



INACTIVE HAZARDOUS WASTE DISPOSAL SITE REGISTRY INFORMATION REQUEST

MOBIL OIL CORPORATION
625 ELK STREET

BUFFALO, NY 14210

Facility Id: 915040

ADDRESS CHANGE INFORMATION

Revised street: NO CHANGE

Revised zip code: 14240

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL SITE INFORMATION

CLASSIFICATION CODE: 03
CLASSIFICATION CODE DESCRIPTION:

REGION: 9

SITE CODE: 915040
DEC ID: 56562

Does not present a significant threat to the public health or the environment -
action may be deferred.

NAME OF SITE: Mobil Oil Corporation
STREET ADDRESS: 625 Elk Street
CITY: Buffalo ZIP: 14210

TOWN: Buffalo (c)
COUNTY: Erie

ESTIMATED SIZE: 3 Acres

SITE TYPE: Dump-X Structure- Lagoon- Landfill- Treatment Pond-

INSTITUTIONAL/ENGINEERING CONTROLS:
None reported

CROSS REFERENCES:

IDENTIFIER	SOURCE
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15-S-53	Muni. Waste ID
C915201	BF Site ID
C915201	BCP Site ID
EXXON MOBIL OIL CORP 3140	Alternate Site Name
NYD002107019	RCRA EPA ID No.
NYD002107019	EPA Site ID

SITE OWNER/OPERATOR/REPOSITORY INFORMATION:
CURRENT OWNER(S):

NAME: MOBIL OIL CORPORATION
ADDRESS: 635 ELK ST.
BUFFALO, NY 14204

Owner Type: Corporate or Commercial

NAME: Mobil Oil Corporation
ADDRESS: 635 Elk Street
Buffalo, NY 14204

OWNER(S) DURING DISPOSAL:

NAME: MOBIL OIL CORPORATION
ADDRESS:

OPERATOR(S) DURING DISPOSAL:

NAME: MOBIL OIL CORPORATION
ADDRESS: 635 ELK ST.
BUFFALO, NY 14204

Operator Type: Corporate or Commercial

NAME: Mobil Oil Corporation
ADDRESS: 635 Elk Street
Buffalo, NY 14204

HAZARDOUS WASTE DISPOSAL PERIOD: from 1951 to 1976

SITE DESCRIPTION:

The remediation of this site is currently being addressed under the Brownfield Cleanup Program(BCP)as Site #C915201.

Location:

The brownfield site is 90.4 acres in size and located on Elk Street in the City of Buffalo, Erie County. The site is bisected by Babcock Street running north-south and Prenatt Street, which is a paper street, running east-west. The site is bordered on the north by a mixture of commercial and residential properties, on the east and west by commercial businesses and on the south by the Buffalo River. Site Features: The site is relatively flat with multiple large above ground petroleum storage tanks. Several occupied and vacant buildings exist on-site. An inactive northeasterly-trending railroad right of way separates the eastern tank yard area (OU-4) from the rest of the ExxonMobil former Buffalo Terminal site.

Current Zoning/Use: The majority of the site is currently zoned industrial. It is located in an urban area, generally surrounded by a mixture of industrial and commercial property.

There are a few isolated residential parcels located immediately to the north. A large portion of the site is vacant. The largest active facility on-site is a petroleum distribution terminal. Several smaller commercial businesses operate on the western end of the site. Historical Use(s): **Since the 1880s, the site has been used for petroleum refining and storage.** Refining operations terminated in the 1980s. **Former refinery, lube plant and terminal activities have impacted this site.**

An approximate 3 acre area landfill (now known as Operable Unit #4) was used for the disposal of wastes such as demolition debris, tank sediments, sewer sediments, soils containing asphalt and general refuse. Analysis of soil samples taken in 1982 indicated the presence of elevated levels of lead and various organic compounds. The Industrial Waste Survey of 1979 indicates that hazardous waste sludge containing tetraethyl-lead was disposed at this site. Interim remedial systems were operated to

contain and recover spilled oil in soils and groundwater starting in 1971. In 2004 ExxonMobil began removing buried abandoned pipes from the northern portion of the terminal.

