

Figure 4: Atlas D Missile Site 4 Transition Area Map showing Monitoring Well Locations and TCE Plume

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Figure 4: Transition Area aerial photography map showing monitoring well locations and the relative locations of Area A at the west end and part of Area B at the east edge. The groundwater TCE plume that originates in the White River Formation (WRF) mudstones underlying the LSB area in Area A extends eastward within the coarser Ogallala Formation alluvial fan deposits that underlie the Transition Area. The saturated thickness of the Ogallala aquifer in the Transition Area increases to the east from less than 10 feet near Area A to approximately 75 feet in the eastern half, although at some eastern locations it is much thinner due to elevation variations of the upper surface of the underlying WRF. The Front Range of the Rocky Mountains extends westward from the Atlas Site 4 location in Area A. TCE concentrations in groundwater samples collected from the monitoring wells are up to 1,400 micrograms/liter (parts per billion) in the west part of the Transition Area; TCE has not been detected above 100 ppb in samples collected from wells located at the east end of the Transition Area.

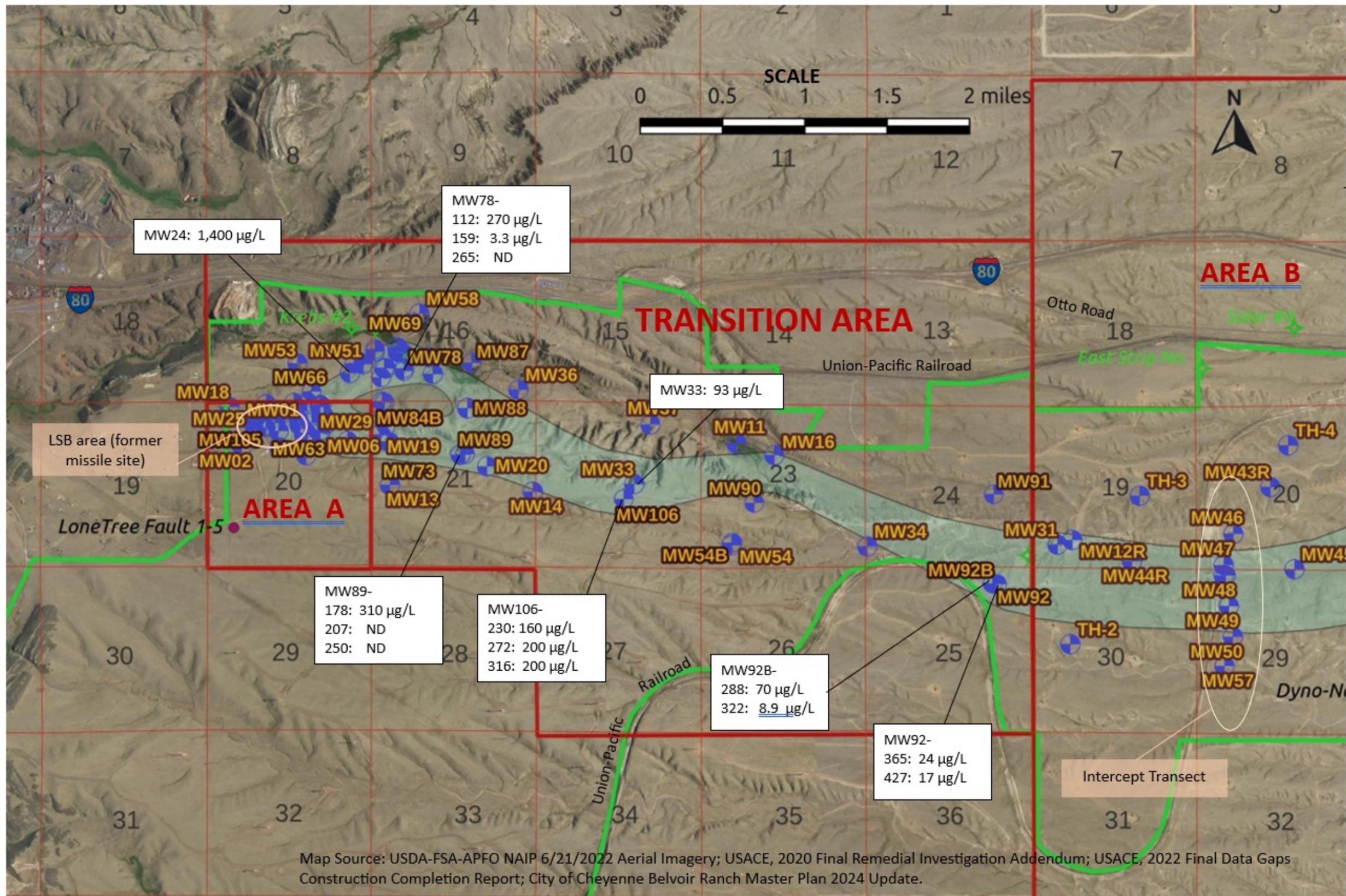
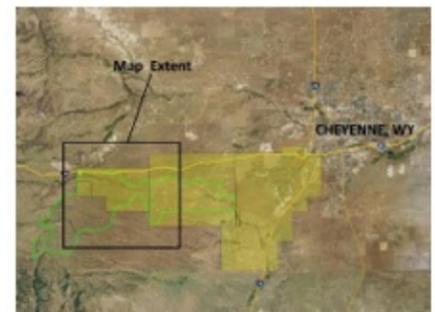


Figure 4
Transition Area Well Locations and TCE Plume

Former Atlas D Missile Site 4
F.E. Warren Air Force Base
Cheyenne, Wyoming

Legend

- Monitoring Well Location
- Nested well location ID w/ sample depths in feet and Fall 2023 TCE result
- Single well location ID w/ Fall 2023 TCE result
- Stock Well Location
- Exploration Test Hole Location
- Site Area Borders
- Belvoir Ranch Boundary
- Overlay shading of TCE plume footprint (> 5 ug/L)



The groundwater TCE plume that originates in the White River Formation (WRF) mudstones underlying the LSB area in Area A extends eastward within the coarser Ogallala Formation alluvial fan deposits that underlie the Transition Area. The saturated thickness of the Ogallala aquifer in the Transition Area increases to the east from less than 10 feet near Area A to approximately 75 feet in the eastern half, although at some eastern locations it is much thinner due to elevation variations of the upper surface of the underlying WRF. The Front Range of the Rocky Mountains extends westward from the Atlas Site 4 location in Area A.

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