



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Project Summary Report



Site Code	V00404	Site Name	Valley Stream S04 (LIRR)	
Classification	A	Address	Rockaway Avenue & Sunrise Highway	
Region	1	City	Valley Stream	Zip 11580
Latitude	40.66	Town	Hempstead	
Longitude	-73.70	County	Nassau	Project Manager Thrutlan
Disposal Area	Structure			Estimated Size 0.1000

Site Description

Location: The Valley Stream site is located in a mixed commercial, residential, and industrial portion of Valley Stream, Nassau County, NY. It is located on Sunrise Highway and the elevated railroad tracks are north and west of the property.

Site Features: The main site features are the two-story rectifier building, transformer yard, and parking areas surrounding the property. There are commercial buildings on the east side of the substation. Only the transformer yard is fenced.

Current Zoning/Use(s): The 0.1 acre site is currently zoned industrial and was formerly used by the LIRR as a rectifying station to supply power to the railroad.

Past Use of the Site: Prior to 1979, mercury rectifiers were used at this substation to power the Long Island Rail Road (LIRR) locomotive and electric passenger car fleet. Mercury contamination remains although the rectifiers were removed and replaced with solid state equipment. It is believed that work practices surrounding the operation and maintenance of the rectifiers caused spills and other contaminating events. In 2000, the LIRR conducted initial site assessments and submitted reports on findings, as well as conducted initial remedial measures, including but not limited to, excavation work consisting of the removal of six inches to a foot of soil and replacement with poly sheeting and crushed stone around the entrance. In 2004, the LIRR entered into the VCP program.

Site Geology and Hydrogeology: The shallow geology of the site consists of sands, with some silt and gravel. Depth to groundwater is roughly 10 feet below ground surface and groundwater flows approximately in a southerly direction.

Contaminants of Concern (Including Materials Disposed)	Quantity Disposed
MERCURY	UNKNOWN
ARSENIC	UNKNOWN

Analytical Data Available for : Groundwater, Soil

Applicable Standards Exceeded for: Soil

Site Environmental Assessment

Nature and Extent of Contamination: The contaminants of concern are mercury and arsenic. Investigations have indicated contamination in the surface and subsurface soils. Contaminated soil is primarily within rectifier pits and other subsurface features. Mercury and arsenic surface contamination is

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most commonly found adjacent to the rectifier buildings. Exceedences of standards, criteria, and guidance, for this substation, include mercury and arsenic. Groundwater standards are not exceeded for contaminants attributable to this site.

Soil: Mercury contamination that exceeds the industrial SCO of 5.7 ppm inside the fenced area ranges from 6.0 - 25.9 ppm. Mercury contamination that exceeds the residential SCO of 0.81 ppm outside the fenced area ranges from 0.9 – 198 ppm. Arsenic contamination that exceeds the industrial and residential SCO of 16 ppm both inside the fenced area and outside the fenced area ranges from 18.8 - 71.8 ppm.

Site Health Assessment

Since the site is fenced and covered with buildings and pavement, people will not come into contact with site-related soil contamination unless they enter the site and/or dig below the ground surface. Persons who dig below the ground surface off-site may come into contact with contaminants in subsurface soil.

Project Information

Operable Unit 01 Remedial Program

	Agency	Bureau	Office	Manager	Funding Source
Site Characterization					
Remedial Investigation	DEC	BURA	REM-A	TLRUTLAN	Volunteer
Remedial Design	DEC	BURA	REM-A	TLRUTLAN	Volunteer
Remedial Action	DEC	BURA	REM-A	TLRUTLAN	Volunteer

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	Start Date	Stat.	End Date	Stat.	Rev. Start Date	Stat.	Rev. End Date	Stat.
Site Characterization								
Remedial Investigation	07/21/2005	ACT	02/28/2015	PLN		XXX		XXX
Remedial Design	02/28/2015	PLN	02/28/2015	PLN		XXX		XXX
Remedial Action	04/30/2015	PLN	04/30/2016	PLN		XXX		XXX

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