethene (TCE)	106	<1.07	5
Tetrachloroethene (PCE)	11,100	<1.36	30
1,1,1-Trichlorethane	135	<1.09	NA
Chloroform	10.5	<0.977	NA
Benzene	40.3	1.95	NA
Ethylbenzene	12.5	0.895	NA
Toluene	126	12.1	NA
p,m-Xylenes	39.6	3.27	NA
o-Xylenes	13.3	1.35	NA
2-Butanone (MEK)	12.6	0.835	NA
1,3,5-Trimethylbenzene	<9.83	<0.983	NA
1,2,4-Trimethylbenzene	<9.83	2.75	NA

LEGEND

B-1	SOIL BORING
B-1 (GW)	SOIL BORING WITH GRAB GROUNDWATER SAMPLE
MW	PERMANENT MONITORING WELL
SG-1	SOIL GAS SAMPLE
AG	AMBIENT AIR SAMPLE
	NEW PARK LIMITS (APPROXIMATE)

RED CROSSED OUT DATA LOCATED OFF OF ACME SITE

CHANGES MADE AND NOTE ADDED BY TRC FOR SMP

* ALL VALUES REPORTED AS MICROGRAMS PER CUBIC METER (ug/m^3)

SCALE: 1"=30'

FIGURE 5
SUMMARY OF SOIL VAPOR RESULTS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

PEM ENVIRONMENTAL PLANNING & MANAGEMENT

DRAWING NO.	SCALE	DATE	REGION
FIG. 5	AS NOTED	MARCH 2014	II

513 PORTER AVENUE & SGT. DOUGHERTY PARK
BROOKLYN, NY

DATE | CHECKED BY | DRAWN BY | CHECKED BY | ESTIMATED BY | CHECKED BY | DESIGNED BY | IN CHARGE OF

$FILE$

DRAFT SUPPLEMENTAL SITE CHARACTERIZATION FINDINGS REPORT

FORMER ACME FACILITY
513 PORTER AVENUE
BROOKLYN, NEW YORK

NYSDOT KOSCIUSZKO BRIDGE PROJECT
(NYSDOT PIN X729.77)

EPM Project No. 26052

Prepared for:
Parsons Brinkerhoff
One Penn Plaza
New York, NY 10119

For submittal to:
The New York State Department of Transportation
Region 11

Prepared by:

ENVIRONMENTAL PLANNING & MANAGEMENT, INC

1983 Marcus Avenue, Suite 109
Lake Success, New York 11042

June 23, 2014

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn, NY 11222 (Page 1 of 5)

Sample ID:	B3-A (4-6)	B3-B (2-4)	B3-C (0-2)	B3-C (2-4)	B3-C (4-6)	B3-D (0-2)	B3-D (4-6)	B3-E (0-2)	B3-E (2-4)	B3-F (0-2)	B4-A (0-2)	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	4-6	2-4	0-2	2-4	4-6	0-2	4-6	0-2	2-4	0-2	0-2				
COMPOUND												(ppm)			
Volatile Organic Compounds (VOCs)															
Tetrachloroethene				4.7	3.1	2.9						1.3	19	500	1.3
Acetone	0.21					0.22 J						0.05	100	500	0.05
Methylene Chloride												0.05	100	500	0.05
2-Butanone												0.12	100	500	0.12
Naphthalene												12	100	500	12
Toluene												0.7	100	500	0.7
4-Methyl-2-pentanone												1*	NA	NA	NA
Metals															
Arsenic, Total												13	16	16	16
Barium, Total								780				350	400	400	820
Cadmium, Total												2.5	4.3	9.3	7.5
Chromium, Total												30 **	180 **	1,500 **	NS
Lead, Total		250	120	290		100		140	78	240	320	63	400	1,000	450
Mercury, Total		0.25	0.39	0.19		1.5	0.23	0.28	0.22		0.93	0.18	0.81	2.8	0.73
Selenium, Total												3.9	180	1,500	4
TCLP Metals															
												RCRA Regulatory Limits (ppm)			
Lead, TCLP												5			

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn, NY 11222 (Page 2 of 5)

Sample ID:	B4-C (0-2)	B4-C (5-10)	B4-D (0-2)	B4-E (0-2)	B4-E (15-20)	B4-F (0-2)	B4-F (5-10)	B4-G (0-2)	Soil Duplicate 2 from B4-H (5-10)	MW2-A (0-2)	MW2-B (5-10)	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	0-2	5-10	0-2	0-2	15-20	0-2	5-10	0-2	5-10	0-2	5-10				
COMPOUND												(ppm)			
Volatile Organic Compounds (VOCs)															
Tetrachloroethene												1.3	19	500	1.3
Acetone												0.05	100	500	0.05
Methylene Chloride						0.16 J			0.27 J			0.05	100	500	0.05
2-Butanone												0.12	100	500	0.12
Naphthalene												12	100	500	12
Toluene												0.7	100	500	0.7
4-Methyl-2-pentanone												1*	NA	NA	NA
Metals															
Arsenic, Total			15								25	13	16	16	16
Barium, Total			370									350	400	400	820
Cadmium, Total			3.1									2.5	4.3	9.3	7.5
Chromium, Total			37		62							30 **	180 **	1,500 **	NS
Lead, Total	81	130	620	650	250	170	64	240		140		63	400	1,000	450
Mercury, Total	0.66	0.2	0.67			0.31		0.46				0.18	0.81	2.8	0.73
Selenium, Total												3.9	180	1,500	4
TCLP Metals															
												RCRA Regulatory Limits (ppm)			
Lead, TCLP				5.2								5			

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn, NY 11222 (Page 3 of 5)

Sample ID:	MW2-C (15-20)	MW2-D (5-10)	MW2-E (0-2)	MW2-F (10-15)	MW2-G (0-2)	MW2-G (5-10)	MW2-H (5-10)	MW2-H (15-20)	MW2-I (5-10)	MW2-I (15-20)	Soil Duplicate 5 from MW2-I (15-20)	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	15-20	5-10	0-2	10-15	0-2	5-10	5-10	15-20	5-10	15-20	15-20				
COMPOUND												(ppm)			
Volatile Organic Compounds (VOCs)															
Tetrachloroethene												1.3	19	500	1.3
Acetone								0.055				0.05	100	500	0.05
Methylene Chloride												0.05	100	500	0.05
2-Butanone											0.13 J	0.12	100	500	0.12
Naphthalene										74		12	100	500	12
Toluene												0.7	100	500	0.7
4-Methyl-2-pentanone												1*	NA	NA	NA
Metals															
Arsenic, Total		15	18	23			22					13	16	16	16
Barium, Total												350	400	400	820
Cadmium, Total												2.5	4.3	9.3	7.5
Chromium, Total												30 **	180 **	1,500 **	NS
Lead, Total	78		200				120		65			63	400	1,000	450
Mercury, Total			0.44		0.27	0.66				0.2	0.33	0.18	0.81	2.8	0.73
Selenium, Total												3.9	180	1,500	4
TCLP Metals															
												RCRA Regulatory Limits (ppm)			
Lead, TCLP												5			

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn NY 11222 (Page 4 of 5)

Sample ID:	S-1 (0-0.5)	S-2 (0-2)	S-2 (5-10)	S-3 (0-2)	S-3 (5-10)	S-4 (0-2)	S-5 (5-10)	S-6 (0-2)	S-6 (5-10)	SG1-A (0-2)	SG1-A (5-10)	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	0-0.5'	0-2	5-10	0-2	5-10	0-2	5-10	0-2	5-10	0-2	5-10				
COMPOUND	RESULTS (ppm)											(ppm)			
Volatile Organic Compounds (VOCs)															
Tetrachloroethene												1.3	19	500	1.3
Acetone				5.4								0.05	100	500	0.05
Methylene Chloride												0.05	100	500	0.05
2-Butanone												0.12	100	500	0.12
Naphthalene												12	100	500	12
Toluene				33								0.7	100	500	0.7
4-Methyl-2-pentanone				7.8								1*	NA	NA	NA
Metals															
Arsenic, Total									19		26	13	16	16	16
Barium, Total												350	400	400	820
Cadmium, Total			5.2									2.5	4.3	9.3	7.5
Chromium, Total	61		130			41						30 **	180 **	1,500 **	NS
Lead, Total	190	96	820	66	100	1300		66	310	190	540	63	400	1,000	450
Mercury, Total			1.1		0.82		0.31	0.19	0.48	1.4	1.7	0.18	0.81	2.8	0.73
Selenium, Total									5.8		10	3.9	180	1,500	4
TCLP Metals															
												RCRA Regulatory Limits (ppm)			
Lead, TCLP						35						5			

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

Table 1
Summary of Soil Analytical Results Above Regulatory Guidance Values
513 Porter Avenue, Brooklyn, NY 11222 (Page 5 of 5)

Sample ID:	SG1-A (15-20)	SG3-A (0-2)	SG3-B (0-2)	SG3-D (5-10)	SG3-E (0-2)	SG3-F (0-2)	SG3-G (0-2)	Part 375 Unrestricted Use SCO	Part 375 Restricted Residential Use SCO	Part 375 Commercial Use SCO	Part 375 Protection of Groundwater SCO
Sample Depth (feet bgs):	15-20	0-2	0-2	5-10	0-2	0-2	0-2				
COMPOUND								(ppm)			
Volatile Organic Compounds (VOCs)											
Tetrachloroethene				4.8				1.3	19	500	1.3
Acetone								0.05	100	500	0.05
Methylene Chloride		0.2 J						0.05	100	500	0.05
2-Butanone								0.12	100	500	0.12
Naphthalene								12	100	500	12
Toluene								0.7	100	500	0.7
4-Methyl-2-pentanone								1*	NA	NA	NA
Metals											
Arsenic, Total								13	16	16	16
Barium, Total								350	400	400	820
Cadmium, Total								2.5	4.3	9.3	7.5
Chromium, Total							110	30 **	180 **	1,500 **	NS
Lead, Total	82		100		92	140	120	63	400	1,000	450
Mercury, Total	0.19							0.18	0.81	2.8	0.73
Selenium, Total								3.9	180	1,500	4
TCLP Metals											
								RCRA Regulatory Limits (ppm)			
Lead, TCLP								5			

Notes:

*	Where Part 375 SCO is unavailable, the lowest available CP-51 SCO is used.
**	SCOs are for Trivalent Chromium. The reported results are for Total Chromium.
	Concentration above the indicated NYSDEC Part 375 SCO for Unrestricted Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Restricted Residential Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Commercial Use.
	Concentration above the indicated NYSDEC Part 375 SCO for Protection of Groundwater
BGS	Below ground surface.
CP-51	NYSDEC Commissioner Policy 51.
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
NS	Not specified
NA	No regulatory guidance value established.
PPM	Parts per million.
SCO	NYSDEC Remedial Program Soil Cleanup Objective; Subpart 375-6(a,b), December, 2006.

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

TABLE 4
TCLP Metals in Soil (Page 1 of 3)
513 Porter Avenue, Brooklyn, NY 11222

Sample ID:	B3-A (0-2)	B3-A (4-6)	B3-B (0-2)	B3-B (2-4)	B3-B (4-6)	B3-C (0-2)	B3-C (2-4)	B3-C (4-6)	B3-D (0-2)	B3-D (2-4)	B3-D (4-6)	B3-E (0-2)	B3-E (2-4)	B3-E (4-6)	B3-F (0-2)	B3-F (2-4)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	0-2	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2	2-4	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0
Barium, TCLP	0.36 J	0.4 J	0.3 J	0.37 J	0.46 J	0.54	1	1	0.28 J	0.36 J	0.41 J	0.6	0.55	0.54	0.46 J	0.45 J	100
Cadmium, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.04 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.01 J	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Chromium, TCLP	< 0.2	< 0.2	< 0.2	0.02 J	0.08 J	< 0.2	< 0.2	< 0.2	0.03 J	< 0.2	< 0.2	0.03 J	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	< 0.5	< 0.5	0.25 J	0.14 J	0.92	0.17 J	0.34 J	< 0.5	0.03 J	0.02 J	0.03 J	0.13 J	0.04 J	< 0.5	4	0.03 J	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Sample ID:	B3-F (4-6)	B4-A (0-2)	B4-A (5-10)	B4-A (15-20)	Soil Duplicate 1 from B4-A (15-20)	B4-B (0-2)	B4-B (5-10)	B4-B (15-20)	B4-C (0-2)	B4-C (5-10)	B4-C (15-20)	B4-D (0-2)	B4-D (5-10)	B4-D (15-20)	B4-E (0-2)	B4-E (10-15)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	4-6	0-2	5-10	15-20	15-20	0-2	5-10	15-20	0-2	5-10	15-20	0-2	5-10	15-20	0-2	10-15	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0
Barium, TCLP	0.5	0.44 J	0.21 J	0.33 J	0.33 J	0.43 J	0.32 J	0.35 J	0.59	0.55	0.46 J	0.52	0.45 J	0.49 J	0.61	0.32 J	100
Cadmium, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.02 J	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Chromium, TCLP	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	0.02 J	0.6	< 0.5	< 0.5	< 0.5	0.18 J	< 0.5	< 0.5	0.1 J	0.25 J	0.06 J	0.07 J	0.46 J	0.03 J	5.2	< 0.5	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.03 J	0.04 J	< 0.5	0.03 J	< 0.5	< 0.5	< 0.5	0.03 J	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Sample ID:	B4-E (15-20)	B4-F (0-2)	B4-F (5-10)	B4-F (15-20)	B4-G (0-2)	B4-G (5-10)	B4-G (15-20)	B4-H (0-2)	B4-H (5-10)	Soil Duplicate 2 from B4-H (5-10)	B4-H (15-20)	MW2-A (0-2)	MW2-A (5-10)	MW2-A (15-20)	MW2-B (0-2)	MW2-B (5-10)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	15-20	0-2	5-10	15-20	0-2	5-10	15-20	0-2	5-10	5-10	15-20	0-2	5-10	15-20	0-2	5-10	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0
Barium, TCLP	0.71	0.78	0.44 J	0.35 J	0.41 J	0.33 J	0.54	0.23 J	0.35 J	0.32 J	0.46 J	0.58	0.46 J	0.28 J	0.88	0.5	100
Cadmium, TCLP	< 0.1	0.01 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Chromium, TCLP	0.19 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.03 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	1.8	0.25 J	0.02 J	< 0.5	0.73	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.02 J	0.24 J	0.08 J	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Notes:

*	As expressed in NYSDEC Part 371.3(e)
<	Analyte value is less than the laboratory detection limit for the listed compound
	Concentration above toxicity characteristic
BGS	Below ground surface
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
mg/L	Milligrams per liter
RCRA	Resource Conservation and Recovery Act

