



US Army Corps
of Engineers
Omaha District

Project Execution Update

Former Lowry AFB Titan I Missile Site 1, Complexes 1A, 1B & 1C Arapahoe County, Colorado

May 18, 2005

Presented by:

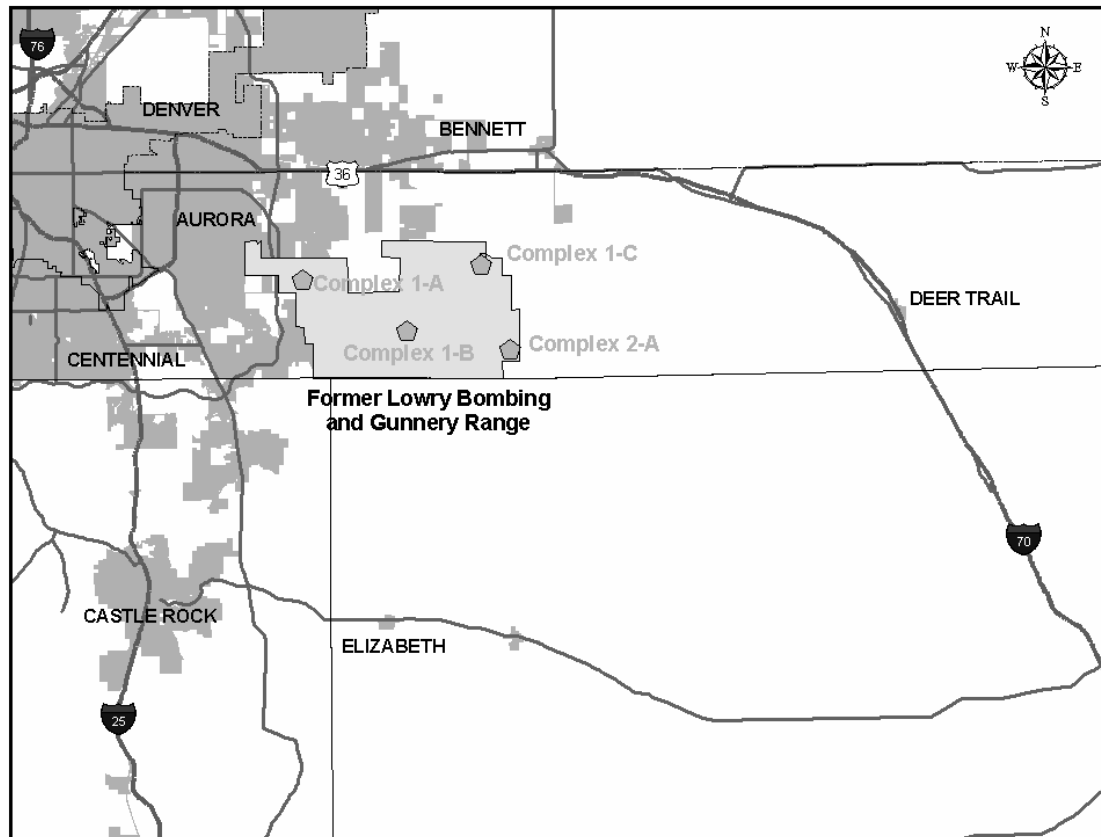
**U.S. Army Corps of Engineers
Colorado Department of Public Health & Environment
U.S. Environmental Protection Agency Region 8**





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Location of the Titan I Complexes at the former Lowry Bombing Range





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The Removal Action effort was discussed and a fact sheet presented to this forum on May 19, 2004. Following the presentation, a public notice for public comments was advertised in the local newspaper. No comments were received and the Corps' contractor proceeded with the field effort.





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The Removal Action (RA) was performed between July 12 - 20, 2004. PCB contaminated material was removed and disposed of at proper off-site disposal facilities. Results of the RA are documented in the PCB Time Critical Removal Action Final Report (dated November 2004).

