



Source: ESRI World Street Map



MEEKER AVENUE PLUME TRACKDOWN AREA & LISTED CLASS 2 SITES

FIGURE

BACKGROUND

DEC Site ID: 224121

Name: Meeker Avenue Plume Trackdown

ExxonMobil Brooklyn Terminal Off-Site Soil Vapor Investigation, Phase I & II Report (Roux, October 2005):

- Installed/sampled 23 temporary soil vapor points
- PCE detected in samples collected from points both north & south of Meeker Ave., with the highest concentrations being 10,200 µg/m³ & 7,050 µg/m³.
- Trichloroethene (TCE) detected in samples collected from points both north & south of Meeker Ave., with the highest concentrations being 4,500 µg/m³ & 151,000 µg/m³.

New York State Department of Transportation Kosciuszko Bridge Project (Environmental Planning & Management, Inc., January 2006):

- Tetrachloroethene (PCE) detected in a soil sample collected from a boring on Gardner Ave. & Thomas St.
- PCE detected in groundwater samples collected from groundwater monitoring wells located east of Vandervoort Ave., between Anthony & Thomas Streets.

ExxonMobil Brooklyn Terminal Phase IV Soil Vapor Report, Off-Site Commercial/Industrial/Residential Area (Roux, November, 2006):

- Installed/sampled 50 permanent soil vapor points
- PCE was detected at 1,300 µg/m³ at the point located at the northwestern corner of the intersection of Morgan & Nassau Ave., & at 930 µg/m³ at the point on the western side of Van Dam St. between Nassau & Meeker Ave.
- TCE was detected at 8,200 µg/m³ at the point on the eastern side of Apollo St. between Bridgewater St. & Nassau Ave., & at 700 µg/m³ at the point on the northwestern corner of the intersection of Morgan & Nassau Ave.

Based upon the NYSDOT & ExxonMobil reports above, the New York State Department of Environmental Conservation (NYSDEC) initiated a Site Characterization (SC) to identify the source(s) of PCE and TCE and issued a Work Assignment to URS Corporation – New York

DEC Site ID: 224121

Name: Meeker Avenue Plume Trackdown

Site Characterization Phase I Summary Report, September 2007:

- Fieldwork: 5/7/2007 - 9/11/2007
- Installed/sampled 23 soil vapor points, 22 soil borings & 22 groundwater monitoring wells

Site Characterization Phase II Summary Report, April 2008:

- Fieldwork: 11/5/2007 - 12/27/2007
- Installed/sampled 28 soil vapor points, 25 soil borings, 15 direct-push groundwater sampling locations, & 14 groundwater monitoring wells

Site Characterization Phase III Summary Report, October 2008:

- Fieldwork: 5/5/2008 - 7/24/2008
- Installed/sampled 14 soil vapor points, 24 soil borings, 20 direct-push groundwater sampling locations, & 24 groundwater monitoring wells

Site Characterization Phase IV Summary Report, May 2009:

- Fieldwork: 11/3/2008 - 12/8/2008

- Advanced 4 Membrane Interface Probe borings
- Installed/sampled 8 groundwater monitoring wells, and advanced 8 soil borings

Site Characterization Phase V Summary Report, October 2009:

- Fieldwork: 6/15/2009 - 7/13/2009
- Installed/sampled 10 groundwater monitoring wells
- Advanced 8 soil borings

Groundwater Split Sampling Event Letter Report, January 2010:

- Fieldwork: 9/24/2009
- Sampled 8 groundwater monitoring wells for Compound Specific Isotope Analysis (CSIA)

Limited Groundwater Sampling Event Letter Report, January 2010:

- Fieldwork: 11/3/2009 - 11/9/2009
- Sampled 20 groundwater monitoring wells

Site Characterization Phase VI Summary Report, April 2012:

- Fieldwork: 8/2/2011 - 1/13/2012
- Installed/sampled 10 soil vapor points & 35 groundwater monitoring wells, and advanced 58 soil borings

Expanded Outreach Area (EOA) SVI Investigation Phase I Summary Report, January 2013:

- Fieldwork: 7/19/2012 - 8/15/2012
- Installed/sampled 35 soil vapor points

Expanded Outreach Area (EOA) SVI Investigation Phase II Summary Report, March 2013:

- Fieldwork: 12/11/2012 & 3/6/2013
- Installed/sampled 15 soil vapor points

Site Characterization Phase VII Summary Report, November 2013:

- Fieldwork: 6/11/2012 - 3/27/2013
- Installed/sampled 10 soil vapor points & 24 groundwater monitoring wells, and advanced 24 soil borings

