BROWNFIELD CLEANUP PROGRAM DECISION DOCUMENT

1800 Southern Boulevard Site 1800 Southern Boulevard, Bronx, New York Site No. C203046 August 2009

Statement of Purpose and Basis

This Brownfield Cleanup Program (BCP) Decision Document presents the remedy identified by the Department of Environmental Conservation (Department) for the 1800 Southern Boulevard site. The remedial program was chosen in accordance with Article 27 Title 14 of the New York State Environmental Conservation Law and the 6 NYCRR375 regulations relative to the BCP.

Description of the Site

The 1800 Southern Boulevard site (the Site) is located in an urban portion of Bronx County, New York City, New York 10460 and is identified as Block 2984, Lots 1 and 7 on the New York City Tax Map. A Site location map (Figure 1) shows the Site location. The site is a triangular shaped parcel of land approximately 0.27-acres in size situated at the southern tip of a city block where Boston Road and Southern Boulevard cross, with Southern Boulevard to the west and Boston Road to the east and south. Currently, the site is occupied by a vacated former Amoco gas station and a fenced lot. The gas station has been vacant since 2003. The fenced area was a car wash that has been vacant since 1993. All of the facilities associated with the car wash have been demolished and this portion of the Site is currently a fenced, vacant open lot largely covered with exposed soil or overgrown with vegetation. Historic storage, transfer, and usage of petroleum products have resulted in impacts to soil, groundwater and soil vapor.

Completed investigations include:

- Delta Environmental Consultants, Inc. Underground Storage Tank Excavation Assessment Report, September 11, 2003
- Delta Environmental Consultants, Inc. Subsurface Hydrocarbon Assessment Report, September 17, 2003
- Roux Associated, Inc. Remedial Investigation Report, August 2008

Nature and Extent of Contamination

The Remedial Investigation Report (RIR) describes the investigation activities completed, presents analytical data, and discusses the nature and extent of contamination. The RIR identifies the following Site conditions:

- On-site and off-site soil samples were collected and sampled for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, PCBs, and pesticides. Contaminants found to exceed the Unrestricted Use Soil Cleanup Objectives include petroleum-related VOCs (acetone, benzene, n-butylbenzene, ethylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, toluene, m&p xylenes, and o-xylene), one SVOC (naphthalene), and six metals (chromium, copper, lead, mercury, nickel, and zinc). Figure 2 presents the soil sampling results.
- On-site groundwater samples were collected and analyzed for VOCs, SVOCs, metals, PCBs, and pesticides. Contaminants found to exceed applicable standards include nine VOCs (acetone, benzene, ethylbenzene, MTBE, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, toluene, m & p xylenes, and o-xylene), one SVOC (naphthalene), and eight metals (arsenic, beryllium, chromium, copper, lead, manganese, nickel, and sodium). Figure 3 presents the groundwater sampling results.
- On-site soil vapor samples and air samples were collected and analyzed for VOCs.
 Contaminants found include gasoline related VOCs at concentrations above concentrations in ambient air.

In summary, site soil and groundwater are contaminated with petroleum-related VOCs in excess of the NYCRR Sub-part 375 Unrestricted Use SCOs and ambient water quality standards and guidance values (AWQSGVs). Metals linked with gasoline and/or urban fill have also been detected in soil in excess of the NYCRR Sub-part 375 Unrestricted Use SCOs. Petroleum disposal is likely attributable to a combination of leaks over time associated with one or more of the former underground storage tanks (USTs) that were removed from the Site as part of the 2003 UST removal, leaks over time from underground piping associated with the USTs, or surface spills over time associated with fuel transfer or vehicular maintenance activities.

Description of the Remedy

Based on the results of the Alternatives Analysis and the criteria identified for evaluation of alternatives, the NYSDEC has selected a Track 2 Residential Use remedy for this BCP site. The components of the remedy set forth in the Remedial Action Work Plan and shown on the attached Figure 4 are as follows:

- Excavation of soil/fill in the upper 15 feet of the Site, plus limited excavation of soils exceeding the protection of groundwater Soil Cleanup Objectives (SCOs) to 20 feet in the area surrounding boring SB-106;
- Groundwater remediation during construction activities consisting of excavation dewatering, pretreatment and offsite disposal;

- Site Monitoring of airborne VOCs and particulates in accordance with a NYSDEC approved Community Air Monitoring Plan (CAMP) for all intrusive and soil handling activities;
- Implementation of proper dust and odor suppression techniques for all intrusive and soil handling activities;
- Import of materials to be used for backfill and cover in compliance with (1) the Sub-part 375-6 (d); and (2) all Federal, State and local rules and regulations for handling and transport of material;
- Screening for indications of contamination (by visual means, odor, and monitoring with PID) of all excavated soil during any intrusive Site work;
- Collection and analysis of post-excavation end-point soil samples to evaluate the performance of the remedy with respect to attainment of Track 2 restricted residential SCOs;
- Appropriate offsite disposal of all material removed from the Site in accordance with all Federal, State and local rules and regulations for handling, transport, and disposal;
- Post-remediation groundwater monitoring for a minimum of two years; and
- Post-remediation evaluation of potential soil vapor intrusion concerns.
- If post-excavation soil sampling demonstrates that the Remedial Action Objectives have not been met, the Department may require limited treatment using In-situ Chemical Oxidation (ISCO).
- If post-excavation soil sampling demonstrates that the Remedial Action Objectives have not been met, the Department may require recording of an Environmental Easement, including Institutional Controls, to prevent future exposure to any residual contamination remaining at the Site.
- If post-excavation soil sampling demonstrates that the Remedial Action Objectives have not been met, the Department may require publication of a Site Management Plan for long term management of residual contamination as required by the Environmental Easement, including plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

All responsibilities associated with the Remedial Action, including permitting requirements and pretreatment requirements, will be addressed in accordance with all applicable Federal, State and local rules and regulations.