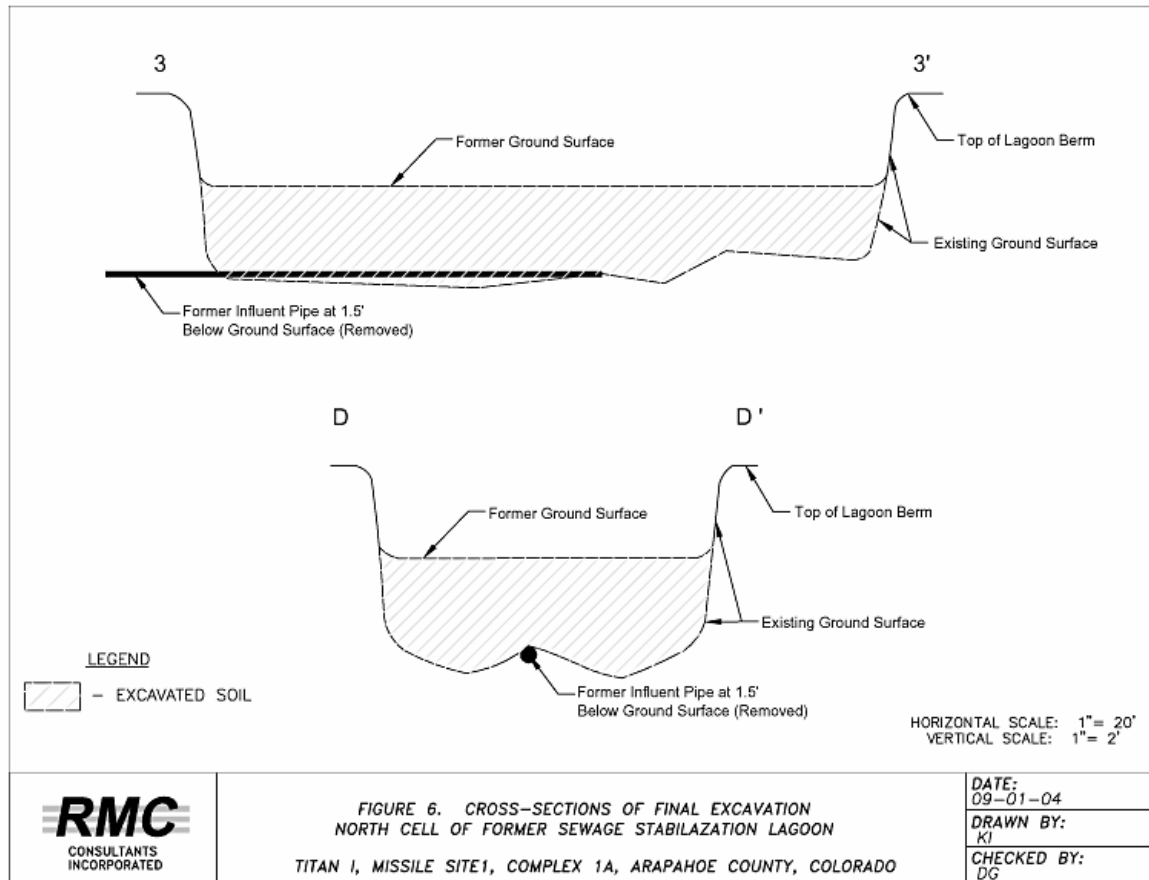


Former Lowry AFB Titan I Missile Site 1, Complex 1A



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Cross-sections of Final Excavation





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Ventilation shafts were secured to
ensure no human access is possible.





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Both regulators, CDPHE and EPA Region 8, agreed that the former Lowry AFB S-1, 1A does not require any further environmental investigation or remedial action at this time. It is concluded that a “No Further Response Action Planned” determination is warranted for this project.





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A public notice was published on March 2, 2005, in the *Aurora Sentinel* newspaper. This public notice notified the citizens of Aurora that no hazardous materials exist on the property at this time, and the site is available for unlimited use and unrestricted exposure.





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Copies of the Time Critical Removal Action
Final Report are available at the

Aurora Public Library
14949 E. Alameda Drive
Aurora, Colorado, 80012-1563
(303-739-6600)





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Summary of Accomplishments

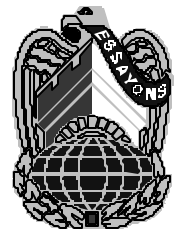
Site investigation field work conducted in 1995; final report completed in 1996

Remedial investigation followed site investigation; field work completed in March 1998. Draft report submitted in September 1998

Remedial investigation draft-final report submitted in November 1999. Data gaps identified by CDPHE & EPA

Developed work plan for the additional field effort

Performed data gap field effort in 2004





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2004 Field Effort (Data Gap)

- **S**urface and subsurface soil samples from four borings
- **I**nstallation of four additional on-site and one off-site background monitoring wells
- **S**ampled the monitoring wells
- **S**ampled the underground complex water
- **S**ampled the water at the off-site cistern