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

TABLE 4
TCLP Metals in Soil (Page 2 of 3)
513 Porter Avenue, Brooklyn, NY 11222

Sample ID:	MW2-B (10-15)	MW2-B (15-20)	MW2-C (0-2)	MW2-C (5-10)	MW2-C (15-20)	MW2-D (0-2)	MW2-D (5-10)	MW2-D (15-20)	Soil Duplicate 4 from MW2-D (15-20)	MW2-E (0-2)	MW2-E (5-10)	MW2-E (15-20)	MW2-F (0-2)	MW2-F (20-25)	MW2-F (5-10)	MW2-F (10-15)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	10-15	15-20	0-2	5-10	15-20	0-2	5-10	15-20	15-20	0-2	5-10	15-20	0-2	0-2	5-10	10-15	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.05 J	5.0
Barium, TCLP	0.14 J	0.29 J	0.4 J	0.42 J	0.42 J	0.61	0.43 J	0.3 J	0.28 J	0.85	0.59	0.45 J	0.73	0.51	0.37 J	0.17 J	100
Cadmium, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.01 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Chromium, TCLP	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	0.05 J	< 0.5	0.03 J	0.06 J	0.62	0.06 J	0.06 J	0.03 J	< 0.5	0.88	0.03 J	0.02 J	< 0.5	0.03 J	< 0.5	0.04 J	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Sample ID:	MW2-F (15-20)	MW2-F (25-30)	MW2-G (0-2)	MW2-G (5-10)	MW2-G (15-20)	MW2-H (0-2)	MW2-H (5-10)	MW2-H (10-15)	MW2-H (15-20)	MW2-I (0-2)	MW2-I (5-10)	MW2-I (15-20)	Soil Duplicate 5 from MW2-I (15-20)	S-1 (0-0.5)	S-2 (0-2)	S-2 (5-10)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	15-20	25-30	0-2	5-10	15-20	0-2	5-10	10-15	15-20	0-2	5-10	15-20	15-20	0-0.5'	0-2	5-10	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 0.04	0.05 J	< 1	0.04 J	0.04 J	< 1	5.0
Barium, TCLP	0.46 J	0.35 J	0.52	0.47 J	0.35 J	0.58	0.22 J	0.34 J	0.38 J	0.52	0.52	0.45 J	0.44 J	0.3 J	0.72	0.55	100
Cadmium, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.01 J	0.03 J	1.0
Chromium, TCLP	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.03 J	< 0.2	< 0.2	< 0.2	< 0.2	0.03 J	< 0.2	0.2	5.0
Lead, TCLP	< 0.5	0.03 J	0.06 J	0.04 J	0.05 J	0.03 J	0.18 J	0.26 J	0.07 J	< 0.5	< 0.12	0.04 J	0.07 J	0.06 J	0.15 J	4.7	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.03 J	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Sample ID:	S-2 (15-20)	S-3 (0-2)	S-3 (5-10)	S-3 (10-15)	S-3 (15-20)	~~S-4 (0-2)~~	S-5 (0-2)	S-5 (5-10)	S-5 (15-20)	S-6 (0-2)	S-6 (5-10)	S-6 (15-20)	Soil Duplicate 6 from S-6 (15-20)	SG1-A (0-2)	SG1-A (5-10)	SG1-A (15-20)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	15-20	0-2	5-10	10-15	15-20	0-2	0-2	5-10	15-20	0-2	5-10	15-20	15-20	0-2	5-10	15-20	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	0.05 J	< 1	0.03 J	0.04 J	< 1	0.06 J	< 1	0.02 J	0.02 J	0.03 J	0.06 J	< 1	< 1	< 1.0	< 1.0	< 1.0	5.0
Barium, TCLP	0.33 J	0.24 J	0.53	0.4 J	0.44 J	0.69	0.54	0.36 J	0.33 J	0.61	0.29 J	0.36 J	0.35 J	0.14 J	0.35 J	0.49 J	100
Cadmium, TCLP	< 0.1	0.01 J	< 0.1	< 0.1	< 0.1	0.03 J	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Chromium, TCLP	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.03 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	< 0.5	0.1 J	0.04 J	< 0.5	< 0.5	35	0.11 J	0.06 J	< 0.5	0.07 J	2.3	< 0.5	< 0.5	0.2 J	0.1 J	0.07 J	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	0.04 J	< 0.5	< 0.5	0.04 J	0.03 J	0.03 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Notes:

*	As expressed in NYSDEC Part 371.3(e)
<	Analyte value is less than the laboratory detection limit for the listed compound
	Concentration above toxicity characteristic
BGS	Below ground surface
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
mg/L	Milligrams per liter
RCRA	Resource Conservation and Recovery Act

RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

TABLE 4
TCLP Metals in Soil (Page 3 of 3)
513 Porter Avenue, Brooklyn, NY 11222

Sample ID:	SG3-A (0-2)	SG3-A (5-10)	SG3-A (15-20)	SG3-B (0-2)	SG3-B (5-10)	SG3-B (15-20)	SG3-C (0-2)	SG3-C (5-10)	SG3-C (15-20)	SG3-D (0-2)	SG3-D (5-10)	SG3-D (15-20)	SG3-E (0-2)	SG3-E (5-10)	SG3-E (15-20)	SG3-F (0-2)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	0-2	5-10	15-20	0-2	5-10	15-20	0-2	5-10	15-20	0-2	5-10	15-20	0-2	5-10	15-20	0-2	
COMPOUND	RESULTS (mg/L)																(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.02 J	0.03 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0
Barium, TCLP	0.36 J	0.39 J	0.35 J	0.72	0.59	0.43 J	0.39 J	0.32 J	0.45 J	0.83	0.36 J	0.57	0.62	0.42 J	0.57	0.56	100
Cadmium, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	1.0
Chromium, TCLP	< 0.2	< 0.2	0.03 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	0.08 J	< 0.5	< 0.5	0.36 J	< 0.5	< 0.5	0.02 J	< 0.5	< 0.5	0.12 J	0.3 J	< 0.5	0.31 J	0.02 J	< 0.5	0.39 J	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.03 J	< 0.5	< 0.5	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Sample ID:	SG3-F (5-10)	SG3-F (15-20)	Soil Duplicate 3 from SG3-F (15-20)	SG3-G (0-2)	SG3-G (5-10)	SG3-G (15-20)	RCRA Regulatory Limits*
Sample Depth (feet bgs):	5-10	15-20	15-20	0-2	5-10	15-20	
COMPOUND	RESULTS (mg/L)						(mg/L)
Arsenic, TCLP	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0
Barium, TCLP	0.49 J	0.45 J	0.33 J	0.73	0.36 J	0.31 J	100
Cadmium, TCLP	< 0.1	< 0.1	< 0.1	0.01 J	< 0.1	< 0.1	1.0
Chromium, TCLP	0.02 J	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	5.0
Lead, TCLP	< 0.5	< 0.5	< 0.5	0.14 J	0.09 J	< 0.5	5.0
Mercury, TCLP	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.2
Selenium, TCLP	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.0
Silver, TCLP	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	5.0

Notes:

*	As expressed in NYSDEC Part 371.3(e)
<	Analyte value is less than the laboratory detection limit for the listed compound
	Concentration above toxicity characteristic
BGS	Below ground surface
J	Analyte concentration is an estimate due to detection below the laboratory reporting limit.
mg/L	Milligrams per liter
RCRA	Resource Conservation and Recovery Act

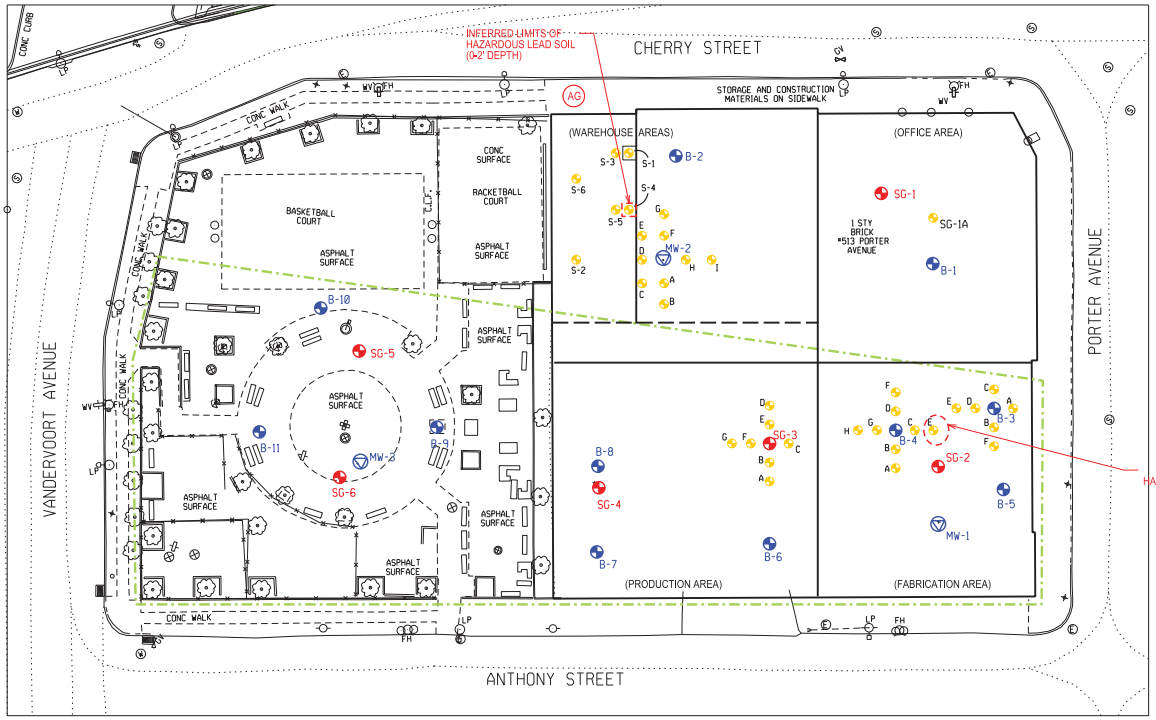
RED CROSSED OUT DATA INDICATES SOIL REMOVED (ADDED BY TRC FOR SMP)

FED. RD. REG. NO.	STATE	CONTRACT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.			

KOSCIUSZKO BRIDGE PROJECT

QUEENS AND KINGS COUNTIES

P.I.N. X729.77



0 20' 40' 80'

SCALE: 1"=40'

LEGEND

B3-A	SUPPLEMENTAL BORING (MAY 2014)
B-1	SOIL BORING (FEB. 2014)
MW	PERMANENT MONITORING WELL (FEB. 2014)
SG-1	SOIL GAS SAMPLE (FEB. 2014)
AG	AMBIENT AIR SAMPLE (FEB. 2014)
	NEW PARK LIMITS (APPROXIMATE)

FIGURE 2
SUPPLEMENTAL SAMPLE LOCATION PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

P EM ENVIRONMENTAL PLANNING & MANAGEMENT

DRAWING NO.	SCALE	DATE	REGION
FIG. 2	AS NOTED	JUNE 2014	II

513 PORTER AVENUE & SGT, DOUGHERTY PARK
BROOKLYN, NY

DATE ____ CHECKED BY ____ DRAWN BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

$FILE1$

ENVIRONMENTAL
PLANNING &
MANAGEMENT, INC.

August 27, 2014

Mr. Michael Abrahams
Parsons Brinckerhoff
One Penn Plaza
New York, NY 10019

Re: NYSDOT Kosciuszko Bridge Reconstruction Project
Groundwater Sampling Results for Compound Specific Isotope Analysis
513 Porter Avenue, Brooklyn, NY

Dear Mr. Abrahams:

Attached are the results of Compound Specific Isotope Analysis (CSIA) performed on groundwater samples collected by Environmental Planning & Management (EPM) on behalf of NYSDOT in connection with the former Acme Steel property at 513 Porter Avenue, Brooklyn, NY. The samples were collected at the request of NYSDEC on May 29 and May 30, 2014 utilizing low flow sampling procedures from three onsite wells at 513 Porter Avenue identified as wells MW-1, MW-2 and MW-3, and from two offsite wells identified as DEC-005 and DEC-026. The well locations are shown on the attached site plan.

The purpose of the CSIA was to determine if the former Acme Steel Company operation at 513 Porter Avenue could have contributed to chlorinated solvent contamination in underlying groundwater. Groundwater in the vicinity of 513 Porter Avenue is known to be impacted with tetrachloroethene (PCE) and trichloroethene (TCE). A known source of these solvents to groundwater is the south adjacent and hydraulically upgradient property across Anthony Street that was also formerly occupied by Acme Steel.

EPM performed soil sampling at 513 Porter Avenue in January and May 2014, the results of which are reported in the *Draft Supplemental Site Characterization Findings Report for the Former Acme Facility at 513 Porter Avenue, June 23, 2014, EPM, Inc.* The prior soil testing identified concentrations of PCE in five shallow soil samples at concentrations ranging from 2.2 parts per million (ppm) to 4.8 ppm. These PCE concentrations exceed the NYSDEC Part 375 Protection of Groundwater value of 1.3 ppm for PCE. The PCE detected in soils at 513 Porter Avenue was limited to shallow soils no deeper than 6 feet below grade. Groundwater is located approximately 50 feet below grade at the site. TCE was not detected in any of the soil samples collected from the site at concentrations exceeding the Protection of Groundwater value for TCE.

1983 Marcus Ave., Suite 109 • Lake Success, NY 11042 • (516) 328-1194 • Fax (516) 328-1381

Groundwater samples were collected from the five wells with a QED SamplePro bladder pump. Dedicated Teflon-lined tubing was used to purge and sample the monitoring wells. Measurements for water table draw-down, temperature, pH, redox potential, conductivity, dissolved oxygen, and turbidity were recorded throughout the purging process, with purging considered complete when these values stabilized over three consecutive readings. The low flow sampling logs and sample chain-of-custody form are provided as **Attachment A.** The groundwater samples were analyzed by Accutest Laboratories for volatile organic compounds (VOCs) by EPA Method 8260b. The CSIA was performed by the University of Oklahoma, and included carbon, hydrogen, and chlorine compound specific isotope ratios of PCE, TCE and cis-1,2-dichloroethene (DCE). An interpretive report of the findings prepared by Accutest Laboratories is provided as **Attachment B.**

Summary of Findings

The Accutest Laboratory interpretive report states that samples DEC-005 and DEC-026 are primarily impacted with TCE from what appears to be the same source. TCE was a minor constituent in onsite wells MW-1, MW-2 and MW-3, and does not appear to be derived from the same source as the TCE identified in offsite wells DEC-005 and DEC-026. Although the TCE in groundwater beneath 513 Porter Avenue is interpreted as being from a separate source as the TCE identified in wells DEC-005 and DEC-026, the lack of TCE detected in soil samples collected from 513 Porter Avenue does not support the conclusion that 513 Porter Avenue was a source of the TCE to groundwater.

The interpretive report states that the PCE detected in hydraulically upgradient offsite well DEC-026 is "isotopically identical" to the PCE detected in the down gradient onsite well MW-1, and that the PCE in offsite well DEC-005 is "isotopically similar" to the PCE detected in onsite well MW-2. The results indicate a potential comingling of at least two possibly three PCE sources in all five wells. These data suggest that the property at 513 Porter is not likely the primary source of PCE impacts to groundwater. The lack of PCE detected in deeper onsite soils at 513 Porter further supports the conclusion that 513 Porter Avenue was not a significant contributor of PCE to groundwater.

Please feel free to contact the undersigned with any questions or comments.

Sincerely,

Richard R. Hart, CHMM
Sr. Environmental Scientist
EPM, Inc.

