

**Former Federalsburg Substation Property  
Academy Avenue  
Federalsburg, Maryland  
(Voluntary Cleanup Program)**

***Site Description***

This 1.18-acre property is located in the town of Federalsburg in Caroline County in a residential neighborhood. Currently vacant, the site was formerly utilized as an electric power substation. When the substation was decommissioned, the buildings were demolished but concrete foundations supporting the former equipment were left in place. The majority of the site is covered with grass, shrubs and trees. The site and vicinity receive public water and sanitary sewer services.

Topographically, the site is generally flat and surface runoff flows to the southeast. The nearest surface water body to the property is Marshy Hope Creek, a tributary to the Nanicoke River located approximately 3,500 feet east of the property. Groundwater occurs under shallow unconfined conditions and is anticipated to flow to the east toward Marshy Hope Creek. Unconsolidated sediments of the Quaternary-age lowland deposits underlie the site. Groundwater is encountered in the shallow unconfined aquifer approximately 4 feet below the property.

***Site History***

The property is comprised of three parcels. Parcel 1 was purchased by Delmarva Power & Light in 1919. Parcels 2 and 3 were acquired by Delmava Power & Light in 1966. A chain-link fence restricts access to the northern portion of the property; however, access to the southern portion of the property is unrestricted.

Previous environmental investigations (1996, 1997,1999) identified polychlorinated biphenyls (PCBs) and petroleum hydrocarbons in the soils. In 1999, approximately 14 tons of PCB contaminated soil were removed from the area of concern. Subsequent groundwater sampling conducted in 2002 detected MTBE and diesel range Petroleum Hydrocarbons (TPH-DRO) in the shallow unconfined aquifer.

***Voluntary Cleanup Program (VCP) Status***

On July 10, 2003, Delmarva Power & Light Company submitted a VCP application seeking a Certificate of Completion (COC) as a responsible person. On August 13, 2003, the Department requested supplemental sampling to complete the application package. The Department is currently awaiting results from the supplemental sampling completed in September 2003.

***Site Contact***

James W. Metz	Maryland Department of the Environment Voluntary Cleanup/Brownfields Division	(410) 537-3493
---------------	--	----------------

Last updated: October 2003