LETTER REPORT

2014 DECOMMISSIONING AND SIDEWALK REPLACEMENT EFFORT

WORK ASSIGNMENT C007540-5.2

MEEKER AVENUE PLUME TRACKDOWN
GREENPOINT/EAST WILLIAMSBURG INDUSTRIAL AREA

SITE NO. 224121
KINGS (C), NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Joseph Martens, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION
REMEDIAL BUREAU B

URS Corporation
257 West Genesee Street, Suite 400
Buffalo, New York 14202

Final
November 2014
LETTER REPORT

2014 DECOMMISSIONING AND SIDEWALK FLAG REPLACEMENT EFFORT
AT THE
MEEEKER AVENUE PLUME TRACKDOWN SITE

SITE ID NO. 224121
GREENPOINT/EAST WILLIAMSBURG INDUSTRIAL AREA
BROOKLYN, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
REMEDIAL BUREAU B
WORK ASSIGNMENT NO. C007540-5.2

PREPARED BY:

URS CORPORATION
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NEW YORK 14202

NOVEMBER 2014
November 17, 2014

Mr. David K. Harrington, P.E.
Senior Environmental Engineer
Remedial Bureau B
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016

Re: NYSDEC Standby Contract, Work Assignment No. C007540-5.2
Meeker Avenue Plume Trackdown Site, Site ID No. 224121
Letter Report – 2014 Decommissioning and Sidewalk Flag Replacement Effort

Dear Mr. Harrington:

URS Corporation - New York (URS) has prepared this Letter Report to summarize the field activities associated with the 2014 Decommissioning and Sidewalk Flag Replacement Effort that was performed at the Meeker Avenue Plume Trackdown Site [New York State Department of Environmental Conservation (NYSDEC) Site Number 224121] in the Greenpoint/East Williamsburg Industrial Area section of Brooklyn, New York (Figure 1). The work associated with the 2014 Decommissioning and Sidewalk Flag Replacement Effort was completed under NYSDEC Work Assignment No. C007540-5.2.

1.0 INTRODUCTION

The 2014 Decommissioning and Sidewalk Flag Replacement Effort was completed at the direction of the NYSDEC to remove soil vapor implants and monitoring wells that were no longer necessary for any on-going investigations at the Site. Following the decommissioning of the soil vapor implants and monitoring wells, the protective casings were removed and the sidewalk flags at each location (if present) were replaced in kind with the surrounding sidewalk flags.

Activities associated with the 2014 Decommissioning and Sidewalk Flag Replacement Effort consisted of:

- Decommissioning of 12 monitoring wells;
- Decommissioning of 53 soil vapor implants; and
- Restoration of 58 sidewalk flags in kind.

2.0 FIELD ACTIVITIES

The 2014 Decommissioning and Sidewalk Flag Replacement Effort field activities were performed between July 14 and September 18, 2014.
2.1 Monitoring Well Decommissioning

Between July 14 and 17, 2014, Summit Drilling, Inc. of Bridgewater, New Jersey (Summit) utilized a truck-mount Geoprobe 6600 direct-push/hollow stem auger (HSA) rig to decommission the 12 monitoring wells listed on Table 1. Table 1 also lists all monitoring wells decommissioned to date. The 12 monitoring well locations decommissioned are shown on Plate 1. The monitoring wells were decommissioned in accordance with NYSDEC protocol CP-43: Groundwater Monitoring Well Decommissioning Policy.

At DEC-021, 25 feet of the well string was removed, the well riser broke while attempting to pull the well string, the remainder of the well string was left in place, and a cement/bentonite slurry was installed via tremie pipe. At DEC-021D, the entire well string was removed and a cement/bentonite slurry was installed via tremie pipe. The cement/bentonite grout mixture used consisted of:

- Grout Composition (Percent Weight)
  - 1.5 to 3.0 percent - Bentonite (Quick Gel)
  - 40 to 60 percent - Cement (Portland Type I)
  - 40 to 60 percent – Water.