ATTACHMENTS

Attachment A: Field Sampling Logs
Attachment B: Accutest Laboratory Interpretive Report

Accutest Labs of New England, Inc.						Aug 27, 2014 14:47 pm
Job Number:	MC30989					
Account:	Environmental Planning and Management					
Project:	513 Porter Avenue, Brooklyn, NY					
Project Number:	26052					
					Legend:	Hit

Client Sample ID:		DEC-005	DEC-026	MW-1	MW-2	MW-3
Lab Sample ID:		MC30989-2	MC30989-1	MC30989-3	MC30989-4	MC30989-5
Date Sampled:		05/29/2014	05/29/2014	05/29/2014	05/30/2014	05/30/2014
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
GC/MS Volatiles (SW846 8260C)						
Acetone	ug/l	ND (10)	ND (100)	ND (10)	ND (10)	ND (10)
Benzene	ug/l	ND (0.50)	ND (5.0)	ND (0.50)	60.2	ND (0.50)
Bromodichloromethane	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Bromoform	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Bromomethane	ug/l	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	ND (2.0)
2-Butanone (MEK)	ug/l	ND (5.0)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)
Carbon disulfide	ug/l	ND (5.0)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)
Carbon tetrachloride	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Chlorobenzene	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Chloroethane	ug/l	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	ND (2.0)
Chloroform	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Chloromethane	ug/l	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	ND (2.0)
Dibromochloromethane	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichloroethane	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,2-Dichloroethene	ug/l	5.8	90.9	ND (1.0)	1.9	ND (1.0)
trans-1,2-Dichloroethene	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichloropropane	ug/l	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	ND (2.0)
cis-1,3-Dichloropropene	ug/l	ND (0.50)	ND (5.0)	ND (0.50)	ND (0.50)	ND (0.50)
trans-1,3-Dichloropropene	ug/l	ND (0.50)	ND (5.0)	ND (0.50)	ND (0.50)	ND (0.50)
Ethylbenzene	ug/l	ND (1.0)	ND (10)	ND (1.0)	32.5	ND (1.0)
2-Hexanone	ug/l	ND (5.0)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)
4-Methyl-2-pentanone (MIBK)	ug/l	ND (5.0)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)
Methylene chloride	ug/l	ND (2.0)	ND (20)	ND (2.0)	ND (2.0)	ND (2.0)
Styrene	ug/l	ND (5.0)	ND (50)	ND (5.0)	ND (5.0)	ND (5.0)
1,1,2,2-Tetrachloroethane	ug/l	ND (0.50)	ND (5.0)	ND (0.50)	ND (0.50)	ND (0.50)
Tetrachloroethene	ug/l	20.4	29.8	24.1	119	16.3
Toluene	ug/l	ND (1.0)	ND (10)	ND (1.0)	10.8	ND (1.0)
1,1,1-Trichloroethane	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2-Trichloroethane	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ug/l	235	3880	1.0	22.2	1.2
Vinyl chloride	ug/l	ND (1.0)	ND (10)	ND (1.0)	ND (1.0)	ND (1.0)
Xylene (total)	ug/l	ND (1.0)	ND (10)	ND (1.0)	181	ND (1.0)

APPENDIX D – EXCAVATION WORK PLAN

APPENDIX D – EXCAVATION WORK PLAN (EWP)

D-1 Notification

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination, the site owner/operator or their representative will notify the NYSDEC. Table 1 of the SMP includes contact information for the above notification. The information on this table will be updated as necessary to provide accurate contact information. A full listing of site-related contact information is provided in Table 1 of the SMP.

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent of excavation, plans/drawings for site re-grading, intrusive elements or utilities to be installed below the cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated to be encountered in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;
- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the contractor's health and safety plan (HASP), in electronic format,;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

D-2 Soil Screening Methods

Visual, olfactory and instrument-based (e.g. photoionization detector) soil screening will be performed by a qualified environmental professional or Professional Engineer licensed to practice in New York State during all excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed when invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Excavated soils will be segregated based on previous environmental data and screening results into material that requires off-site disposal and material that requires testing to determine if the material can be reused on-site as soil beneath a cover or if the material can be used as cover soil. Further discussion of off-site disposal of materials and on-site reuse of materials is provided in Sections D-6 and D-7, respectively, of this Appendix.

D-3 Soil Staging Methods

Materials will be staged and stockpiled on-site at locations approved by the Owner/Operator. Differing materials shall be stockpiled separately to prevent mixing. Stormwater runoff shall be directed away from stockpile sites to prevent erosion or deterioration of materials.

Excavated contaminated stockpiled materials shall be placed on a base lined with a minimum of 30 mil. (or higher) polyethylene plastic sheeting. Stockpiles shall not exceed 35 feet in height with maximum side slopes of 2:1 (horizontal:vertical).

Soil stockpiles will be continuously encircled with a berm and/or silt fence. The underlying polyethylene plastic sheeting shall be extended over the bermed edges to prevent stormwater run-on or runoff of stormwater or dewatered groundwater from stockpiled soils/fill material. The berm height shall be a minimum of 12 inches. Hay bales and other best management practices will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps consisting of a minimum of 10-mil thick polyethylene plastic sheeting. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by the NYSDEC.

D-4 Materials Excavation and Load-Out

A qualified environmental professional or Professional Engineer licensed to practice in New York State or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The owner of the property and its contractors are responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional or Professional Engineer licensed to practice in New York State. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

If site construction activities are such that truck or construction equipment bodies or tires leaving the site have contacted contaminated soil/fill materials or are tracking clean soil cover materials off site, a truck wash will be operated on-site by the associated contractor at a location approved by the owner. The qualified environmental professional or Professional Engineer licensed to practice in New York State will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the site until the activities performed under this section are complete. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

The qualified environmental professional or Professional Engineer licensed to practice in New York State will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials. Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

D-5 Materials Transport Off-Site

All transport of regulated materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded. All proposed waste transporters must be preapproved by the owner for use on this project. Information on the proposed waste transporter to be submitted to the owner at least 14 days prior to any off-site transport of regulated waste materials will include: name, address; telephone number; contact person, EPA and NYS Transporter ID number and permits; and any and all necessary permit authorizations for waste to be transported from the site to treatment/storage/disposal facilities.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

Truck transport routes are as follows: trucks transporting contaminated or otherwise regulated soil or waste from the Site shall depart the site and proceed to Vandervoort Avenue to the west and continue north onto the appropriate connecting roadway and ramp to the Brooklyn Queens Expressway (Interstate 278) leading to the east bound BQE (Cherry Street) or west bound BQE (Meeker Avenue). Unless otherwise approved by the owner, the truck route must adhere to the NYCDOT Truck Route Map available at the NYCDOT web site address at http://www.nyc.gov/html/dot/html/motorist/trucks.shtml#routes. All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city

mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

The off-site transport of all regulated wastes will be fully documented in accordance with applicable federal, state and local regulations/requirements. Approved shipping records consisting of hazardous waste manifests, non-hazardous waste manifests, or bill of lading forms will be required for each vehicle removing waste materials from the project site. Hazardous waste manifests will be provided for all off-site shipments of hazardous wastes. A non-hazardous waste manifest, bill of lading or other owner-approved shipping document will be provided for all off-site shipments of non-hazardous regulated waste materials. Certified scale tickets will also be provided for each waste load transported off-site.

Waste transporters must provide proof of adequate current insurance coverage by providing a current certificate of insurance at the limits required by the owner.

D-6 Materials Disposal Off-Site

All soil/fill material excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of material from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without formal NYSDEC approval.

Disposal facility information including the method(s) of treatment/disposal that will be used and information on the proposed permitted treatment/disposal facilities to be submitted to the owner for preapproval at least 14 days prior to any offsite transport of regulated waste materials will include: facility name; address; contact person; completed site-specific waste profiles; facility acceptance letter; and current facility permits. Waste disposal facilities must also provide proof of adequate current insurance coverage by certificate of insurance at the limits required by the owner.

Off-site disposal locations for excavated soils/fill material will be identified in the pre-excavation notification. This will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

Copies of all completed and executed waste profiles, manifests, bills-of-lading, certified scale weight tickets, and records of final waste shipment and disposition (e.g., certificate of disposal) from the pre-approved permitted disposal facility and all other documentation relating to the off-site transportation and disposal of waste will be provided to the owner and will be included in the PRR.

D-7 Materials Reuse On-Site

This section provides all details for methods to be followed for materials reuse on-site. ‘Reuse on-site’ means reuse of material on-site that originates at the site and that does not leave the site during the excavation. Material reuse on-site will comply with the requirements of NYSDEC DER-10 Section 5.4(e)4. Excavated materials will be reused to the maximum extent practicable in on-site backfilling at the appropriate locations and depths in accordance with the requirements specified herein and in the SMP.

A demarcation layer consisting of orange-colored safety fence material is buried across the site as a demarcation between underlying potentially contaminated historic soils and overlying clean soils, gravel and other clean cover materials associated with the park construction. Materials excavated from above the demarcation layer may be reused at the same location or elsewhere on site below or above the demarcation layer as long as the material meets all other applicable reuse conditions indicated herein and in the SMP and required at the location (e.g., structural soil, topsoil, sandy loam). Materials recovered from below the clean cover materials and underlying demarcation layer may only be reused below the demarcation layer on the site or properly disposed off site. However, no grossly contaminated materials (e.g., staining, odors) may be reused on site or off site and must be disposed at a permitted off-site regulated waste disposal facility (i.e., not a NYSDEC-registered construction demolition debris processing facility).

The qualified environmental professional or Professional Engineer licensed to practice in New York State will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for reuse on-site will be placed below the demarcation layer, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

D-8 Fluids Management

All liquids to be removed from the site, including but not limited to, excavation dewatering, and decontamination waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering fluids will not be recharged back to the land surface or subsurface of the site, and will be managed off-site, unless prior approval is obtained from NYSDEC.

Given the significant depth to groundwater at the Site (45-60 ftbg.), on site dewatering is not anticipated during any future park construction activities. However, any liquids generated as a result of dewatering efforts, including stormwater management within the excavation, will be collected. Water shall be collected directly in a vacuum truck tanker (for excavation dewatering) or temporarily stored in an on-site portable frac tank and/or other suitable portable containers. The collected water will be tested to characterize the water for proper off-site disposal/treatment at a permitted facility. At a minimum, liquid disposal characterization will include testing for RCRA heavy metals, TCL VOCs, and TCL SVOCs and any other potential contaminants of concern or parameters required by the treatment/disposal facility.

If collected water is determined to be uncontaminated or can be treated to acceptable levels, it may be discharged to a permitted sanitary/combined City sewer discharge in accordance with a project-specific NYCDEP sewer connection permit/approval obtained by the contractor and associated permit/approval testing requirements. All such project-specific permits shall be obtained by the party performing the associated activity. Copies of all issued water discharge permits/approvals must be obtained by the contractor and provided to the owner in advance of any discharge. If a NYCDEP sewer discharge permit is not obtained by the contractor for a water discharge, the water will be collected and transported off-site for treatment/disposal at a permitted off-site facility in accordance with applicable federal, state and local regulations.

Off-site water treatment/disposal facility information including the method(s) of treatment/disposal that will be used and information on the proposed permitted treatment/disposal facilities shall be submitted to the owner for preapproval at least 14 days prior to any offsite transport of regulated waste materials and will include: facility name; address; contact person; completed site-specific waste profiles; facility acceptance letter; and facility permits. Waste treatment/disposal facilities must also provide proof of adequate current insurance coverage by certificate of insurance at the limits required by the owner.

Copies of all completed and executed water transport and disposal waste profiles, manifests, gate receipts, bills-of-lading, and records of final waste shipment and disposition (e.g., certificate of disposal) from the pre-approved permitted disposal facility and all other documentation relating to the off-site transportation and disposal of wastewater will be provided to the owner.

D-9 Cover System Restoration

After the completion of soil removal and any other invasive activities, the cover system will be restored in a manner that complies with the IRM Work Plan and SMP. The existing cover system is comprised of a minimum of asphalt pavement, concrete pavement, and concrete paver covered surfaces or a minimum of two feet of environmentally clean fill. The underlying demarcation layer consisting of orange-colored plastic snow fencing material will be replaced with equivalent approved owner material to provide a visual reference to the top of the remaining contamination zone, the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the remaining contamination. Any such modifications will be consistent with other equivalent cover systems already approved and present on the site unless otherwise approved by NYSDEC. If a new cover type if proposed for the site, a figure showing the type (detailed cross section) and location of the proposed modified cover will be provided by the contractor to the owner for submittal and preapproval by NYSDEC. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in an updated SMP.

D-10 Backfill from Off-Site Sources

The owner reserves the right to accept or reject any fill material proposed for use as borrow at the site or brought to the site. The basis of rejection could include, but not be limited to, soils which do not meet the physical or chemical requirements for fill, backfill or soil cover materials.

Materials which may be considered as borrow for this site and require pre approval by the owner include, but are not limited to, the following:

- non-contaminated soil which has been excavated as part of a construction project (per 6 NYCRR Part 360-1.15(b)(7)); and/or
- other non-contaminated soil which has received a beneficial use determination from NYSDEC and for which use at this site is acceptable to NYSDEC (as per 6 NYCRR Part 360-1.15).

The following materials will <u>not</u> be considered as potential borrow for this site:

- construction and demolition debris wastes consisting of asphalt, concrete, glass, wood, brick, metal or other waste materials, unless such material meets the beneficial use criteria defined at 6 NYCRR Part 360-1.15;
- petroleum-contaminated soils not remediated to the satisfaction of the NYSDEC;
- grossly contaminated soils with petroleum or other chemical signs of contamination (e.g., odors, staining);
- soils contaminated with chemical or industrial wastes or materials, sewage treatment wastes, or solid wastes;
- ash from any combustion process;
- asbestos or asbestos-containing materials;
- wood, wood chips, bark, stumps, logs and land-clearing debris; and
- other solid or hazardous wastes not exempted by federal, state or local regulations.

Information on proposed sources of borrow material, including documentation of NYSDEC's beneficial use determination, if applicable, shall be provided to the owner a minimum of four weeks prior to planned delivery of the material to the site. All borrow sources and materials must be pre-approved by the owner and NYSDEC prior to delivery to the site.

Representative samples of each material proposed for use as borrow shall be submitted by the contractor to the owner at least fifteen (15) working days prior to the proposed delivery of the materials to the site. The contractor shall arrange for the owner's representative to gain access to the proposed borrow source for inspection prior to its use. The owner's representative shall also be provided the option to collect soil samples for testing directly from designated borrow material stockpiles at the proposed source location. Borrow material shall not be delivered to the project site until approved by the owner and NYSDEC.

Chemical testing will be conducted of all proposed off-site borrow soil materials. The soil testing frequency will be at a minimum frequency of 1 sample per soil source and no less than one sample per

500 cubic yards for the full target compound list/target analyte list (TCL/TAL) including the 6 NYCRR Part 375-6.8 contaminant listing by a NYSDOH ELAP certified laboratory. The chemical testing will be conducted on samples representative of the proposed borrow soils and the soil samples will be collected within approximately 2 weeks prior to the planned soil delivery to the site (i.e., representative current soil data) from the actual proposed soil stockpiles that may need to be quarantined at the proposed source for this project depending upon the source.

