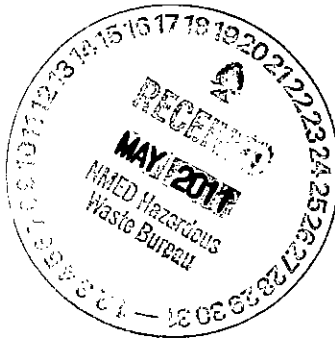




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Los Alamos Site Office, MS A316
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Date: **MAY 20 2011**
Refer To: EP2011-0189

John Kieling, Acting Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Extension Request for the Lower Mortandad/Cedro Canyons Aggregate Area Investigation Report

Dear Mr. Kieling:

Los Alamos National Security (LANS), LLC, and the U.S. Department of Energy (DOE) request an extension to the June 30, 2011, deadline to submit the investigation report for Lower Mortandad/Cedro Canyons Aggregate Area. This extension is being requested so additional sampling and soil removal can be performed to complete the determination of extent of contamination at three sites within this aggregate area.

The Lower Mortandad/Cedro Canyon Aggregate Area includes four solid waste management units (SWMUs) within Technical Area 05. Fieldwork activities were completed in February 2011 in accordance with the approved investigation work plan. Analytical results were received in April 2011, and each of the sites was evaluated for nature and extent. At one site, nature and extent were defined, and at the three other sites additional sampling is required to determine the extent of contamination at one or more locations within each site.

At SWMU 05-004, six samples must be collected at five existing locations, extending the depth at each location to determine the vertical extent of three inorganic chemicals, one organic chemical, and one radionuclide. At SWMU 05-005(b), eight samples must be collected at two existing locations and at one new location to determine the vertical extent of two inorganic chemicals and the lateral extent of two inorganic chemicals and one organic chemical. At SWMU 05-006(c), two samples must be collected at two locations, extending the depth at each location to determine the vertical extent of one organic chemical and one inorganic chemical. In addition, one existing location at SWMU 05-006(c) is proposed for excavation to remove lead-contaminated soil that exceeds the soil screening limit, after which confirmation samples will be collected. The proposed sampling tables and site maps are included in Attachment 1 to this request.

Rather than submit the investigation report as currently scheduled with a recommendation to submit a Phase II investigation work plan, LANS and DOE propose conducting additional sampling at this time with the intent of avoiding a Phase II investigation work plan and report. The additional fieldwork to collect the samples at the 10 locations and remove the lead-contaminated soil and collect confirmation samples will take approximately 2 weeks to complete. The analytical results will be received approximately 45 days after the last sample is collected. This work will delay the submittal date of the investigation report by approximately 2.5 months. However, this additional sampling will improve the likelihood of completing the nature and extent evaluation at the three sites and will expedite the completion of the investigation and remediation activities at this aggregate area. Therefore, LANS and DOE are requesting an extension to September 23, 2011, to submit the investigation report.

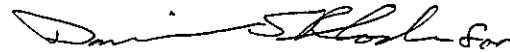
If you have any questions, please contact Kent Rich at (505) 665-4272 (krich@lanl.gov) or Cheryl Rodriguez at (505) 665-5330 (crodriguez2@doeal.gov).

Sincerely,

Sincerely,



Michael J. Graham, Associate Director
 Environmental Programs
 Los Alamos National Laboratory



George J. Rael, Manager
 Environmental Projects Office
 Los Alamos Site Office

MG/GR/DM/JM:sm

Attachment: Lower Mortandad/Cedro Canyons Aggregate Area Proposed Sampling

- Cy: Neil Weber, San Ildefonso Pueblo
 Laurie King, EPA Region 6, Dallas, TX
 Steve Yanicak, NMED-DOE-OB, MS M894
 Tom Skibitski, NMED-OB, Santa Fe, NM (date-stamped letter emailed)
 Cheryl Rodriguez, DOE-LASO, MS A316 (date-stamped letter emailed)
 Annette Russell, DOE-LASO (date-stamped letter emailed)
 Kent Rich, EP-CAP, MS M992 (date-stamped letter emailed)
 Dave McInroy, EP-CAP, MS M992 (date-stamped letter emailed)
 Michael J. Graham, ADEP, MS M991 (date-stamped letter emailed)
 William Alexander, EP-BPS, MS M992 (date-stamped letter emailed)
 RPF, MS M707 (electronic)

Attachment 1
Lower Mortandad/Cedro Canyons Aggregate Area Proposed Sampling and Site Maps

Table 1
Proposed Sampling at SWMU 05-004

Sampling Objective	Location Number	Depth (ft)	TAL Metals	Nitrate	SVOCs	VOCs	Isotopic Uranium
Define vertical extent of lead, nitrate, and SVOCs	05-613788	9-10	X ^{a,b}	X	X	— ^c	—
Define vertical extent of copper and selenium	05-613789	9-10	X ^d	—	—	—	—
	05-613958	9-10	X ^e	—	—	—	—
	05-613959	9-10	X ^f	—	—	—	—
Define vertical extent of 2-hexanone and uranium-235/235	05-613790	34-35, 44-45	—	—	—	X ^g	X ^h

^a X = Analysis will be performed.

