PETROLEUM, OIL, AND LUBRICANTS (POL) YARD

SS-13

Joint Base Andrews April 2022

BACKGROUND

The Petroleum, Oil, and Lubricants (POL) Yard is located on the east side of Joint Base Andrews (JBA) and has been in operation since 1961. Several above-ground storage tanks (ASTs) are located at this site and are currently used to store diesel fuel, jet fuels, and unleaded gasoline. In 1988, fuel was observed during trenching activities, and one of the fuel delivery lines was found to be leaking. All associated tanks and lines were removed.

A remedial investigation was initiated, and a vacuum enhanced groundwater treatment system was designed and constructed in 1996. This system operated until 1999 when the Maryland Department of the Environment (MDE) approved shutdown of the system due to no additional free phase petroleum product being removed or detected. Groundwater monitoring verified that a reduction in petroleum constituents in the groundwater had occurred. The MDE issued a case closure for the site in October 2001. In 2005, a No Further Remedial Action Planned (NFRAP) document was signed after being open for public review. Annual groundwater sampling continued until February 2010 in order to document the declining trends of petroleum constituents in the groundwater.

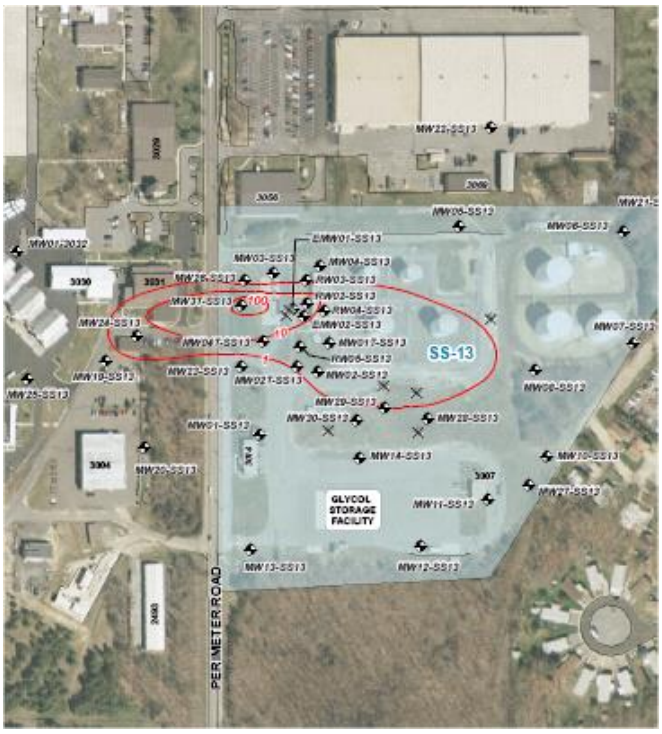

Figure: Site SS-13 and Former Petroleum Plume

CHALLENGES

This site continues to operate as an active fuel storage and distribution facility. The potential for future spills exists.

PERFORMANCE-BASED APPROACH

Annual groundwater sampling continued until 2010 in order to document the declining trends of petroleum constituents in the groundwater. The final round of sampling occurred in February 2010. Ten perimeter wells were sampled and analyzed for petroleum constituents. All constituents were below the method detection limit (MDL) and/or the reporting limit (RL). Seventeen groundwater monitoring wells were abandoned in July 2010.

The ten groundwater monitoring wells that were sampled in February 2010 were left in-place, and can be used for future monitoring rounds, if warranted. The site is considered closed and the on-site remediation system was removed in 2013.

RISK DRIVERS

Contaminants: Petroleum constituents

Impacted Media: Groundwater

Exposure Pathways Completed: Construction workers during excavation activities

Drainage: Piscataway Creek

Current Land Use/Surface Cover: Industrial

Reasonably Anticipated Land Use: Industrial

Relative Risk: NR