All materials proposed for import onto the site will be approved by the qualified environmental professional or Professional Engineer licensed to practice in New York State and will be in compliance with provisions in this SMP prior to receipt at the site. A Request to Import/Reuse Fill or Soil form, which can be found at http://www.dec.ny.gov/regulations/67386.html, will be prepared and submitted to the NYSDEC project manager allowing a minimum of 5 business days for review.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are listed in Table 3. Soils that meet 'general' fill requirements under 6 NYCRR Part 360.13, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases and stormwater contact. Stockpiled borrow materials shall be stockpiled in accordance with the stockpiling requirements in section D-3 in this plan.

D-11 Stormwater Pollution Prevention

Smaller-scale soil disturbances for future utility maintenance and landscaping conducted in the completed park are not anticipated to require coverage under the general SPDES Permit or preparation of a Storm Water Pollution Prevention Plan (SWPPP). However, best management practices, such as the placement silt fencing and hay bales at the perimeter of soil stockpiles and/or the use of polyethylene liners and covers, will be implemented during small-scale soil disturbance.

All excavation and other intrusive activities shall be planned and conducted in a manner which minimizes stormwater pollution. Soil disturbing activities will be performed only after proper erosion and sediment controls are in place. The type and amount of controls is generally dependent upon the scope of excavation or ground intrusive activities. Generally, small excavations required for minor landscaping (e.g., shrub, tree planting) may not require controls if completed in a timely manner and not conducted directly adjacent to sensitive receptors (e.g., storm drain, waterways).

In accordance with the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity, permit coverage is required for construction activities "involving soil disturbances of one (1) or more acres" but "excluding routine maintenance activity that is performed to maintain the original line and grade, hydraulic capacity or original purpose of the facility." In addition to complying with other general permit requirements, a Stormwater Pollution Prevention Plan (SWPPP) that describes the erosion and sediment control practices to reduce stormwater pollutant discharges and assure compliance with the general permit must be prepared prior to filing of the completed Notice of Intent (NOI) form for the general permit to the NYSDEC. However, as noted above, it is not anticipated that exceedance of the one (1) acre disturbed area will occur on the project site during future park maintenance or renovation activities.

Generally, silt fencing and/or hay bales will be installed around the disturbed soil area, around nearby stormwater catch basin inlets, and at the locations indicated by the SWPPP. All stormwater pollution controls and measures shall meet the most current versions of the New York Standards and Specifications for Erosion and Sediment Control and New York State Stormwater Management Design Manual.

Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for

inspection by the NYSDEC. All necessary repairs shall be made immediately. Accumulated sediments will be removed as required to keep the barrier and hay bale check functional. All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials. Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

If applicable, requirements of the current NYSDEC General Permit for Stormwater Discharges from Construction Activity and associated SWPPP requirements shall be met until the completion of all site construction activities, all areas of disturbance have achieved final stabilization, all temporary structural erosion and sediment control measures have been removed, and all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational.

Erosion and sediment control measures identified in the SMP and SWPPP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.

D-12 Excavation Contingency Plan

If underground tanks or other previously unidentified contaminant sources are found during post-remedial subsurface excavations or development related construction, excavation activities will be suspended until sufficient equipment is mobilized to address the condition.

Appropriately trained environmental remediation/spill response personnel will conduct the removal of any discovered contaminant sources (e.g., tanks, drums) or materials. At a minimum, personnel directly involved in the cleanup activities must have all applicable OSHA hazardous waste operations and emergency response (HAZWOPER) training (29 CFR 1910.120) and proof of such training shall be provided to the owner prior to any work on the site. Liquids must be removed/pumped from tanks or other containers prior to removal from the ground to minimize potential spills from deteriorated or damaged containers. Licensed waste transporters and permitted treatment/ disposal facilities must be used for the off-site disposal of all regulated wastes. Documentation for any such removal activities including daily reports, waste manifests, bill of lading for recycling of steel tank, and detailed scaled site maps showing the locations of such materials shall be provided to the Owner for inclusion in the Periodic Review Report for that period.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for a full list of analytes (TAL metals; TCL volatiles and semi-volatiles, TCL pesticides and PCBs), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

Identification of unknown or unexpected contaminated media identified by screening during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. These findings will be also included in the Periodic Review Report. Reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline (1-800-457-7362) within 2 hours of discovery, except spills that meet all of the following criteria.

1. The quantity is known to be less than 5 gallons; and
2. The spill is contained and under the control of the spiller; and
3. The spill has not and will not reach the State's water or any land; and
4. The spill is cleaned up within 2 hours of discovery.

A spill is considered to have not impacted land if it occurs on a paved surface such as asphalt or concrete. A spill in a dirt or gravel parking lot is considered to have impacted land and is reportable.

D-13 Community Air Monitoring Plan

Any ground intrusive or other site activities that expose or may otherwise result in potential contact with contaminated site soils, fill materials, or groundwater must be conducted in accordance with this plan and the procedures defined in a contractor-supplied, site-specific Health and Safety Plan (HASP) and the Community Air Monitoring Plan (CAMP) provided in Appendix F. The CAMP was prepared in compliance with the NYSDOH guidance in Appendix 1A of DER-10, Generic Community Air Monitoring Plan, which is

attached to the CAMP. Based on any applicable changes to State and federal health and safety requirements and specific work activities and methods employed by site workers, the CAMP will be updated by the party conducting the intrusive work activities and shall be prepared in current compliance with NYSDEC DER-10, 29 CFR 1910, 29 CFR 1926, and all other applicable Federal, State and local regulations.

Generally, the prevailing winds are from the west and north such that upwind sampling would be performed along the northern or Cherry Street end of the site and downwind performed along the southern (i.e., Anthony Street) and/or western (Porter Avenue) ends of the site. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to provide an upwind and at least one to two downwind monitoring stations depending on the scope/extent of the contaminated soil disturbance work and as required by the owner or NYSDEC.

CAMP data will be reported to the NYSDEC and NYSDOH project managers on a weekly basis. Exceedances of action levels and corrective measures taken will be reported to the Departments immediately (within 24 hours).

D-14 Odor Control Plan

This odor control plan is capable of controlling emissions of nuisance odors off-site and on-site. Specific odor control methods to be used on a routine basis will include limiting the size of excavation areas open at one time and secured plastic sheeting or tarps covers for stockpiled or otherwise exposed contaminated soil/fill materials. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the contractor or other responsible party as directed by the owner/operator, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

D-15 Dust Control Plan

The project CAMP includes provisions for dust or particulate monitoring during ground intrusive activities. Based on the dust monitoring results or the observed presence of visible dust, dust suppression may be required as specified by the CAMP.

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

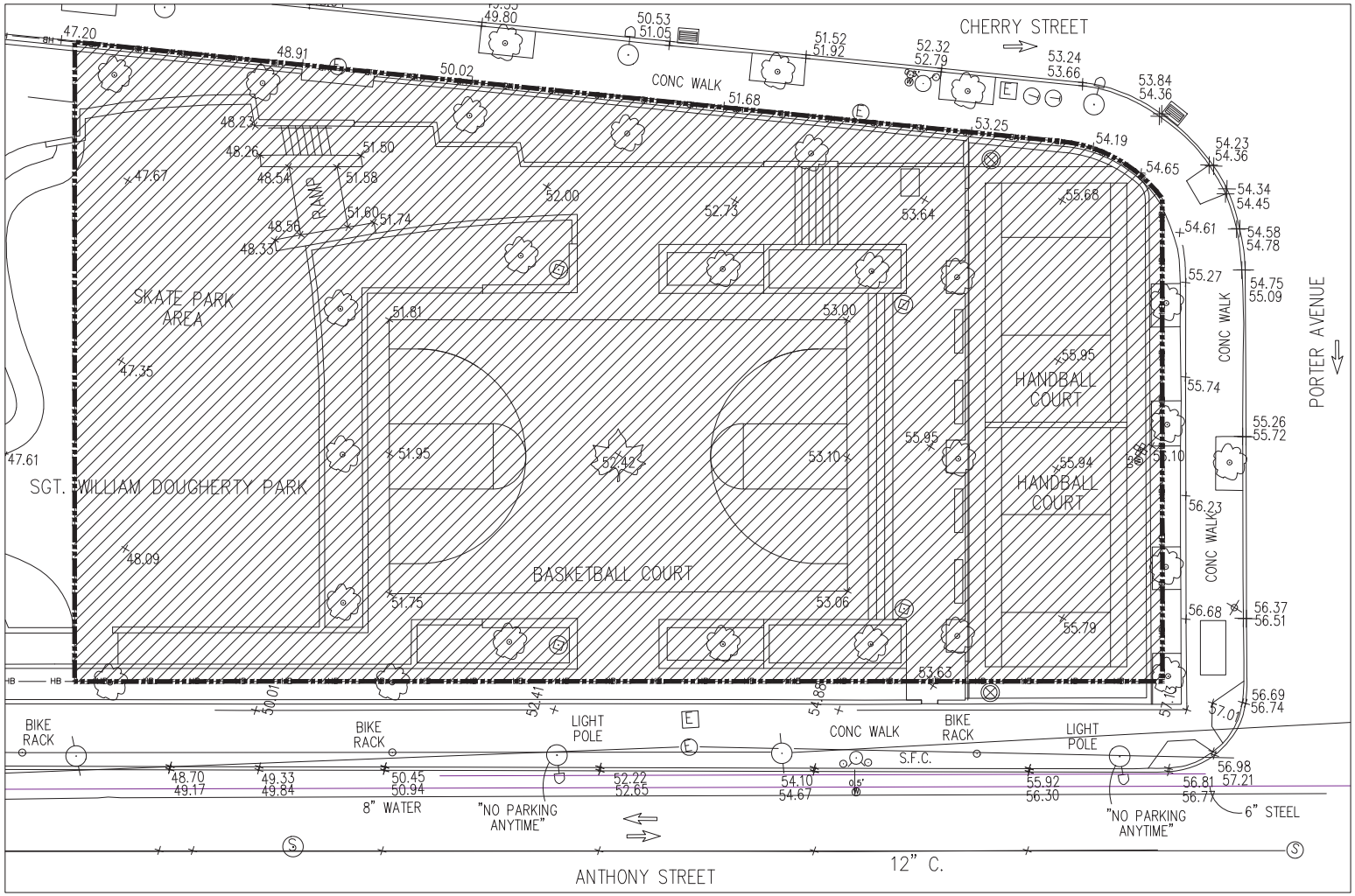
- Dust suppression will be achieved through the use of a dedicated on-site water supply tank and/or garden hose for the water misting of the exposed soil area and any exposed working soil stockpiles.
- On-site exposed soil areas will be limited in total area to minimize the area required for water misting.
- Windscreens may be used on temporary fencing or existing perimeter fencing as a temporary dust control measure.

D-16 Other Nuisances

A plan for rodent control will be developed and utilized by the contractor prior to and during any site clearing and grubbing, and during all remedial work.

Contractors engaged in construction work on the site must control noise to appropriate levels and, if applicable, develop a Noise Mitigation Plan in accordance with New York City Noise Code (15 RCNY Chapter 28) prior to the start of work. The plan will be developed and utilized by the contractor for all applicable construction activities and any remedial work to ensure compliance with the local noise control code.

APPENDIX E - AS-BUILT DRAWINGS



LEGEND (SYMBOLS NOT TO SCALE):

- HYDRANT
- UTILITY POLE WITH LIGHT
- UTILITY POLE
- STREET SIGN
- TREE PIT AND TREE SIZE
- ELECTRIC MANHOLE COVER
- SEWER MANHOLE COVER
- 0.5' GAS VALVE
- 0.5' WATER VALVE
- WATER MANHOLE COVER
- CATCH BASIN
- BIKE RACK
- LAMP POLE
- ELECTRIC HANDHOLE
- WATER FOUNTAIN
- 6" CLEANOUT
- GAS METER
- 47.35 SPOT ELEVATION
- HB — HB CITY BOUNDARY LINES
- PARCEL DIVISION LINE
- FORMER ACME STEEL SITE WITHIN PARK AREA LIMITS (ADDED BY TRC)
- FORMER ACME STEEL SITE WITHIN PARK AREA

NOTES (FROM SURVEY MAP):

1. HORIZONTAL COORDINATES ARE REPORTED ON NEW YORK STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE NAD 83/CORS96 DATUM IN U.S. SURVEY FEET.
2. ELEVATIONS ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. PLANIMETRIC PARK FEATURES SHOWN APPROX. 25' BEYOND THE VICINITY OF THE COMFORT STATION SHOWN FROM SUPPLIED MAPPING ENTITLED "X73143_VZ_3DFEA.DWG".
4. SURVEY IS BASED ON EXISTING PHYSICAL CONDITIONS FOUND AT THE SITE ON NOVEMBER 30, 2018, DECEMBER 12 & DECEMBER 13, 2018.
5. THIS SURVEY IS NOT INTENDED AS A TITLE SURVEY.
6. BLOCK & LOT NUMBERS, RIGHT OF WAY (R.O.W.) WIDTHS, AND STREET NAMES AS PER CURRENT TAX MAP INFORMATION.
7. UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAIL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
8. WETLAND, ENVIRONMENTAL, AND/OR HAZARDOUS MATERIALS LOCATION, IF ANY, ARE NOT PART OF THIS CONTRACT.
9. PARK FEATURES SHOWN FOR REFERENCE ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION OF ANY TYPE.
10. LOT 14 IS TO BE QUITCLAIMED BY MAP128-C PARCEL180 FROM NYSDOT TO THE CITY OF NEW YORK DEPARTMENT OF PARKS AND RECREATION.