Declaration

The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action and will allow for the identified use of the site. This remedy utilizes permanent solutions and alternative treatment to the maximum extent practicable, and satisfies the preference for remedies that reduce remove or otherwise treat or contain sources of contamination and protect groundwater.

August 17, 2009

Date

Robert Cozzy, Acting Director

Remedial Bureau B

Division of Environmental Remediation

Figure 1 Site Map

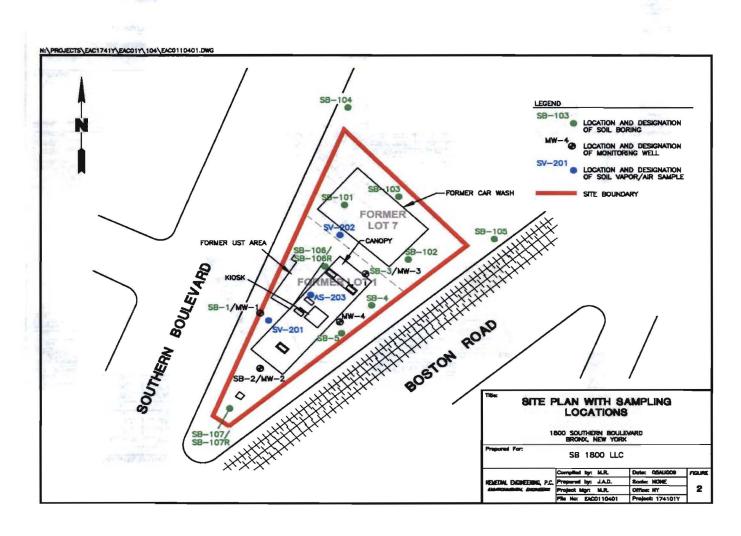
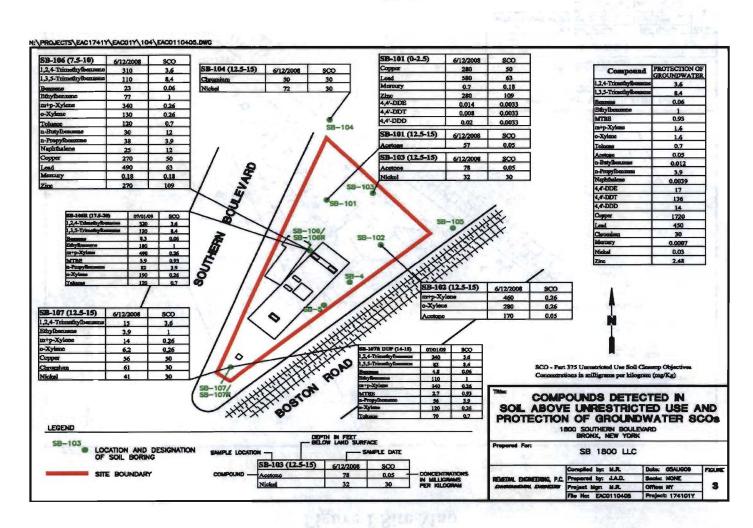


Figure 2 – Soil Sampling Results



N:\PROJECTS\EAC1741Y\EAC01Y\104\EAC0110403.DWG 7/22/2003 AWQSGV EB-184W 6/12/2008 AWQSGV SB-101W 6/12/2008 AWQSGV 9,090 960 1.2.4-Trimethy one 130 2,840 1,300 720 91.7 770 64.4 180 4,930 SB-183W 6/12/2008 AWQ9GV 330 88 45 1,710 MW-3 7/22/2003 7/16/2009 AWQSGV Bername 17.2 3.2 1 MCHE 626 16 10 3.50 16,900 5 15 141 5 5,900 300 140 618 5 310 100 1,050 110,000 20,000 160 7/22/2003 AWQ8GV 1,500 5 442 13.71 23 482 120 26.3 10 SB-195W 6/12/2008 AWQSGV 1.5 ROSTON ROAD 37 25 23.2 J 500 17.8 240,000 20,000 6/12/2008 AWQ6GV 6,900 5 1,900 220 170 08-102W 6/12/2008 AWQSGV Concentrations in micrograms per litter (ug/L)
AWOSGV - TOGS 1,1,1 Ambient Water Quality Star 1,2,4-Trime 1,000 1,200 5 COMPOUNDS DETECTED 10 400 56 25 8,700 300 89,000 20,000 IN GROUNDWATER ABOVE NYSDEC AWQSGVs 1800 SOUTHERN BOULEVARD BRONX, NEW YORK LOCATION AND DESIGNATION OF SOIL BORING Prepared For: SAMPLE LOCATION -SB 1800 LLC MW-3 7/22/2003 AWQSGV 7/16/2009 LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED BY DELTA CONCENTRATIONS Compiled by: M.R. Date: 05AUGUB FIGURE Prepared by: J.A.D. Stoeler NONE REMEDIAL ENGINEERING, P.C. SITE BOUNDARY Project Mgr: MJR. Office NY

File No: EACO110403 Project: 174101Y

Figure 3 – Groundwater Sampling Results

Figure 4 – Selected Remedy