At the remainder of the monitoring wells, the top 1.5-10 feet of well riser was removed because an attempt to pull the well string was not successful. At most locations, the well riser was unthreaded and removed by hand. If the well risers could not be removed by hand, the top 5 foot interval was over drilled and removed using 4 1/4-inch inside diameter (ID) HSAs. Prior to removal of the top of the well riser, either by hand or over drilling, the wells were backfilled with bentonite chips.

Copies of the daily field notes and Daily Construction Reports are provided in Attachment 1 and well decommissioning records for each well may be found in Attachment 2.

2.2 Monitoring Well Maintenance

During previous well maintenance inspections, it was noted that the flush-mount protective casing at MW-44D was damaged. On July, 17 2014, URS removed the damaged flush-mount protective casing and well pad and installed a flush-mounted protective casing with a one-piece cast collar. Security bolts were installed in the well cover to minimize the potential for unauthorized well access. The concrete apron for the well pad was approximately 6 inches thick. Copies of the daily field notes and Daily Construction Reports are provided in Attachment 1.

2.3 Soil Vapor Implant Decommissioning

Between July 21 and September 18, 2014, AARCO Environmental Services Corporation of Lindenhurst, New York (AARCO) and URS, decommissioned the 53 soil vapor implants listed on Table 2. Table 2 also lists all soil vapor implants decommissioned or destroyed to date. The 53 soil vapor implant locations decommissioned in 2014 are shown on Plate 2. At each location, the soil vapor implant was removed and either the flush-mount protective casings was removed during
sidewalk flag replacement or the flush-mount protective casings was backfilled with concrete and will be removed at a later date. Copies of the Daily Construction Reports are provided in Attachment 1.

2.4 **Sidewalk Flag Replacement**

AARCO was contracted for the replacement of sidewalk flags where monitoring wells and soil vapor implants were decommissioned. AARCO replaced approximately 1,800 square feet of sidewalk flags between July 21 and August 5, 2014. The sidewalk flags ranged in size from 4-feet by 5-feet to 11.5-feet by 15-feet.

Prior to removal of the sidewalk flags, AARCO cut the perimeter of each flag to be replaced using a water-cooled pavement saw to reduce fugitive dust. The flags were demolished, removed and disposed of by AARCO. New flags were replaced in kind with the surrounding flags. All work was performed in accordance with Section 608 of New York State Department of Transportation (NYSDOT) Standard Specifications of May 6, 2010 specifically all sections which pertain to Portland concrete sidewalks and driveways. At locations where expansion joints were installed, the expansion joints were covered with a non-shrinking/pleiable sealant.

Copies of the Daily Construction Reports are provided in Attachment 1.

3.0 **RECOMMENDATIONS**

The following recommendations are offered for consideration by the NYSDEC.

- Seven additional monitoring well locations that are no longer necessary for any on-going investigations at the Site are recommended for future decommissioning. The seven additional wells are listed on Table 1 and shown on Plate 1.
- The sidewalk flags at former monitoring well locations DEC-006 and DEC-014 need to be replaced. These monitoring wells were decommissioned in March 2012 but the sidewalk flags were not replaced.
- A replacement well for DEC-033 should be installed approximately 50 feet north of the current DEC-033 location. The replacement well should be installed during the Phase III Off-Site RI field activities being performed under WA # C007540-4.2.

4.0 **TABLES, FIGURES, AND ATTACHMENTS**

The following tables, figures, and attachments are included as part of this letter report:

**Tables** (following text)

<table>
<thead>
<tr>
<th>Table 1</th>
<th>Monitoring Well Decommissioning Summary</th>
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<td>Table 2</td>
<td>Soil Vapor Implant Decommissioning Summary</td>
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Figures (following Tables)

Figure 1 Site Location

Plates (following Figures)

Plate 1 Decommissioned Monitoring Well Locations
Plate 2 Decommissioned Soil Vapor Implant Locations

Attachments (following Plates)

Attachment 1 Field Notes and Daily Construction Reports
Attachment 2 Monitoring Well Decommissioning Forms

Please contact me at 716-856-5636 if you have any questions or comments.

Sincerely,

URS Corporation

Michael Gutmann
Project Manager

cc: File: 11176465 (R-1)
George Kislik URS
Scott McCabe URS