STATE OF NEW YORK · JAMES PERONTO · 083961 · LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
DECEMBER 10, 2021

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING THE FINAL SITE SURVEY DRAWING TITLED "FINAL AS-BUILT COMFORT STATION SGT. DOUGHERTY PARK KINGS COUNTY STATE OF NEW YORK" DATED DECEMBER 18, 2018 AND THE ENVIRONMENTAL NOTICE SURVEY DRAWING TITLED "NYSDEC SITE: 224192 513 PORTER AVENUE BLOCK 2811 LOT 14" DATED MARCH 21, 2019 PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C. UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

PROJECT NORTH

0 20' 40'
SCALE: 1" = 20'
SHEET SIZE: 11" BY 17"

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

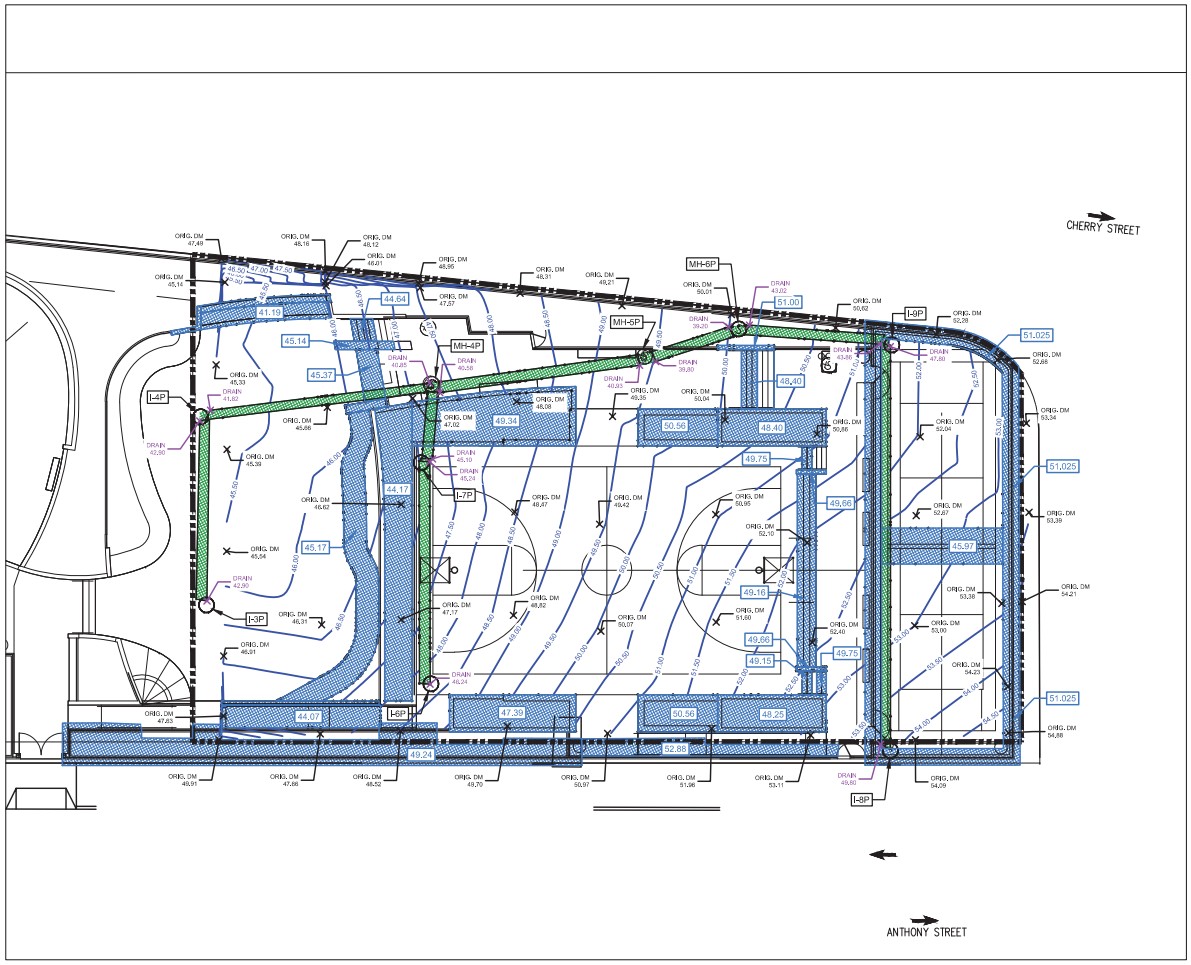
PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

TITLE:
AS-BUILT SITE SURVEY PLAN

DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	DECEMBER 2021
PROJ. NO.:	252356.0004.0000
FILE:	Fig.3 - As-Built Site Survey Plan.dwg

FIGURE 3

DRAWING NAME: \\windsor-fs2\Cad-Graphics\CADN\SDO\Project Sites\252356-0000\01-figures (2021)\TRC Working Drawings\ Fig.3 - As-Built Site Survey Plan.dwg — PLOT DATE: December 10, 2021 - 10:56AM — LAYOUT: 11x17L
Version: 2017-10-21



0 30' 60'

SCALE: 1" = 30'
SHEET SIZE: 11" BY 17"

LEGEND (SYMBOLS NOT TO SCALE):

- FORMER ACME STEEL SITE WITHIN PARK AREA LIMITS
- 53.00 — DEMARCATION LAYER SURFACE ELEVATION CONTOUR (0.50 FOOT INTERVALS)
- ORIG. DM 52.68 — ORIGINAL DEMARCATION LAYER SURFACE SPOT ELEVATION
- DRAIN 43.86 — EXCAVATION SPOT ELEVATION FOR STORM DRAINAGE SYSTEM THAT WENT BELOW DEMARCATION LAYER
- 52.33 — DEMARCATION LAYER ELEVATION FOR EXCAVATION THAT WENT BELOW ORIGINAL DEMARCATION LAYER
- FOUNDATION AREAS WHERE DEMARCATION LAYER WAS REPLACED
- STORM DRAINAGE SYSTEM AREAS WHERE DEMARCATION LAYER WAS REPLACED
- MH-## — STORM MANHOLE
- I-## — STORM DRAIN

NOTES:

1. HORIZONTAL COORDINATES ARE REPORTED ON NEW YORK STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE NAD 83/CORS96 DATUM IN U.S. SURVEY FEET.
2. ELEVATIONS ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

REFERENCES:

1. EXCAVATION SURVEY DATA PROVIDED BY NYSDOT CAD FILE NAMED "ST.DOUGHERTYPARK_EXCAVATION.DGN".
2. AS-BUILT MATERIALS PLAN BASEMAP PROVIDED BY NYSDOT CAD FILE NAMED "D263241_X73143_CPH_MP_02_R2.DGN".
3. ORIGINAL DEMARCATION LAYER SPOT ELEVATIONS USED TO GENERATE DEMARCATION LAYER TOPGOGRAPHY PROVIDED BY SKANSKA IN CAD FILE NAMED "SGT DOUGHERTY SUB-BASE TOPO.DWG".

STATE OF NEW YORK
JAMES PERONTO
083961
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
DECEMBER 10, 2021

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING DEMARCATION LAYER ELEVATION DATA IN SKANSKA CAD FILE "SGT DOUGHERTY SUB-BASE TOPO.DWG", NYSDOT CAD DRAWING FILE "ST.DOUGHERTYPARK_EXCAVATION", NYSDOT CAD DRAWING FILE "D263241_X73143_CPH_MP_02_R2, THE ENVIRONMENTAL NOTICE SURVEY DRAWING TITLED "NYSDEC SITE: 224192 513 PORTER AVENUE BLOCK 2811 LOT 14" DATED MARCH 21, 2019 PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., AND OTHER DRAWING REFERENCES.
UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

PROJECT NORTH

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

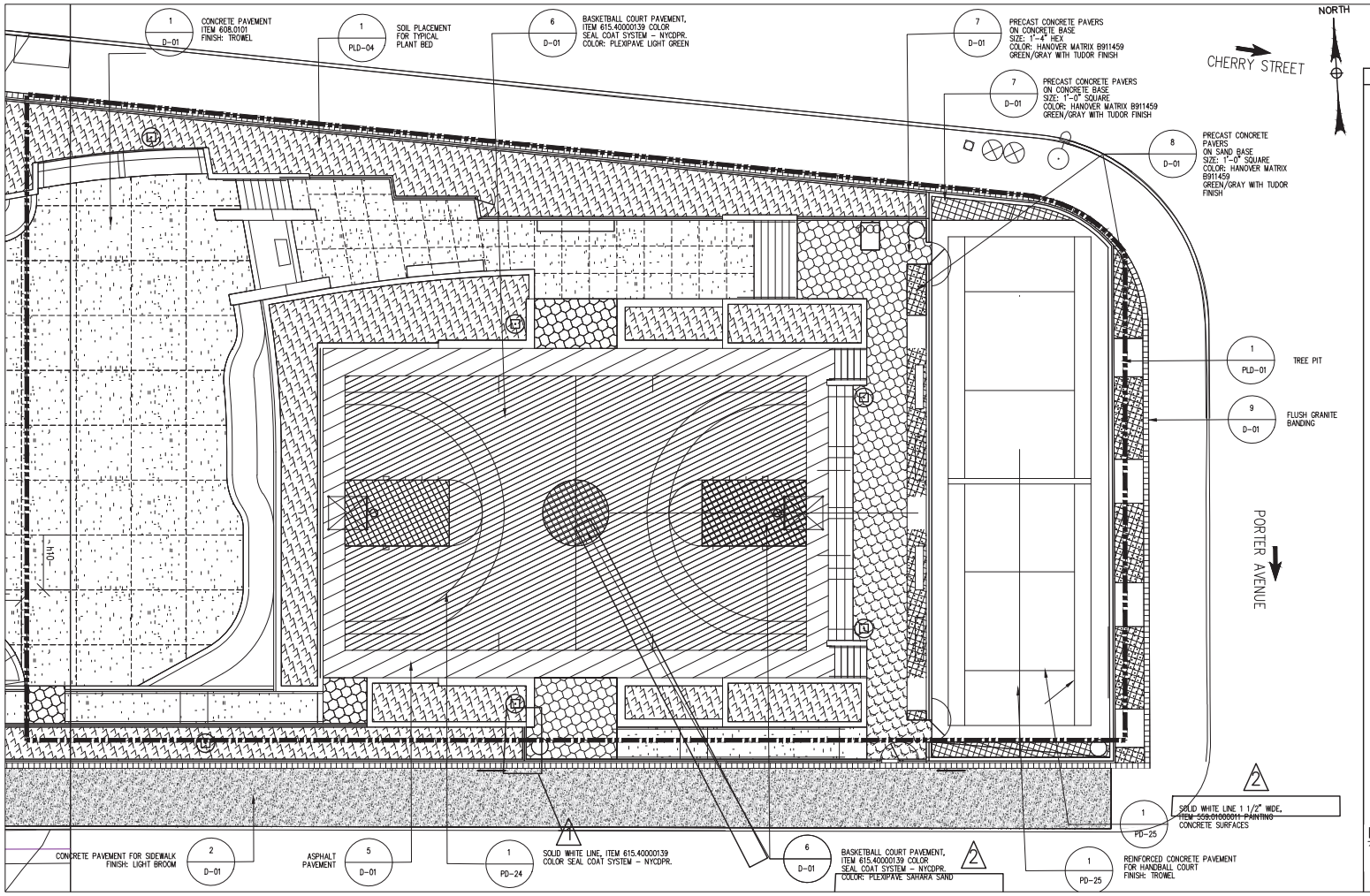
PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

TITLE:
AS-BUILT DEMARCATION LAYER LOCATION PLAN

DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	DECEMBER 2021
PROJ. NO.:	252356.0004.0000
FILE:	Fig.6 - As-Built Demarc. Layer Loc. Plan.dwg

FIGURE 6

Version: 2017-10-21



SYMBOL	DESCRIPTION
	JOINT KEY POINTS
	1/8" EXPANSION JOINT
	1/8 SAWCUT JOINT
	CONCRETE PAVEMENT ITEM 608.0101 FINISH: SKATEPARK – TROWEL FINISH: WALKWAYS – LIGHT BROOM
	REINFORCED CONCRETE PAVEMENT FOR HANDBALL COURT FINISH: TROWEL
	CONCRETE PAVEMENT FOR SIDEWALK FINISH: LIGHT BROOM
	PRECAST CONCRETE PAVERS ON CONCRETE BASE SIZE: 1'-4" HEX COLOR: HANOVER MATRIX B911459 GREEN/GRAY WITH TUDOR FINISH
	PRECAST CONCRETE PAVERS ON CONCRETE BASE SIZE: 1'-0" SQUARE COLOR: HANOVER MATRIX B911459 GREEN/GRAY WITH TUDOR FINISH
	PRECAST CONCRETE PAVERS ON SAND BASE SIZE: 1'-0" SQUARE COLOR: HANOVER MATRIX B911459 GREEN/GRAY WITH TUDOR FINISH
	ASPHALT PAVEMENT
	BASKETBALL COURT PAVEMENT, ITEM 615.40000139 COLOR SEAL COAT SYSTEM – NYCDPR. COLOR: PLEXIPAVE LIGHT GREEN
	BASKETBALL COURT PAVEMENT, ITEM 615.40000139 COLOR SEAL COAT SYSTEM – NYCDPR. COLOR: PLEXIPAVE SAHARA SAND
	SOIL PLACEMENT FOR TYPICAL PLANT BED

NOTE:
1. CROSS SECTION DETAILS FOR ABOVE COVER TYPES PROVIDED ON FIGURES 8a, 8b, AND 8c.

LEGEND (SYMBOLS NOT TO SCALE):

FORMER ACME STEEL SITE WITHIN PARK AREA LIMITS (ADDED BY TRC)

AS-BUILT REVISIONS

PROJECT NORTH

0 20' 40'
SCALE: 1" = 20'
SHEET SIZE: 11" BY 17"

STATE OF NEW YORK · JAMES PERONTO · 083661 · LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
DECEMBER 10, 2021

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING THE AS-BUILT FINAL SITE COVER PLAN TITLED "PAVEMENT PLAN 02" DRAWING NO. PVP-02 DATED 07/20/2018 AND PREPARED FOR THE NYSDOT WITH NY PE STAMP BY JIMMY W. LAU (#001216), AND INSPECTIONS BY THE CERTIFYING PE (TRC) AND OTHERS ACTING UNDER THE DIRECTION OF THE PE AS DOCUMENTED BY DAILY FIELD ACTIVITY REPORTS (TRC). UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

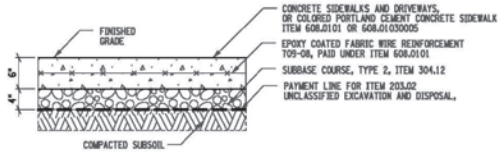
PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

TITLE:
AS-BUILT SITE COVER PLAN

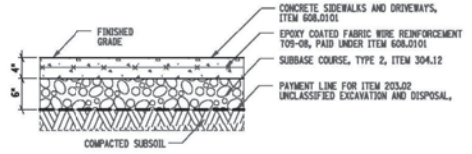
DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	DECEMBER 2021
PROJ. NO.:	252356.0004.0000
FILE:	Fig.8 - As-Built Site Cover Plan.dwg

FIGURE 8

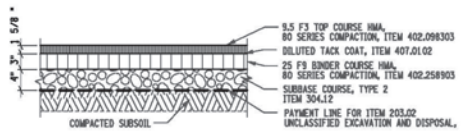
DRAWING NAME: J:\ACADNYSDOT\ACME Steel-252356-0000\Figures (2021)\TRC - Working Drawings\Fig.8 - As-Built Site Cover Plan.dwg — PLOT DATE: January 26, 2022 - 3:38PM — LAYOUT: 11x17L



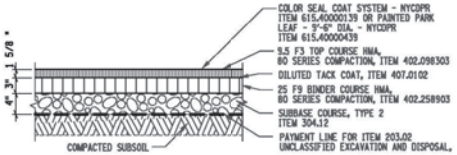
1 CONCRETE PAVEMENT



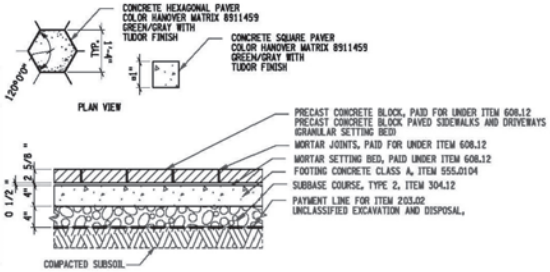
2 CONCRETE PAVEMENT FOR SIDEWALK



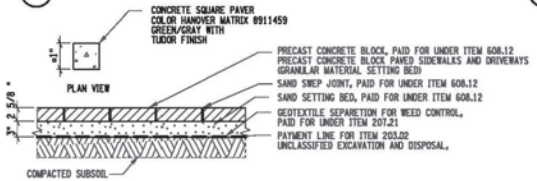
5 ASPHALT PAVEMENT



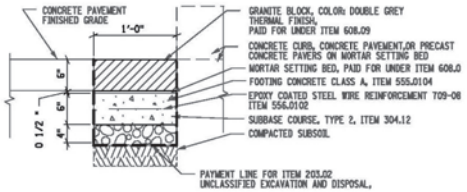
6 BASKETBALL COURT PAVEMENT



7 PRECAST CONCRETE PAVERS ON CONCRETE BASE

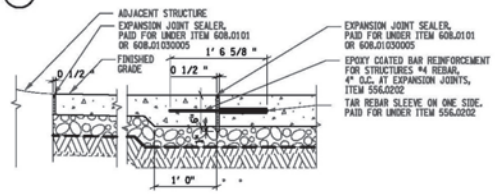


8 PRECAST CONCRETE PAVERS ON SAND BASE



9 FLUSH GRANITE BAND

NOTE: 1/2" MORTAR JOINTS PAID FOR UNDER ITEM 608.09



10 1/2" EXPANSION JOINT AT CONCRETE PAVEMENT

NOTE: The demarcation layer is not shown on the figure. The demarcation layer depth varies for each cover type and is located at a depth equal to at least the bottom of each cover subbase course layer specified in the cover cross section detail drawing. Figure 8 provides the as-built demarcation layer elevation information across the Site.

