

EXHIBIT C-2

EPA SAND Summary – Duffy Bros Construction Inc.

SUPPLEMENTAL INFORMATION

Duffy Brothers Construction, Inc., 411 Waverley Oaks Road (CERCLIS Site)



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DUFFY BROS CONSTRUCTION INC

WALTHAM, Massachusetts

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MIDDLESEX County

Street Address: 411 WAVERLY OAKS
RD.

Zip Code: 02154

**Congressional
District(s):** 08

EPA ID #: MAD980916316

Site ID #: 0100844

Site Alias:

Description

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The Duffy Bros. Construction, Inc. (Duffy) property is located at 411 Waverly Oaks Road in Waltham, Middlesex County, Massachusetts, in a mixed industrial, commercial, and residential neighborhood. The 27-acre property is situated at the base of an east-facing hill slope and adjacent to wetlands and an on-site pond. The property is occupied by six buildings, paved parking areas, landscaped land, a pond, and associated wetlands.

The property was first occupied by greenhouses which were heated using coal. The property was reportedly owned and operated by Pierce Brothers Oil Company (Pierce). In the late 1920s, Pierce began using waste oil as an on-site fuel source. The oil was stored on site in aboveground storage tanks (ASTs) and underground storage tanks (USTs). The waste oil came from various sources including local townships; private generators, such as garages and repair shops; and the U.S. Navy. On-site oil washing plants were installed in the 1950s and 1960s and were used to clean the oil by removing solids, water, or other impurities. Oil was also stored in a 60-foot (ft) by 40-ft excavated lagoon located at the southeastern end of the existing office building. Specific practices for storage and handling of the waste oil on site have not been documented in detail. It is apparent, however, that spills, leaks, and other events resulted in the introduction of waste oil into the soil and groundwater beneath the property.

In 1973, the Pierce property was sold to Duffy, at which time all oil storage

operations ceased. Duffy then began redevelopment of the property; the property is currently used for product storage and distribution. Since 1971, an estimated 33 monitoring wells, 61 soil borings, 20 test pits, and five recovery wells have been installed on the property as part of investigations pursuant to the Massachusetts Contingency Plan (MCP). Extensive analytical data consistently indicate the presence of petroleum-related and certain chlorinated volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals in soil, groundwater, sediment, and surface water samples collected on the property.

Portions of the cities of Arlington, Belmont, Boston, Cambridge, Lexington, Medford, Newton, Waltham, Watertown, Weston, Winchester, and Somerville, containing an estimated total population of 308,376 people, are located within 4-radial miles of the property. No public or private groundwater sources of drinking water are present within 4-radial miles of the property. To inhibit oil migration through groundwater, Duffy developed and implemented a mitigation plan in which Separate Phase Hydrocarbons (SPH) collected from five recovery wells and an oil recovery trench pass through a pump and remediation system. The recovered SPH is stored in ASTs located in a remediation building. The remediated SPH is periodically shipped off site to an appropriate disposal facility.

The Massachusetts Department of Environmental Protection (MA DEP) is currently monitoring the continuing remediation effort conducted by GZA GeoEnvironmental, Inc. (GZA) on the property. In accordance with the conditions of the Short Term Measure (STM) approved by MA DEP on 7 April 1994, GZA provides monthly monitoring reports to MA DEP summarizing the status of the STM. To date the groundwater elevation and capture zone analysis indicates that the STM is effectively capturing and recovering groundwater from the majority of the areas impacted by SPH on the southern portion of the property. Treatment system effluent monitoring results reveal that the requirements of the Emergency National Pollution Discharge Effluent System (NPDES) Permit Exclusion are generally met every month.

SAND Summary Last Updated: 10 August 2000

The probable points of entry to the 15-mile downstream surface water pathway are along the adjacent wetland and on-site pond. The wetland and pond drain into an unnamed brook, and ultimately, into Beaver Brook. Beaver Brook flows southwest, eventually joining the Charles River approximately 1 mile south of the Duffy property. On-site catchbasins collect local runoff from the paved parking areas and discharge to the on-site pond and wetlands. An oil/water separator, located on the southern portion of the property, also drains to the on-site pond. Analytical data indicate that the on-site pond and unnamed stream have been impacted by on-site activities. There are no surface water drinking water intake sources along the 15-mile downstream pathway. Several threatened or endangered species and 0.5 miles of wetlands frontage occur along the 15-mile downstream pathway.

An estimated 900 employees work on the Duffy property. The nearest residence to the property is located approximately 500 feet upgradient at 440 Waverly Oaks Road. No school or day-care facilities are located within 200

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Waltham, Massachusetts Site ID: 0100844

feet of an area of observed contamination. It is unknown if on-site workers have been exposed to contaminated soils. Dispersal of contaminants to ambient air is not considered a significant migration route.

A Stage II Environmental Risk Characterization, and the Short Term Measure are currently being prepared by GZA in accordance with MA DEP directives.

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