^b Lead only.

^c — = Analysis will not be performed.

^d Selenium only.

^e Copper only.

^f Copper and selenium only.

^g Hexanone[2-] only.

^h Uranium-235/236 only.

Table 2
Proposed Sampling at SWMU 05-005(b)

Sampling Objective	Location Number	Depth (ft)	TAL Metals	SVOCs
Define vertical extent of antimony and calcium	05-613799	5-6, 9-10	X ^{a,b}	— ^c
	05-613802	5-6, 9-10	X ^d	—
Define lateral extent of calcium, perchlorate, and acenaphthene downgradient of location 05-613802	5b-1	0-1, 2-3, 5-6, 9-10	X ^e	X ^f

^a X = Analysis will be performed.

^b Antimony only.

^c — = Analysis will not be performed.

^d Calcium only.

^e Calcium and perchlorate only.

^f Acenaphthene only.

**Table 3
Proposed Sampling at SWMU 05-006(c)**

Sampling Objective	Location Number	Depth (ft)	TAL Metals	VOCs
Define vertical extent of silver and toluene	05-613807	9-10	— ^a	X ^{b,c}
	05-613929	9-10	X ^d	—
Collect confirmation samples at three new locations around location 05-613800 after excavation	6c-1 (north)	0-1, 2-3, 5-6	X ^e	—
	6c-2 (south)	0-1, 2-3, 5-6	X ^e	—
	6c-3 (east)	0-1, 2-3, 5-6	X ^e	—

^a — = Analysis will not be performed.

^b X = Analysis will be performed.

^c Toluene only.

^d Silver only.

^e Lead only.

