8811-22-03

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SEMS DocID 2334612

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68-01-7346

Mr. Ben Mykijewycz
U.S. Environmental Protection Agency
841 Chestnut Building
Ninth and Chestnut Streets
Philadelphia, Pennsylvania 19107

Subject: Final Report
TDD No. F3-8811-22
EPA No. PA-788
Gulf Oil Darby Creek Tank Farm
Darby Township, Delaware County, Pennsylvania

Dear Mr. Mykijewycz:

Submitted herewith is the final Non-Sampling Site Reconnaissance Summary report for the subject site. The contents of the report are based on an evaluation of information contained in the site files provided, on the results of a review of regional and local hydrogeologic literature, and on data collected during a field evaluation performed in December 1989. Based on this review, the following is offered for EPA's consideration:

- It is recommended that no further action under CERCLA be pursued for the site. A rough Hazard Ranking System (HRS) PREscore of 7.57 and a PROscore of 7.72 were obtained for the site. These scores are based on available and projected information and are reflective of the lack of groundwater and surface water targets and the lack of an observed release to surface water. The HRS PROscore was rated with an observed release to groundwater. Six inches of oil were found floating on top of the water in one of the monitoring wells. No sample data exist for this monitoring well, however.

A proposed sampling plan has been included in the event that a site inspection is deemed necessary.

Proposed Sampling Plan

The proposed sampling locations include the following:

- An aqueous and sediment sample should be obtained from an upstream and downstream location on Darby Creek, which is located southeast of the site and flows southwestwardly.
- An aqueous sample should be obtained from 9 of the 11 monitoring wells on site.
- A subsurface soil sample should be obtained from the past disposal area of acid-contaminated catalyst, located on the western boundary of the site.
- An aqueous sample should be obtained at the outfall into Darby Creek, from each of the storm runoff ponds.

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- A background soil sample should be obtained from an area north of the northern boundary of the site.

The Gulf Oil Darby Creek Tank Farm site was formerly a gravel quarry. The low areas of the quarry were filled so that the Chevron Corporation could construct a tank farm for the storage of crude oil. Three distinct areas of the quarry were filled in with process waste materials from the Chevron Refinery in Philadelphia. The waste materials were deposited on site from 1949 until 1979. Acid-contaminated catalysts were disposed in one area. A second area was used for the disposal of hydrofluoric-acid-contaminated trash. Oily dirt and various refinery catalysts were buried in the third area. An estimated 140 cubic yards of soil material were removed from the area where oily sludges were buried and replaced with fresh soil. In this area, a monitoring well (D-71) was observed with six inches of oil floating on top of the groundwater. The facility has a hazardous waste generator number (PAD980555254), although hazardous waste is not currently generated.

On March 5, 1986, Dames and Moore, Incorporated, environmental consultants for Chevron Corporation sampled two disposal areas, the acid-contaminated catalyst area and the hydrofluoric-acid-contaminated trash area, for lead. The analysis revealed the presence of elevated levels of lead in subsurface soils.

The site is fenced. Residents east and southeast of the site are supplied water by the Philadelphia Water Company. The remaining residents in the study area are supplied water by the Philadelphia Suburban Water Company.

If you have any further questions, please contact me.

Respectfully submitted,	Reviewed by,	Approved by,
Not responsive due to revised scope		
Geologist	Agricultural Engineer	Assistant Manager

FAO/skt

Attachments