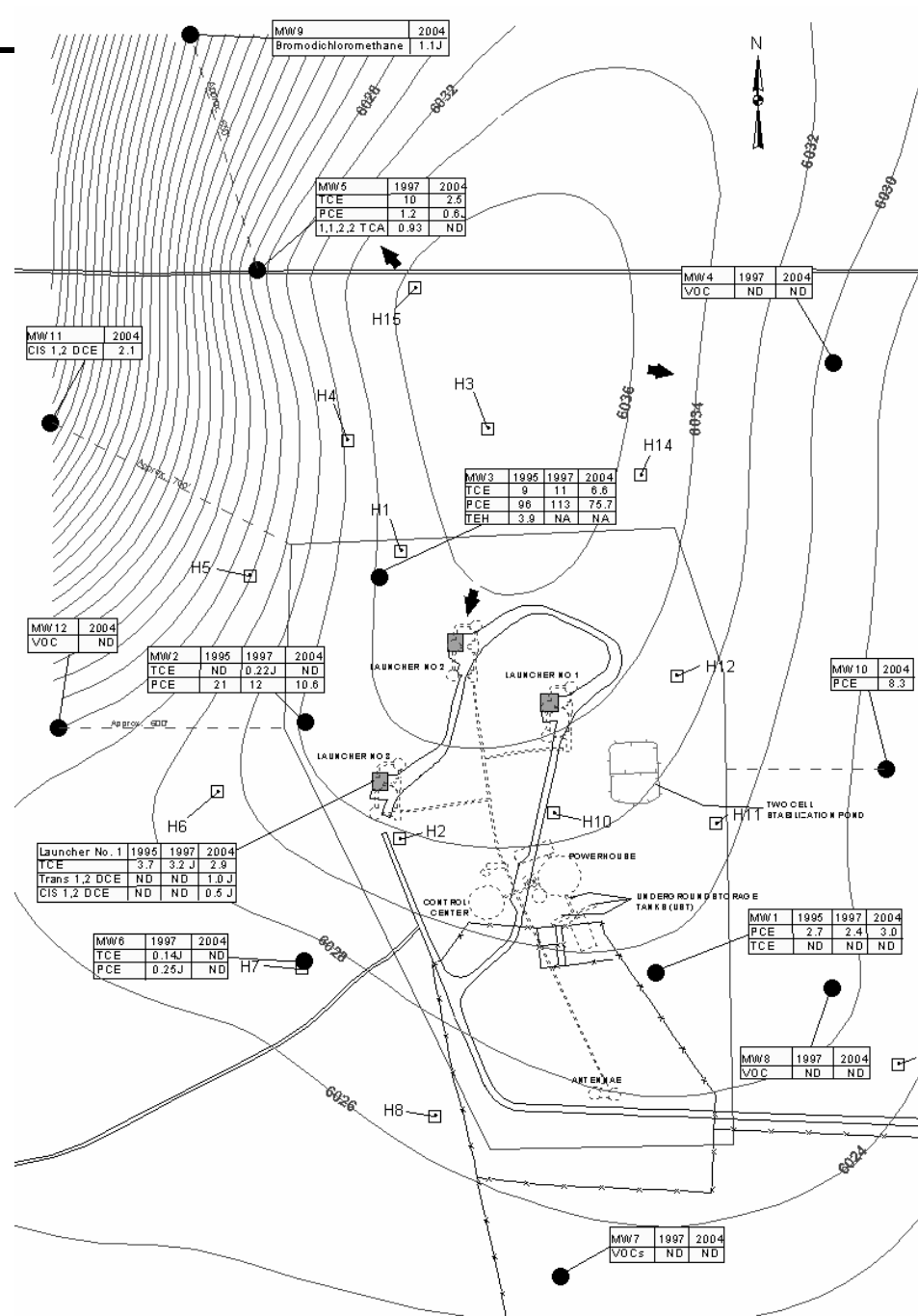


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*Former Lowry
AFB Titan I
Missile Site 1
Complex 1B*

Groundwater and
Launcher No. 1

Detections ($\mu\text{g/L}$) TCE,
PCE, TEH, breakdowns
products, and VOCs
detections above MCLs





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Report Effort

The draft data gap report was submitted on May 12, 2005 to CDPHE and EPA for review and comments.

Additional Field Effort (June 2005)

One additional monitoring well required to fully delineate the VOC groundwater plume along the east side of the site.

Measurement of water levels from the thirteen existing wells (including the new well); each of the three silos, and plugging the three core holes in the tops of the three silos.





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Future Effort

Finalize Remedial Investigation Report based on CDPHE and EPA review comments of the data gap report addendum.

Soil Removal from the north and south lagoons and the on-site drainage from the lagoons is also scheduled.





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Summary of Accomplishments

July 1989 - Environmental Audit

September 1997 - Historical Records Search Report

March 1999 - Deep Monitoring Well Installation

June 1999 - Drums and Underground Storage Tanks Sampling Investigation

December 1999 - Site Inspection Report completed

June 2000 - Remedial investigation field work completed.





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Summary of Accomplishments (Cont.)

June 2000 - Draft-Final Baseline Risk Assessment Plan submitted

November 2001 - Analytical data results submitted to CDPHE

March 2003 - Draft Site Characterization Report submitted

March 2005 - Draft Expanded Site Inspection Report (60% RI) submitted





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Future Efforts

Address March 2005 review comments submitted by CDPHE and EPA on the Draft ESI report

Prepare letter work plan for the installation of additional monitoring wells (3 to 5 wells are anticipated to be installed).

Resample all existing monitoring wells for VOCs, dissolved metals, and pH.

Collect soil samples for PAH

Remove soil at the Chemical Waste and Incinerator Areas.