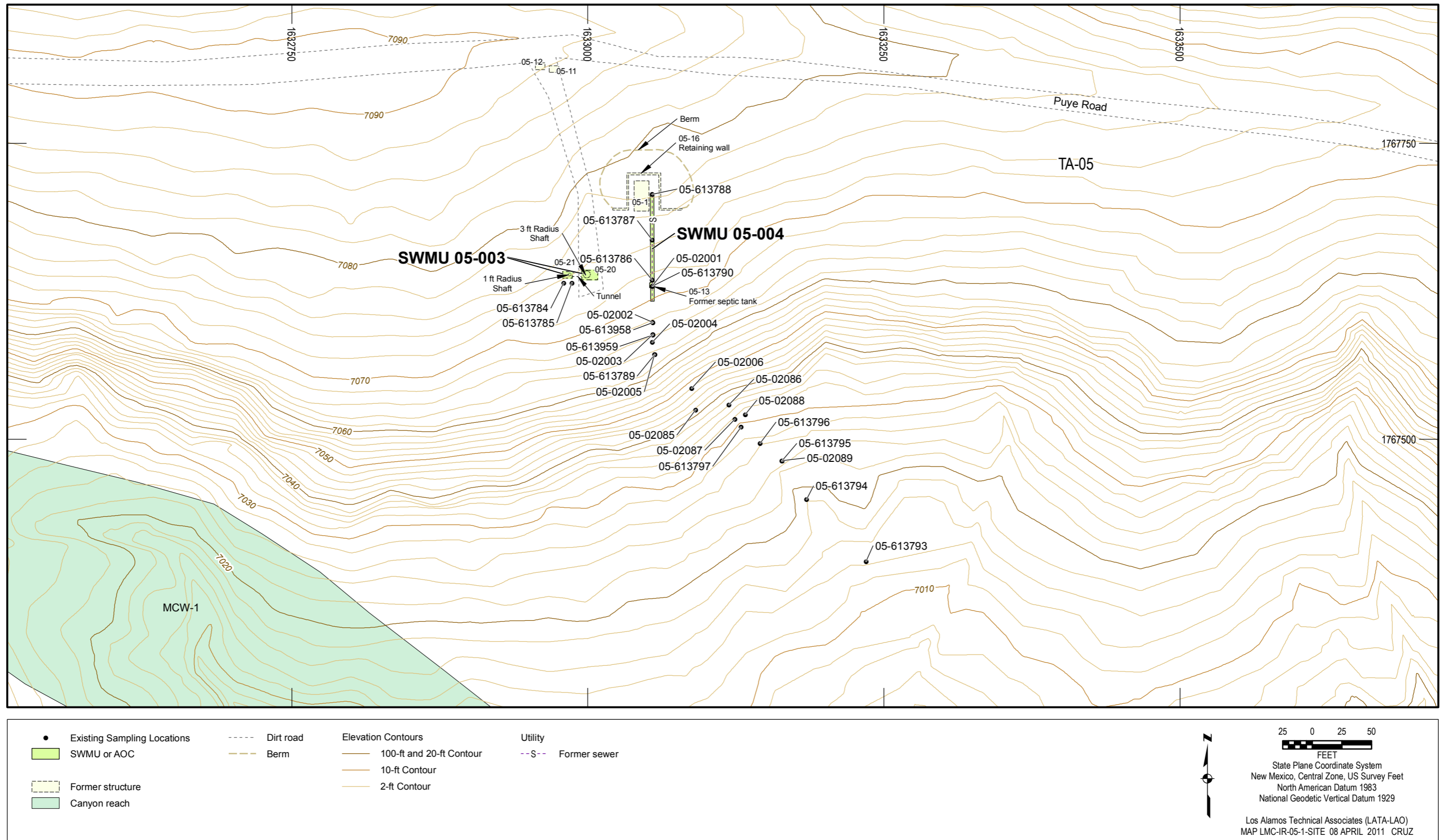


Figure 1 SWMUs 05-003 and 05-004 site map and sampling locations

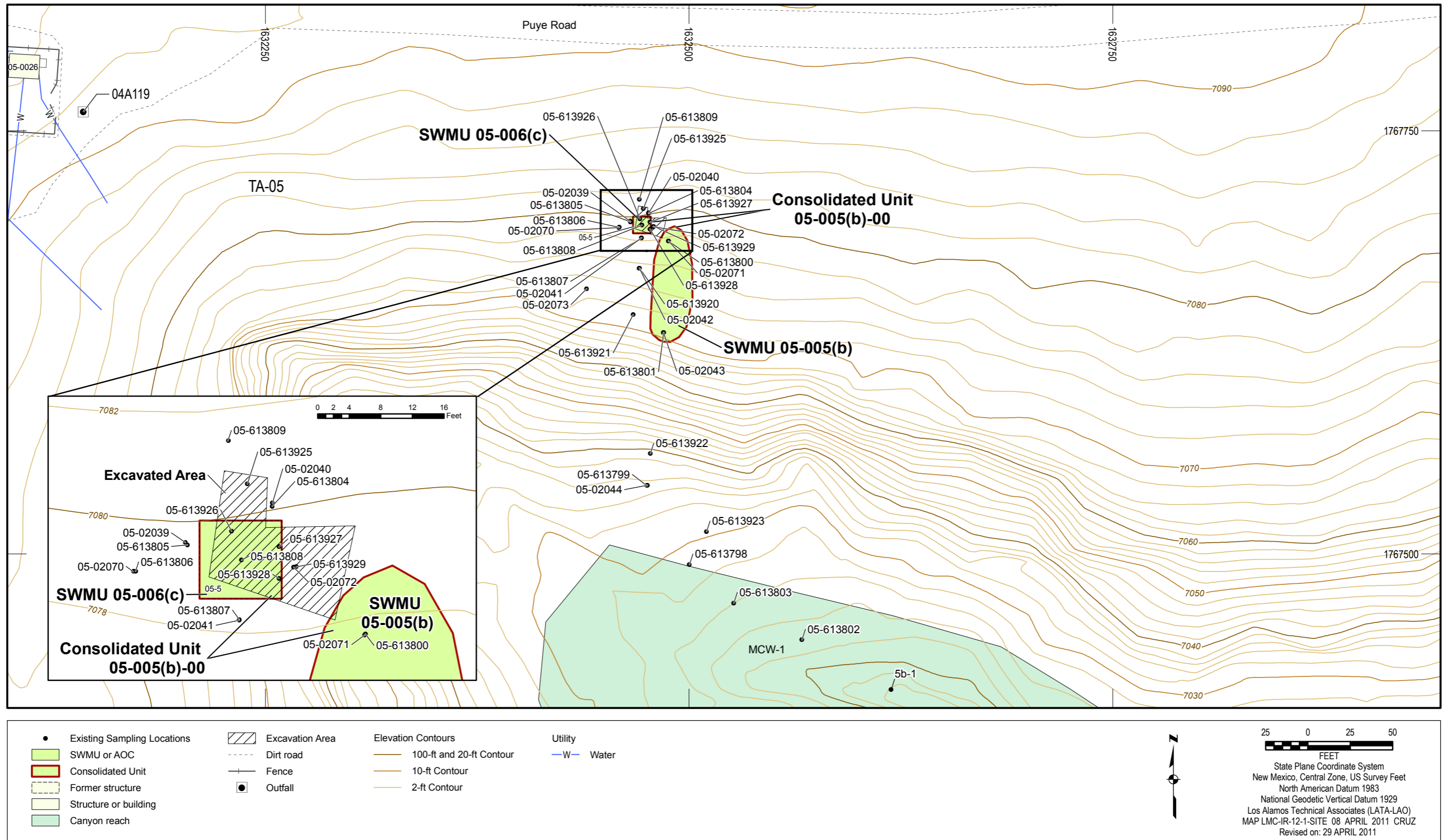


Figure 2 Consolidated Unit 05-005(b)-00 [SWMUs 05-005(b) and 05-006(c)] site map and sampling locations