

EXECUTIVE SUMMARY

The Phase I Site Inspection (SI) for Operable Unit 9 (OU 9) North Area field effort was conducted to identify potential sources and past releases of hazardous constituents to the environment. The OU 9 North Area consists of approximately 4,400 acres and occupies about two-thirds of Hill Air Force Base (AFB). OU 9 North Area includes the former Ogden Ordnance Depot; the former Ogden Arsenal; the former Air Force Plant 77; portions of the original Hill Field; the Missile Assembly, Maintenance and Storage area; the current administration complex in the west-central portion of the Base; the main runway and flightline area north of the 388th Fighter Wing; and the area between the eastern Base boundary and the main runway.

The Phase I SI included a cone penetrometer/Hydropunch sampling program for subsurface lithologies and ground water sampling, a direct push soil boring program and surface water/sediment/surface soil sampling program. The inspection focused on the facilities and areas that were most likely to have been associated with industrial activity and on chemical handling systems that have the greatest potential for repeated systematic releases. The results of the Phase I SI field effort indicate that there are four primary areas of concern at the OU 9 North Area. These areas will be carried forward into a more focuses Phase II field effort, while the remaining facilities of concern will be recommended for no further investigation. The following is a brief summary of the areas that will be investigated during Phase II.

Ground water samples collected along the western Base boundary in Zones 11 and 12 had trichloroethene (TCE) concentrations ranging from less than 1.0 $\mu\text{g/l}$ to 42 $\mu\text{g/l}$, which is above the current maximum contaminant level (MCL) of 5 $\mu\text{g/l}$. The actual source of the contamination was not identified in Phase I. However, additional samples will be collected as part of the Phase II sampling program to attempt to identify the source area.

Ground water samples collected in Zone 16 near Building 1607 had TCE concentrations slightly above the current MCL. This contamination is most likely part of the OU 5 ground water plume that is currently in the remediation phase. Additional samples will be collected in this zone during Phase II to determine if the plumes are connected.

Soil samples collected in Zone 22 near the loading docks of Building 2214 had lead concentrations ranging from 355 mg/kg to 481 mg/kg, which is above the residential risk based action level (RBAL) of 400 mg/kg. This area will be resampled during the Phase II field effort to determine if the lead concentrations in samples collected during Phase I are representative of the environment.

Soil Samples collected from transformers associated with Buildings 1503, 1142, and 2405 had polychlorinated biphenyl concentrations above the residential RBAL. Additional samples will be collected from these sites to confirm the original sample results and better delineate the extent of the contamination.