Expanded Outreach Area (EOA) SVI Investigation Phase III Summary Report, March 2014:

- Fieldwork: 10/7/2013 - 10/10/2013
- Sampled 50 soil vapor points

Expanded Outreach Area (EOA) SVI Investigation Phase IV Summary Report, January 2015:

- Fieldwork: 8/18/2014 - 8/26/2014
- Sampled 50 soil vapor points
- Soil vapor implant inspection and maintenance activities

2014 Monitoring Well & Soil Vapor Implant Inspection & Maintenance Letter Report, April 2015:

- Fieldwork occurred in phases throughout the 2014 calendar year
- Replaced 82 sidewalk flags, inspected 137 soil vapor implants & 200 groundwater monitoring wells
- Stenciled 155 groundwater monitoring wells & 117 soil vapor implants
- Decommissioned 12 groundwater monitoring wells & 53 soil vapor implants

Site Characterization Phase VIII Summary Report, September 2015:

- Fieldwork: 10/27/2014 - 12/19/2014

- Installed/sampled 10 soil vapor points & 20 groundwater monitoring wells, and advanced 56 soil borings

2015 Monitoring Well & Soil Vapor Implant Inspection & Maintenance Letter Report, March 2016:

- Fieldwork occurred in phases throughout the 2015 calendar year
- Replaced 21 well pads and 40 sidewalk flags
- Inspected 150 soil vapor implants & 275 groundwater monitoring wells
- Stenciled 266 groundwater monitoring wells & 147 soil vapor implants
- Decommissioned 6 groundwater monitoring wells

Site Characterization Phase IX Summary Report, September 2016:

- Fieldwork: 10/5/2015 - 3/31/2016
- Installed/sampled 32 groundwater monitoring wells, and advanced 32 soil borings

Site Characterization Phase X (Ongoing):

- Fieldwork: 10/4/2016 - ongoing
- Installed 19 groundwater monitoring wells (sampling event scheduled for December 2016)

Community Outreach/Soil Vapor Intrusion (SVI) Investigations:

- SVI Investigation, February-March 2008: Outreach to 57 locations; 12 structures sampled
- SVI Investigation, February-March 2009: Outreach to 172 locations; 45 structures sampled
- SVI Investigation, February-March 2010: Outreach to 120 locations; 24 structures sampled
- SVI Investigation, February-March 2011: Outreach to 35 locations; 8 structures sampled
- SVI Investigation, January 2015: Outreach to 2 locations; 2 structures sampled

SSD Installations/Maintenance:

- Initial Efforts 2/28/2008 - 9/21/2010 (i.e., contacting property owners, installations, etc.)
- Installed SSD systems in 16 structures
- 1st SSD Construction Letter Report, October 2009
- 2nd SSD Construction Letter Report, November 2010
- Supplemental field inspections 12/10/2012 - 2/5/2013 (repair & maintenance activities)

DEC Site ID: 224129

Name: Former Spic & Span Cleaners & Dyers, Inc.

Remedial Investigation Phase I Report, December 2011:

- Fieldwork: 1/24/2011 - 3/25/2011
- Installed/sampled 14 soil vapor points & 16 groundwater monitoring wells, and advanced 26 soil borings

Remedial Investigation Phase II Report, September 2012:

- Fieldwork: 11/7/2011 - 2/15/2012
- Installed/sampled 14 soil vapor points & 8 groundwater monitoring wells, and advanced 17 soil borings

Crown Property Groundwater Sampling Event Letter Report, April 2013:

- Fieldwork: 1/21/2013 - 1/23/2013
- Sampled 23 groundwater monitoring wells

Off-Site Phase III Remedial Investigation Letter Report, September 2014:

- Fieldwork: 1/20/2014 - 5/7/2014
- Installed/sampled 11 soil vapor points & 18 groundwater monitoring wells, and advanced 18 soil borings

315 Kingsland Avenue Underground Storage Tank (UST) NYSDEC Spill #14-02556, Data Summary Report, January 2015:

- Fieldwork: 5/28/2014 - 7/18/2014
- On 6/2/2014, 1,000-gallon UST confirmed via geophysical survey
- Spill reported on 6/9/2014 based on subsurface conditions encountered during field activities
- Collected a representative sample of the 1,000-gallon UST contents

On-Site Phase III Remedial Investigation Report, March 2015:

- Fieldwork: 5/28/2014 - 7/18/2014
- Utility tracer test
- Soil vapor survey at 23 locations within 315 Kingsland Avenue
- Indoor air testing in 1 structure & soil vapor intrusion investigation in 3 structures
- Installed/sampled 6 sub-slab soil vapor points, installed 8 groundwater monitoring wells, & sampled 22 groundwater monitoring wells
- Source tetrachloroethene (PCE), Dense Non-Aqueous Phase Liquid (DNAPL) recovery testing from 3 groundwater monitoring wells

300 Kingsland Remedial Investigation Letter Report, September 2015:

- Fieldwork: 5/18/2015 - 5/21/2015
- Installed/sampled 6 sub-slab soil vapor implants and advanced 7 soil borings

Dense Non-Aqueous Phase Liquid (DNAPL) Recovery Pilot Test Report, November 2015:

- Fieldwork: 1/5/2015 - 3/27/2015
- Advanced 21 soil borings & 3 bucket auger borings
- Installed 10 groundwater monitoring wells & 2 DNAPL extraction wells
- Collected 23 groundwater samples
- Source tetrachloroethene (PCE DNAPL) recovery from 2 extraction wells & 3 groundwater monitoring wells

Interim Remedial Measure (IRM) Work

Underground Storage Tank (UST) Closure Report, February 2016:

- Fieldwork: 9/21/2015 - 9/25/2015
- Excavated and removed 1,000-gallon UST & 18.6 tons of contaminated soil
- Backfilled excavation with clean soil

Dense Non-Aqueous Phase Liquid (DNAPL) Recovery Letter Report, February 2016:

- Fieldwork: 2/2015 - 10/30/2015
- Recovered 267.5 gallons (3,357 lbs.) of source tetrachloroethene (PCE DNAPL) from 3 extraction wells & 5 groundwater monitoring wells
- Source PCE DNAPL recovery is ongoing at monthly intervals
- Source PCE DNAPL measured in 12 wells at monthly intervals
- Installed 4 new extraction wells in November 2016

DEC Site ID: 224130

Name: Former Klink Cosmo Cleaners

Remedial Investigation Phase I Investigation Report, December 2011:

- Fieldwork: 5/2/2011 - 7/15/2011
- Installed/sampled 10 soil vapor points & 17 groundwater monitoring wells, & advanced 17 soil borings

Remedial Investigation Phase II Investigation Report, November 2012:

- Fieldwork: 2/27/2012 - 4/20/2012
- Installed/sampled 12 soil vapor points & 12 groundwater monitoring wells, and advanced 12 soil borings

Off-Site Phase III Remedial Investigation Letter Report, September 2014:

- Fieldwork: 12/9/2013 - 3/7/2014
- Installed/sampled 5 soil vapor points & 3 groundwater monitoring wells, and advanced 3 soil borings

On-Site Phase III Remedial Investigation Report, March 2016:

- Fieldwork: 4/13/2015 - 8/27/2015
- Installed 3 observation wells, 2 air sparge wells, 1 combined observation/air sparge well, & 2 soil vapor extraction wells
- Sampled 6 sub-slab soil vapor implants
- Installed/sampled 7 groundwater monitoring wells and advanced 7 soil borings

SVE/SP Pilot Study Report, March 2016:

- Fieldwork: 11/16/2015 - 11/19/2015
- Conducted to determine the effectiveness of the air sparge wells and soil vapor extraction wells installed during the Phase III Remedial Investigation, and determined radius of influence

DEC Site ID: 224131

Name: ACME Steel/ Metal Works

(Being investigated/remediated under Consent Order with NYSDEC)

Remedial Investigation Report, July 2013:

- Fieldwork: 9/18/2012 – 12/13/2012
- 10 groundwater monitoring wells
- Sampled 4 soil vapor implants, 4 sub-slab soil vapor implants, 4 indoor air locations, 9 soil borings, & 15 groundwater monitoring wells

DEC Site ID: 224132

Name: ACME Steel/ Brass Foundry

(Being investigated/remediated under Consent Order with NYSDEC)

Remedial Investigation Report, June 2013:

- Fieldwork: 9/18/2012 – 1/16/2013
- Installed 10 groundwater monitoring wells
- Sampled 2 soil vapor implants, 2 sub-slab soil vapor implants, 2 indoor air locations, 11 soil borings, & 19 groundwater monitoring wells

DEC Site ID: 224182

Name: Former Lombardy Street Lacquer & Soap Mfg.

Pending funding availability.

DEC Site ID: 224221

Name: Goodman Bros. Steel Drum Co. Inc. / Historic Cooperage

Pending funding availability.