NOTE: SEE PAVEMENT PLANS FOR SIZE, SHAPE, FINISH AND COLOR

REFERENCES		DWG. NO.
1.	MATERIALS PLAN	MP-1,2
2.	LAYOUT PLAN	LP-1,2
3.	LAYOUT DATA TABLE	LDT
4.	GRADING PLAN	GP-1,2
5.	PAVEMENT PLAN	PVP-1,2

STATE OF NEW YORK
JAMES PERONTO
083961
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
JANUARY 17, 2022

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING THE AS-BUILT FINAL SITE COVER PLAN TITLED "DETAILS-PAVING" DRAWING NO. D-01 DATED 08/22/2016 AND PREPARED FOR THE NYSDOT WITH NY PE STAMP BY JIMMY W. LAU (#001216), AND INSPECTIONS BY THE CERTIFYING PE (TRC) AND OTHERS ACTING UNDER THE DIRECTION OF THE PE AS DOCUMENTED BY DAILY FIELD ACTIVITY REPORTS (TRC). UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

NOT TO SCALE
SHEET SIZE: 11" BY 17"

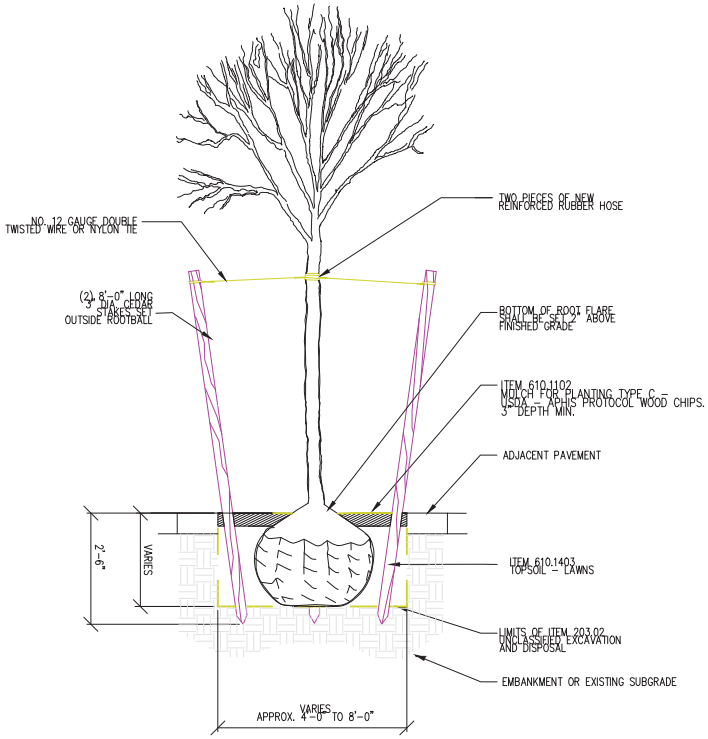
PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

TITLE:
AS-BUILT SITE COVER CROSS SECTION DETAILS PLAN

DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	DECEMBER 2021
PROJ. NO.:	252356.0004.0000
FILE:	Fig.8a - As-Built Site Cover X-Sct. Det. Plan.dwg

FIGURE 8a

DRAWING NAME: \\windfs02-f\ZCad Graphics\CADN\SC01\Cover Sheet-252356-0000\Figures (2021)\TRC-Working Drawings\Fig.8a - As-Built Site Cover X-Sct. Det. Plan.dwg -- PLOT DATE: January 17, 2022 - 3:31PM -- LAYOUT: 11x17L
Version: 2017-10-21

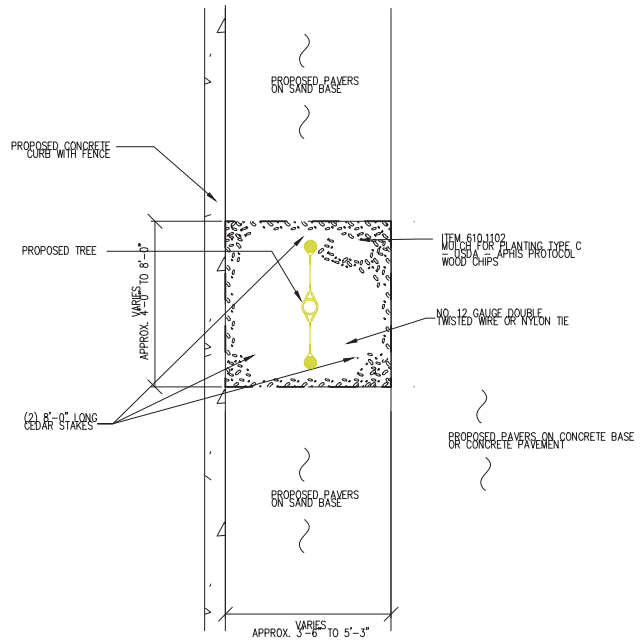


SECTION

1 TYPICAL TREE PIT

SCALE; NTS

NOTES:
1. REMOVE TOP TWO THIRDS OF WIRE BASKET AND WRAP
2. INSTALL OR CUT STAKES TO WITHIN 4" OF TOP OF GUYING WIRE OR TIE



PLAN

NOTE: The demarcation layer is not shown on the figure. The demarcation layer depth varies for each cover type and is located at a depth equal to at least the bottom of the topsoil layer indicated in the cover cross section detail drawing. Figure 8 provides the as-built demarcation layer elevation information across the Site.

STATE OF NEW YORK
JAMES PERONTO
083961
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
JANUARY 17, 2022

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING THE AS-BUILT FINAL SITE COVER PLAN TITLED "PLANTING AND PLANT CARE DETAILS - TREE PIT" DRAWING NO. PLD-01 DATED 08/22/2016 AND PREPARED FOR THE NYSDOT WITH NY PE STAMP BY JIMMY W. LAU (#001216), AND INSPECTIONS BY THE CERTIFYING PE (TRC) AND OTHERS ACTING UNDER THE DIRECTION OF THE PE AS DOCUMENTED BY DAILY FIELD ACTIVITY REPORTS (TRC). UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

NOT TO SCALE
SHEET SIZE: 11" BY 17"

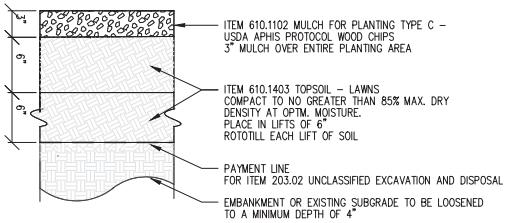
PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

TITLE:
AS-BUILT SITE COVER CROSS SECTION DETAILS PLAN

DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	JANUARY 2022
PROJ. NO.:	252356.0004.0000
FILE:	Fig.8b - As-Built Site Cover X-Sct. Det. Plan.dwg

FIGURE 8b

1317 – USER: HDelgado – ATTACHED XREFS: 1 FILE CPH, PLD_01 – ATTACHED IMAGES: Adult Pavr. Det Plan.bmp:D32541, Plate, Contorted, 0.5-1.5, WPS Sub-Pavers;
DRAWING NAME: \\windsor\drfiles\Data\Graphics\CADNY\SGT DALE Sites\252356-0000\Figures (2022)\TRC-Working Drawings\Fig.8b - As-Built Site Cover X-Sct. Det. Plan.dwg – PLOT DATE: January 17, 2022 - 3:37PM – LAYOUT: 11x17L
Version: 2017-10-21



1 SOIL PLACEMENT FOR TYPICAL PLANT BEDS

SCALE; NTS

NOTE: The demarcation layer is not shown on the figure. Figure 8 provides the as-built demarcation layer elevation information across the Site. All landscaped areas have a minimum of 2 feet of clean soil cover meeting Restricted Residential Use SCOs.

STATE OF NEW YORK
JAMES PERONTO
083961
LICENSED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER:
JAMES PERONTO, P.E.

DATE:
JANUARY 17, 2022

THIS AS-BUILT DRAWING PROFESSIONAL ENGINEER (PE) CERTIFICATION IS BASED ON A PRODUCT OF OR COMPILATION OF INFORMATION AND/OR DOCUMENTATION PROVIDED BY OTHERS INCLUDING THE AS-BUILT FINAL SITE COVER PLAN TITLED "PLANTING AND PLANT CARE DETAILS - SHRUBS, PERENNIALS, & SOIL" DRAWING NO. PLD-04 DATED 08/22/2016 AND PREPARED FOR THE NYSDOT WITH NY PE STAMP BY JIMMY W. LAU (#001216), AND INSPECTIONS BY THE CERTIFYING PE (TRC) AND OTHERS ACTING UNDER THE DIRECTION OF THE PE AS DOCUMENTED BY DAILY FIELD ACTIVITY REPORTS (TRC). UNDER NEW YORK STATE EDUCATION LAW ARTICLE 145 (ENGINEERING SECTION 7909(2)), IT IS A VIOLATION OF THE LAW FOR ANY PERSON TO ALTER THIS DOCUMENT THAT BEARS THE SEAL OF THE PROFESSIONAL ENGINEER, UNLESS THE PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

NO.	BY	DATE	REVISION	APP'D.

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trccompanies.com

NOT TO SCALE
SHEET SIZE: 11" BY 17"

PROJECT:
NEW YORK STATE DEPARTMENT OF TRANSPORTATION
FORMER ACME STEEL SITE / PART OF CURRENT SGT. DOUGHERTY PARK
BROOKLYN, NEW YORK

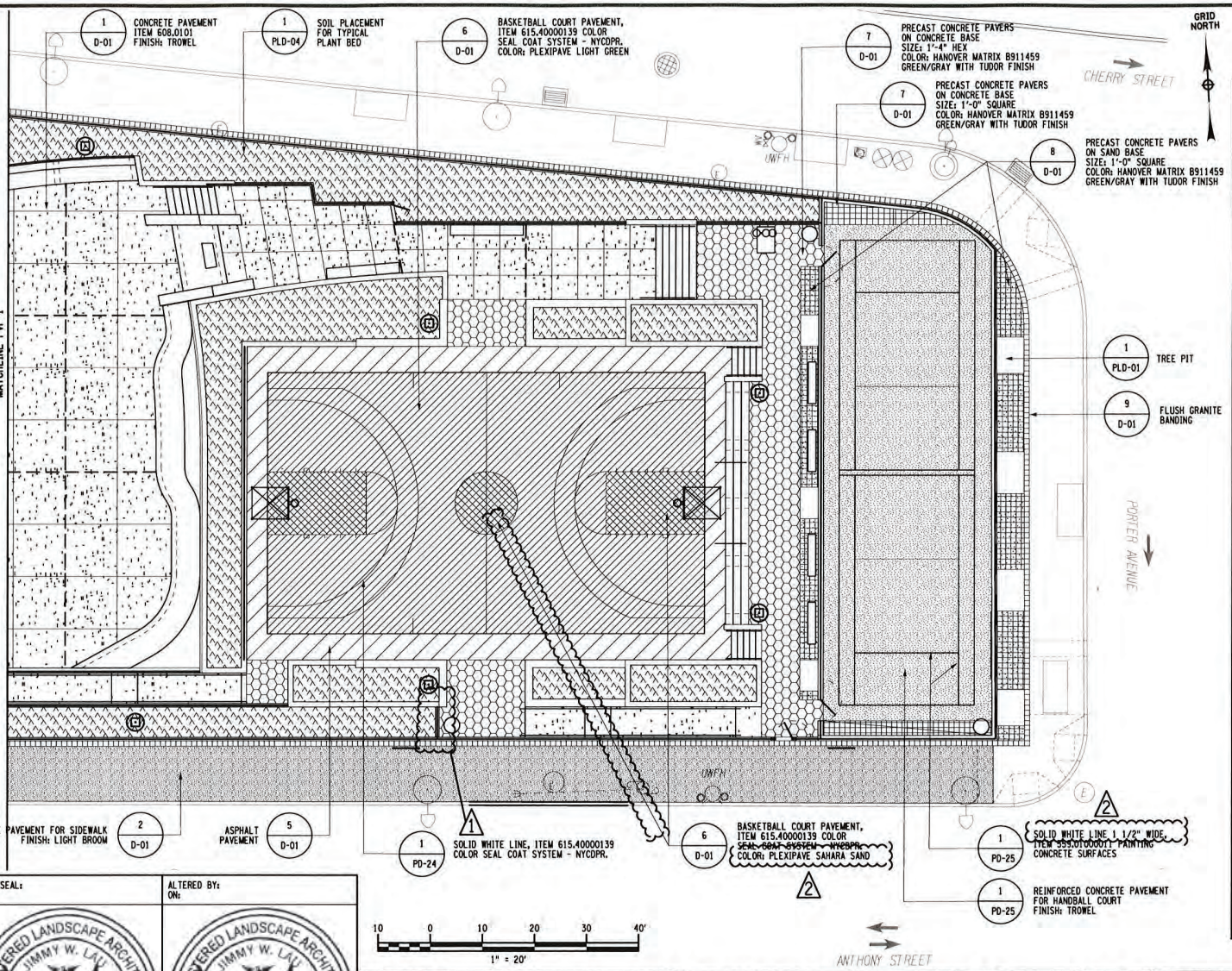
TITLE:
AS-BUILT SITE COVER CROSS SECTION DETAILS PLAN

DRAWN BY:	H. DELGADO
CHECKED BY:	J. PERONTO
APPROVED BY:	J. PERONTO
DATE:	JANUARY 2022
PROJ. NO.:	252356.0004.0000
FILE:	Fig.8c - As-Built Site Cover X-Sct. Det. Plan.dwg