In 2006 the site entered the Brownfield Cleanup Program to conduct a comprehensive remediation of the entire site. Operable Units: The site has been segregated into (5) operable units (OU) based on past use and nature of contamination. An operable unit represents a portion of a remedial program for a site that for technical or administrative reasons can be addressed separately to investigate, eliminate or mitigate a release, threat of release or exposure pathway resulting from the site contamination. OU-1 encompasses several former residential parcels north of Elk Street. Remediation of OU-1 was completed in 2007. The remedy included excavation and off-site disposal of 5,615 tons of soil contaminated with metals and SVOCs. OU-2 is located south of Elk street and formerly housed refining and petroleum storage facilities. Remediation completed in OU-2 includes the removal of approximately 22 miles of below ground process piping. OU-2 has been investigated to determine the nature and extent of soil/fill which is grossly contaminated with petroleum products and/or is hazardous based on lead levels. Bench scale and field studies have been completed to assess remedial options to address grossly contaminated soil and hazardous lead soil.

OU-3 is located along the northern shore of the Buffalo River and formerly housed petroleum refining and storage facilities (active petroleum storage presently occurs in this location). A large subsurface plume of free product will be the focus of remedial efforts in OU-3. Currently, ground water and product pumping systems are utilized to capture free product and prevent the migration of free product to the river.

OU-4 is located on the north shore of the Buffalo River. This area was filled with municipal waste to realign the Buffalo River in the early 1900s. More recently, ExxonMobil utilized this area for the disposal of tank bottom sludge and for petroleum storage.

Remediation completed in OU-4 includes the operation of a Chem-Ox system (injection of hydrogen peroxide and ozone into the subsurface) to oxidize and mobilize (for extraction) a free product plume. The Chem-Ox injections were terminated in the summer of 2009. Additional remediation is necessary. The Decision Document outlining the final remedy was issued in March 2011. Implementation of the selected remedy began in the spring of 2013 and is expected to be completed in fall 2014. OU-5 includes the river sediment along the north shore of the Buffalo river adjacent to the main site. Limited information is currently available and additional investigation will be necessary.

Site Geology and Hydrogeology: Three unconsolidated deposits exist throughout the majority of the site including a fill layer (cinders, ash, slag, sand, brick, concrete, etc), underlain by an alluvial deposit layer consisting of silt, sands, gravel and clay and an alluvial deposit layer consisting of glacio-Lacustrine clay which acts as a confining layer. Groundwater is approximately 3 to 20+ feet below ground surface and generally flows southwest toward the Buffalo River.

CONFIRMED HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY
TETRAETHYL LEAD AND LUBE SLUDGES	UNKNOWN
SPENT CATALYSTS	UNKNOWN

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Nature and Extent of Contamination:

Prior to Remediation: Former refinery, lube plant and terminal activities may have impacted this site. Contaminants which are known or suspected to affect soil, groundwater, surface water, sediment or soil gas are petroleum, other VOC's, SVOC's and or metals. The soil of this site is contaminated with lead and petroleum. Oily seeps are visible along the Buffalo River. Adsorbents are placed in the seeps areas. Post-Remediation: Remedial design and remedial actions are being conducted under the

State's Brownfield Cleanup Program (refer to C915201). Remediation of OU-1 (former residential property) was completed in 2007. Pipeline removal on OU-2 (plant property) was completed in 2007. A groundwater pumping system continues to operate to prevent migration of oil to the river.

ASSESSMENT OF HEALTH PROBLEMS:

Direct contact with contaminated on-site soils is unlikely because site access is restricted by a locked fence. Exposures through drinking water ingestion are not expected because the area is served by public water.

PROJECT COMPLETIONS:

Operable Unit 01 - REMEDIAL PROGRAM

PROJECT	DESCRIPTION	END DATE	STATUS
Site Characterization		01/01/1986	Actual

The New York State Department of Environmental Conservation has not publicly updated the following fields since 2003:

ANALYTICAL DATA AVAILABLE FOR:	Air-	Surface Water-	Groundwater-X	Soil-X	Sediment-
APPLICABLE STANDARDS EXCEEDED IN:	Groundwater-	Drinking Water-	Surface Water-	Air-	

GEOTECHNICAL INFORMATION:

SOIL/ROCK TYPE:	Organic-rich silt and sand over sand and clay.
GROUNDWATER DEPTH:	Range: 1 to 5 feet.

LEGAL ACTION:	Type: Consent Order	State-X	Federal-
STATUS:	Negotiation in Progress-	Order Signed-X	
REMEDIAL ACTION:	Proposed-	Under Design-	In Progress-
NATURE OF ACTION:			Completed-