

SPILL AT BLDG 1950 (ENGINE TEST CELL) SS-21

Joint Base Andrews

February 2013

BACKGROUND

Former Buildings 1950 and 1951 are the location of the Engine Test Cell Site (SS-21). A plume of petroleum-contaminated groundwater formed as a result of faulty piping from an underground storage tank (UST) and an oil water separator. Free-phase petroleum was not encountered in the on-site monitoring wells during the investigation. Buildings 1950 and 1951 were demolished in December 2000. During demolition activities, the UST, fuel lines, oil-water separator, and 250 cubic yards of petroleum-impacted soils were removed from the site. Clean backfill was placed in the excavation and planted with grass seed.

RISK DRIVERS

Contaminants: Petroleum hydrocarbons

Media: Surface and subsurface soil

Exposure Pathways Completed: Construction worker exposure during excavation

Drainage: Henson Creek West

Current Land Use/Surface Cover: Industrial

Reasonably Anticipated Land Use: Industrial

Relative Risk: NR

CHALLENGES

The investigation and cleanup has been completed and the site is closed.

PERFORMANCE BASED APPROACH

Groundwater monitoring confirmed a declining trend of dissolved-phase petroleum concentrations. The Maryland Department of the Environment (MDE) Oil Control



Figure 1: SS-21 Site Map with BTEX Plume

Program (OCP) closed the case and directed Andrews AFB to abandon the wells. The site has been cleared for commercial/industrial land use.

The past schedule for this site was:

| | |
|-------------------------------------|-------------------|
| Remedial Investigation (RI) | 5/2003 (Complete) |
| Feasibility Study (FS) | 5/2003 (Complete) |
| Proposed Plan (PP) | 7/2006 (Complete) |
| Record of Decision (ROD) | 7/2006 (Complete) |
| Remedial Design (RD) | N/A |
| Remedial Action-Construction (RA-C) | N/A |
| Remedy in Place (RIP) | 4/2004 (Complete) |
| Remedial Action-Operation (RA-O) | N/A |
| Response Complete (RC) | 7/2006 (Complete) |
| Site Closure (SC) | 7/2006 (Complete) |