FIGURE 8c

1317 – USER: HDelgado – ATTACHED WSFS: 1145 CPH: PLD_04 – ATTACHED IMAGES: Adult Pavc Det Plan.bmp:032341, Pavc Contorna:1-5-19, WPS Sub-Pavers:
DRAWING NAME: N:\windows\ny\22\cad\Graphics\CAD\NYSDOT\ACME Steel\252356\0000\Figures (2022)\TRC Working Drawings\Fig.8c - As-Built Site Cover X-Sct. Det. Plan.dwg – PLOT DATE: January 17, 2022 - 2:11PM – LAYOUT: 11x17L
Version: 2017-10-21

• THIS SHEET SUPERSEDES SHEET 42R1 •



SYMBOL	DESCRIPTION
	JOINT KEY POINTS
	1/8" EXPANSION JOINT
	1/8 SAWCUT JOINT
	1 / D-01 CONCRETE PAVEMENT ITEM 608.0101 FINISH: SKATEPARK - TROWEL FINISH: WALKWAYS - LIGHT BROOM
	1 / PD-25 REINFORCED CONCRETE PAVEMENT FOR HANDBALL COURT FINISH: TROWEL
	2 / D-01 CONCRETE PAVEMENT FOR SIDEWALK FINISH: LIGHT BROOM
	7 / D-01 PRECAST CONCRETE PAVERS ON CONCRETE BASE SIZE: 1'-4" HEX COLOR: HANOVER MATRIX B911459 GREEN/GRAY WITH TUDOR FINISH
	7 / D-01 PRECAST CONCRETE PAVERS ON CONCRETE BASE SIZE: 1'-0" SQUARE COLOR: HANOVER MATRIX B911459 GREEN/GRAY WITH TUDOR FINISH
	8 / D-01 PRECAST CONCRETE PAVERS ON SAND BASE SIZE: 1'-0" SQUARE COLOR: HANOVER MATRIX B911459 GREEN/GRAY WITH TUDOR FINISH
	5 / D-01 ASPHALT PAVEMENT
	6 / D-01 BASKETBALL COURT PAVEMENT, ITEM 615.40000139 COLOR SEAL COAT SYSTEM - NYCDPR. COLOR: PLEXIPAVE LIGHT GREEN
	6 / D-01 BASKETBALL COURT PAVEMENT, ITEM 615.40000139 COLOR ~~SEAL COAT SYSTEM - NYCDPR.~~ COLOR: PLEXIPAVE SAHARA SAND 2
	1 / PLD-04 SOIL PLACEMENT FOR TYPICAL PLANT BED

AFFIX SEAL: ON:

ALTERED BY: ON:

REGISTERED LANDSCAPE ARCHITECT JIMMY W. LAU No. 001219 STATE OF NEW YORK

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:
12/20/17 MOVED CURB & FENCE TO IMPROVE ACCESS TO ADJACENT SEATING 1

7/20/18 CHANGED BASKETBALL COURT COLORS AND ADDED LINES PER UPDATED NYCDPR STANDARDS. CHANGED HANDBALL COURT LINE COLOR PER NYCDPR 2

THE MITIGATION & RESTORATION OF
SGT. WILLIAM DOUGHERTY PARK

COUNTY: KINGS REGION: 11

PIN X731.43

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

PAVEMENT PLAN 02

CONTRACT NUMBER D263241

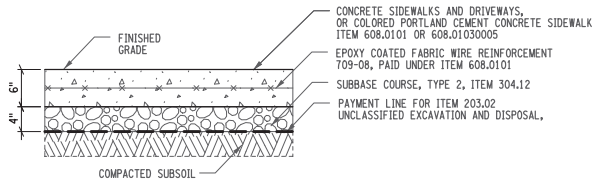
DRAWING NO. PVP-02
SHEET NO. 42R2

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

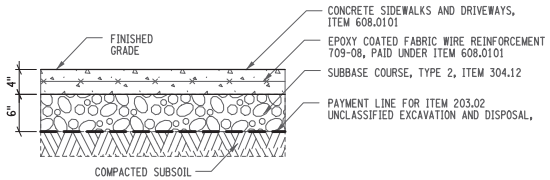
NEW YORK STATE OF OPPORTUNITY. Department of Transportation

DESIGN SUPERVISOR JLLAU | JOB MANAGER OKLEYMAN/MLGERVICKAS | DESIGN MLGERVICKAS | CHECK JLLAU | DRAFTING MLGERVICKAS | CHECK JLLAU | PROJECT MANAGER JLLAU

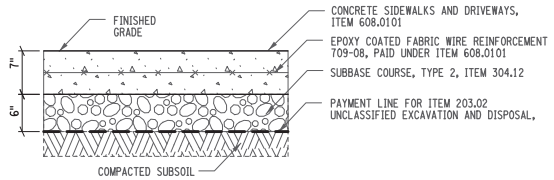
FILE NAME = D263241_X731.43_CPH_PVP_02_R2.dgn
DATE/TIME = 23-JUL-2018 12:19
USER = mlgervickas



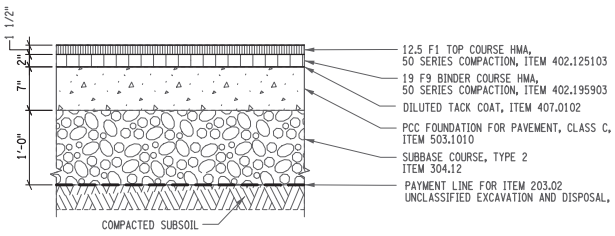
1 CONCRETE PAVEMENT



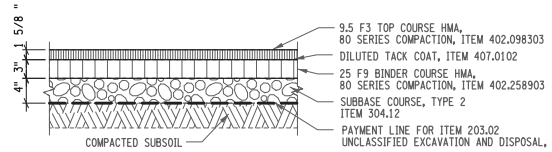
2 CONCRETE PAVEMENT FOR SIDEWALK



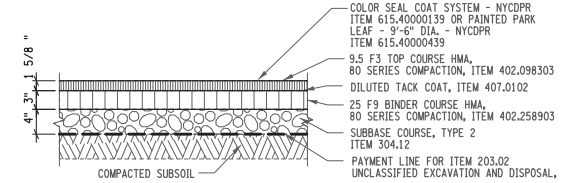
3 CONCRETE PAVEMENT FOR DRIVEWAY



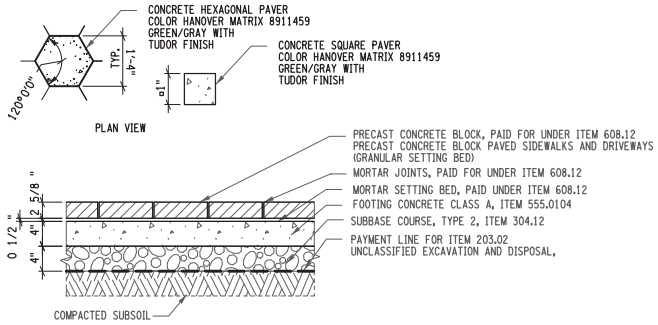
4 ROAD PAVEMENT



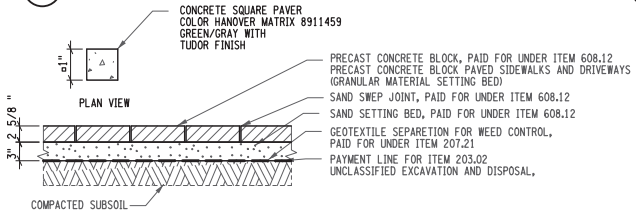
5 ASPHALT PAVEMENT



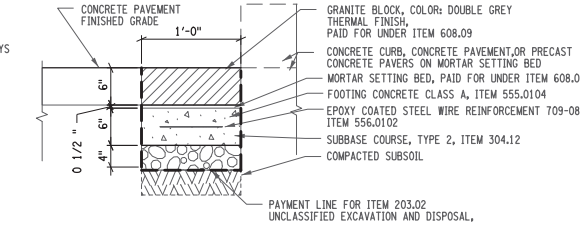
6 BASKETBALL COURT PAVEMENT



7 PRECAST CONCRETE PAVERS ON CONCRETE BASE

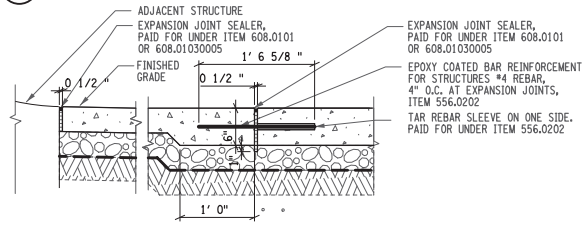


8 PRECAST CONCRETE PAVERS ON SAND BASE



9 FLUSH GRANITE BAND

NOTE: 1/2" MORTAR JOINTS PAID FOR UNDER ITEM 608.09



10 1/2" EXPANSION JOINT AT CONCRETE PAVEMENT

NOTE: SEE PAVEMENT PLANS FOR SIZE, SHAPE, FINISH AND COLOR

REFERENCES		DWG. NO.
1.	MATERIALS PLAN	MP-1,2
2.	LAYOUT PLAN	LP-1,2
3.	LAYOUT DATA TABLE	LDT
4.	GRADING PLAN	GP-1,2
5.	PAVEMENT PLAN	PVP-1,2

AFFIX SEAL: ON:

ALTERED BY: ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

THE MITIGATION & RESTORATION OF
SGT. WILLIAM DOUGHERTY PARK

COUNTY: KINGS REGION: 11

PIN X731.43

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

DETAILS - PAVING

CONTRACT NUMBER D263241

DRAWING NO. D-01

SHEET NO. 76

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

NEW YORK STATE OF OPPORTUNITY. Department of Transportation

PROJECT MANAGER J.LAU
CHECK M.GERVICKAS
DRAFTING V.ZAVOROKHIN
CHECK J.LAU
DESIGN V.ZAVOROKHIN
JOB MANAGER D.KLEYMAN/M.GERVICKAS
DESIGN SUPERVISOR J.LAU

FILE NAME = X731.43.cpl.d.01.dgn
DATE/TIME = 22-AUG-2016 13:54
USER = mgervickas

APPENDIX F - COMMUNITY AIR MONITORING PLAN

COMMUNITY AIR MONITORING PLAN

FORMER ACME STEEL PARTITIONS CO.
ON PART OF SGT. WILLIAM DOUGHERTY PARK
513 PORTER AVENUE
BROOKLYN, NEW YORK

Prepared for:

New York State Department of Transportation

Prepared by:

TRC Engineers, Inc.
New York, NY

January 2022

TABLE OF CONTENTS

Section	Title	Page
1.0	INTRODUCTION	1-1
1.1	Description of Surrounding Property	1-1
1.2	Contaminants of Concern (COCs)	1-1
2.0	PURPOSE	2-1
3.0	AIR MONITORING PROCEDURES	3-1
3.1	Particulate Monitoring, Response Levels, and Actions	3-1
4.0	REPORTING	4-1

FIGURES

Figure 1 Site Location Map

APPENDICES

Appendix 1A New York State Department of Health Generic Community Air Monitoring Plan

Appendix 1B Fugitive Dust and Particulate Monitoring

1.0 INTRODUCTION

TRC Engineers, Inc. (TRC) under contract to the New York State Department of Transportation (NYSDOT) prepared this Community Air Monitoring Plan (CAMP) for implementation at the Sgt. William Dougherty Park which is occupied by the Former ACME Steel Partition Co. Site (the "Site") located at 513 Porter Avenue in Brooklyn, New York. Part of the Site is occupied by part of the Sgt. William Dougherty Park which is a public park operated by the New York City Department of Parks and Recreation. The Site Location Map is presented in Figure 1.

1.1 Description of Surrounding Property

The surrounding properties consist of mixed-use residential, commercial, and industrial structures. Historically, surrounding area structures were mainly utilized for commercial and industrial operations. The entrance ramp to the northbound Brooklyn-Queens Express (BQE) is located north of the Site, Porter Avenue followed by a one-story warehouse building is located east of the site, Anthony Street followed by a warehouse with showrooms is located south of the site, and the adjoining remaining portion of the public park is located west of the Site.

1.2 Contaminants of Concern (COCs)

Elevated levels of several metals (lead, arsenic, mercury, and cadmium) are present in Site soils above NYS restricted residential soil cleanup objectives (SCOs). In order to eliminate the contaminated soil exposure pathway, pavement or clean soil will cap the remaining soil/fill. In landscaped areas, a minimum of two feet of clean imported fill, meeting the NYSDEC Restricted Residential SCOs at 6 NYCRR Part 375-6.8(b), will cover any unpaved areas of the Site. An orange-colored plastic safety fence material is located below the clean cover materials as a visual demarcation layer. Future park maintenance or construction activities may disturb the clean cover conditions located on or around the Site and, therefore, require specific procedures for community air monitoring. Those CAMP procedures for the Site are presented in this plan.

2.0 PURPOSE

This CAMP will be implemented during any ground intrusive work (or other activities that involve excavating, moving, or otherwise exposing and disturbing soils below the demarcation layer on- or off- the Site). This document is prepared in accordance with the New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan guidance, Appendix 1A and Fugitive Dust and Particulate Monitoring, Appendix 1B, contained in New York State Department of Environmental Conservation (NYSDEC) DER-10 *Technical Requirements for Site Remediation*, May 2010, Appendix 1 (Appendix 1A and 1B are included as attachments to this document). The CAMP is prepared to protect the surrounding community from exposure to potentially harmful particulates generated from ground intrusive activities. The CAMP is intended to protect the downwind public community and is not intended to establish respiratory protection levels for site workers.

During small scale soil disturbance activities such as those associated with the hand excavation and placement of new plants or trees in the planting bed soils that extend to depths below the demarcation layer, particulate/dust monitoring will be conducted with a handheld dust monitor in the immediate vicinity of the work. Whereas, during larger scale soil disturbance activities such as those associated with the use of heavy construction equipment (e.g., backhoe, excavator), dust monitoring will be conducted by the use of two stationary dust monitoring stations situated at strategic upwind and downwind locations at the perimeter of the subject park Site area. When choosing the stationary dust monitoring locations, the prevailing wind direction and location of sensitive receptors, such as residential neighborhoods, relative to the planned soil disturbance activities will be considered.

Work activities shall at all times be performed to minimize the generation of dust or odors (i.e., dust control measures/dust suppression techniques) as described further in Section 3.0.

3.0 AIR MONITORING PROCEDURES

A trained environmental monitor will be responsible for the conduct of the air monitoring and daily calibration and maintenance of the monitoring equipment in accordance with the manufacturer's specifications and recommendations. Monitoring personnel shall be trained and knowledgeable in the proper operation, maintenance, and calibration of the monitoring equipment. All instrumentation and equipment will be maintained at all times in proper operating condition by monitoring personnel. Instruction manuals for the monitoring equipment will be maintained with the monitoring equipment at the Site for reference. The environmental monitor will be responsible for documenting in a dedicated CAMP monitoring log each monitoring and calibration event, any equipment and instrument malfunctions, unusual conditions, air monitoring station location(s), periodic documentation of dust levels and any exceedances of action levels and countermeasures implemented.

The following describes the specific CAMP procedures for the excavation of the impacted soil and particulate monitoring on this Site.

3.1 Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored continuously at stationary air monitoring stations during ground intrusive work using both air monitoring equipment and visual observations. Monitoring equipment capable of measuring particulate matter smaller than 10 microns (PM-10), capable of integrating (averaging) over periods of 5 minutes, and meet the minimum performance standards presented in Appendix 1B (TSI DustTrak II 8530, or equivalent) for comparison to the below airborne particulate action levels. The dust meter will be calibrated at least annually by the manufacturer or supplier or more frequently if instrument repaired and a certificate of calibration maintained with the instrument. The stationary particulate monitoring stations will be located in environmental enclosures on tripods at heights approximately 4 feet to 5 feet above land surface (i.e., in the breathing zone). The particulate monitoring equipment will log 5-minute average concentrations for subsequent downloading and reporting. The equipment will be equipped with an audible alarm to indicate exceedance of the action level.

In addition, the environmental monitor will check and record the daily wind direction and speed as obtained from a local public meteorological monitoring station. Prevailing wind directions indicated by wind socks, flags or other nearby wind indicators at monitoring locations will also be observed and logged during the day. These observations will allow the environmental monitor to determine appropriate upwind and downwind monitoring locations. Upwind concentrations will be measured at the start of each workday and periodically throughout the day thereafter as needed to establish background conditions.

The particulate air monitoring results will be compared to the following action levels:

1. If the downwind PM-10 particulate level is <u>100 micrograms per cubic meter ($\mu g/m^3$) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area</u>, then dust suppression techniques will be employed.

Work may continue with dust suppression techniques, provided that downwind PM-10 particulate levels do not exceed 150 µg/m³ above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels for the 15-minute period are greater than 150 µg/m^3 above the upwind level, work will be stopped and a reevaluation of activities conducted. In addition, the 15-minute average background PM-10 levels will be immediately measured upwind of the station. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentrations to within 150 µg/m^3 above the upwind level and in preventing visible dust migration.

All 15-minute readings will be recorded and be available for NYCDPR, NYSDEC, and NYSDOH upon request.

There may be situations where visible dust is generated by excavation activities and migrates to downwind locations but is not detected by the monitoring equipment at or above the action levels. If visible dust is observed leaving the working area, dust suppression techniques will be employed. If visible dust persists subsequent to dust suppression techniques, additional measures, including work suspension if necessary, will be implemented to remedy the situation.

The following dust control measures will be required during all ground intrusive work to prevent the migration of potentially contaminated soil particles:

- Water misting will be performed in dry weather or as necessary to suppress dust during excavation activity. Water will be applied as necessary to dirt haul roads, open excavations and exposed soils, and excavator buckets;
- All soil transport vehicles will have tarp covers; and,
- For large soil excavations requiring the use of on-site trucks and heavy construction equipment, stabilized construction entrances using gravel pads will be placed at Site entrances/exits to prevent tracking of soil off site and generation of dust.

4.0 REPORTING

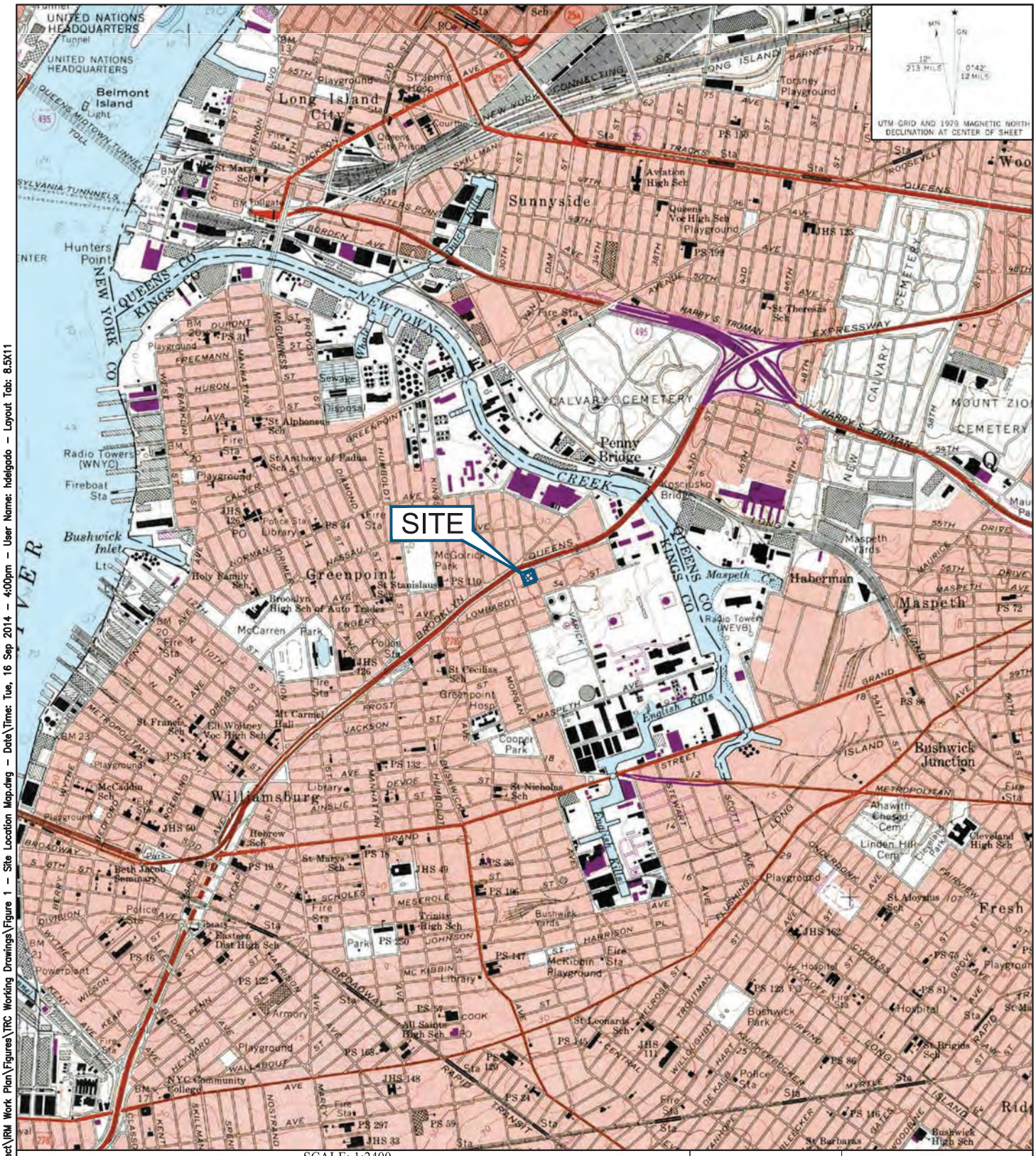
Any exceedance of a CAMP threshold or action level will be recorded in a work task-dedicated daily CAMP monitoring log. CAMP data will be reported to the NYSDEC and NYSDOH project managers on a weekly basis. Exceedances of action levels and corrective measures taken will be reported to the Departments immediately (within 24 hours).

If an exceedance is not resolved and results in a work shutdown, NYCDPR will be notified verbally immediately and additionally via email within 1 hour of the time it is recorded. Each report will include the construction activities being performed at the time of the exceedance and location; location of the monitoring station where the exceedance was recorded; reading at upwind location; readings at downwind location(s); date, time, and number and duration of elevated readings (i.e., number of 15 minute average action level exceedances); and descriptions of controls and countermeasures implemented to stop the exceedance and prevent future occurrences.

At the completion of each workday, the electronic data files recorded by each air monitoring station will be downloaded onto portable electronic file storage media for review and recordkeeping by the environmental monitor. In addition, at the completion of the work, copies the daily CAMP monitoring logs and all recorded monitoring data files will be transmitted electronically to NYCDPR for documenting compliance with the CAMP.

Exceedances of action levels and corrective measures taken will be reported to the NYSDEC and NYSDOH immediately (within 24 hours).

FIGURE 1
SITE LOCATION MAP



SCALE: 1:2400

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER

BROOKLYN, N. Y.
N4037.5—W7352.5/7.5
1967
PHOTOREVISED 1979
AMS 6265 III NW—SERIES V821

MAP OBTAINED THROUGH USE OF MAPTECH TERRAIN NAVIGATOR PRO SOFTWARE.

TRC
1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018
212-221-7822

DESIGNED BY: KS	PROJECT NAME: FORMER ACME STEEL PARTITIONS, INC. IRM WORK PLAN 513 PORTER AVENUE BROOKLYN, NEW YORK 11222
DRAWN BY: HD	
CHECKED BY: CG	
DATE: SEPTEMBER 2014	DRAWING TITLE: SITE LOCATION MAP
SCALE: AS SHOWN	
PROJECT NUMBER: 200726.0010.0000	

FIGURE 1

Path\Name: I:\Projects\200726 – Kosciuszko Bridge Project\IRM Work Plan\Figures\TRC Working Drawings\Figure 1 – Site Location Map.dwg – Date\Time: Tue, 16 Sep 2014 – 4:00pm – User Name: hdelgado – Layout Tab: 8.5X11

ATTACHMENT A
DER-10 APPENDIX 1A – NEW YORK STATE DEPARTMENT OF HEALTH GENERIC COMMUNITY AIR MONITORING PLAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

ATTACHMENT B
DER-10 APPENDIX 1B – FUGITIVE DUST AND PARTICULATE MONITORING

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50° C (14 to 122° F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

APPENDIX G - SITE MANAGEMENT FORMS

ANNUAL SITE INSPECTION LOG
FORMER ACME STEEL SITE/SGT. WILLIAM DOUGHERTY PARK, BROOKLYN, NY

Vegetation _____ **Weather/Temperature:** _____

Date: _____ **Recent Significant Weather Events?** **Yes** **No**

If Yes, Describe: _____

			Condition Status		Corrective Action Required	Comment Number	Correction Date
			Satisf	Unsatisf			
SOIL COVER AREAS	PLANTING BED - CHERRY STREET	Vegetation	Y	N			
		Erosion	Y	N			
		Mulch coverage sufficient?	Y	N			
		Settlement or subsistence?	Y	N			
		Visibile orange demarcation layer (safety fence)?	Y	N			
		Any recent excavation/disturbance?	Y	N			
		If yes, was cover adequately repaired/vegetated?	Y	N			
	PLANTING BED - ANTHONYSTREET	Vegetation	Y	N			
		Erosion	Y	N			
		Mulch coverage sufficient?	Y	N			
		Settlement or subsistence?	Y	N			
		Visibile orange demarcation fabric?	Y	N			
		Any recent excavation/disturbance?	Y	N			
		If yes, was cover adequately repaired/vegetated?	Y	N			
	PLANTING BOX - SKATE PARK	Vegetation	Y	N			
		Erosion	Y	N			
		Mulch coverage sufficient?	Y	N			
		Settlement or subsistence?	Y	N			
		Visibile orange demarcation fabric?	Y	N			
		Any recent excavation/disturbance?	Y	N			
		If yes, was cover adequately repaired/vegetated?	Y	N			
	PLANTING BOX - CHERRY STREET	Vegetation	Y	N			
		Erosion	Y	N			
		Mulch coverage sufficient?	Y	N			
		Settlement or subsistence?	Y	N			
		Visibile orange demarcation fabric?	Y	N			
		Any recent excavation/disturbance?	Y	N			
		If yes, was cover adequately repaired/vegetated?	Y	N			
TREE PITS	PORTER AVENUE	Vegetation	Y	N			
		Erosion	Y	N			
		Mulch coverage sufficient?	Y	N			
		Settlement or subsistence?	Y	N			
		Visibile orange demarcation fabric?	Y	N			
		Any recent excavation/disturbance?	Y	N			
		If yes, was cover adequately repaired/vegetated?	Y	N			
	HANDBALL COURT (WEST SIDE)	Vegetation	Y	N			
		Erosion	Y	N			
		Mulch coverage sufficient?	Y	N			
		Settlement or subsistence?	Y	N			
		Visibile orange demarcation fabric?	Y	N			
		Any recent excavation/disturbance?	Y	N			
		If yes, was cover adequately repaired/vegetated?	Y	N			

Enter detailed comments at the end of the log

Inspector Initials:_____

Date: _____

ANNUAL SITE INSPECTION LOG
FORMER ACME STEEL SITE/SGT. WILLIAM DOUGHERTY PARK, BROOKLYN, NY

			Condition Status		Corrective Action Required	Comment Number	Correction Date
			Satisf	Unsatisf			
PAVED AREAS	BASKETBALL COURT	Surface Condition (e.g., cracks, holes, damage)	Y	N			
		Depressions/settlement	Y	N			
		Exposed underlying gravel?	Y	N			
		Visible orange demarcation fabric?	Y	N			
		Any recent pavement repairs?	Y	N			
		If yes, was pavement adequately repaired?	Y	N			
	SKATE PARK	Surface Condition (e.g., cracks, holes, damage)	Y	N			
		Depressions/settlement	Y	N			
		Exposed underlying soil?	Y	N			
		Visible orange demarcation fabric?	Y	N			
		Any recent pavement repairs?	Y	N			
		If yes, was pavement adequately repaired?	Y	N			
	HANDBALL COURT	Surface Condition (e.g., cracks, holes, damage)	Y	N			
		Depressions/settlement	Y	N			
		Exposed underlying soil?	Y	N			
		Visible orange demarcation fabric?	Y	N			
		Any recent pavement repairs?	Y	N			
		If yes, was pavement adequately repaired?	Y	N			
	CONCRETE PAVEMENT/PAVERS - CHERRY ST.	Surface Condition (e.g., cracks, holes, damage)	Y	N			
		Depressions/settlement	Y	N			
		Exposed underlying soil?	Y	N			
		Visible orange demarcation fabric?	Y	N			
		Any recent pavement repairs?	Y	N			
		If yes, was pavement adequately repaired?	Y	N			
	CONCRETE PAVEMENT/PAVERS - PORTER AVE.	Surface Condition (e.g., cracks, holes, damage)	Y	N			
		Depressions/settlement	Y	N			
		Exposed underlying soil?	Y	N			
		Visible orange demarcation fabric?	Y	N			
		Any recent pavement repairs?	Y	N			
		If yes, was pavement adequately repaired?	Y	N			
	CONCRETE PAVEMENT/PAVERS - ANTHONY STREET	Surface Condition (e.g., cracks, holes, damage)	Y	N			
		Depressions/settlement	Y	N			
		Exposed underlying soil?	Y	N			
		Visible orange demarcation fabric?	Y	N			
		Any recent pavement repairs?	Y	N			
		If yes, was pavement adequately repaired?	Y	N			

Inspector Signature: _____ **Inspector Name:** _____

Date: _____ **NYPE License #:** _____

COMMENTS

COMMENT NUMBER	COMMENT

ANNUAL SITE INSPECTION LOG
FORMER ACME STEEL SITE/SGT. WILLIAM DOUGHERTY PARK, BROOKLYN, NY

COMMENTS (continued)	
NUMBER	**COMMENT**

Inspector Initials:_____

Date: _____