



## AGENDA

**CAB FULL BOARD MEETING**  
Frank Rogers Auditorium  
755 E. Flamingo Road, Las Vegas, NV

**5:00 p.m. – July 14, 2010**

1. **Open Meeting / Agenda Review** **Denise Rupp**, Facilitator
2. **Membership** **Kelly Snyder**, DDFO
3. **Chair's Opening Remarks:**
  - Agenda Approval **Walt Wegst**, Board Chair
4. **FY 2011 Environmental Management Introduction** **Scott Wade**, DOE
5. **FY 2011 Environmental Restoration Overview** **Rob Boehlecke**, DOE
6. **FY 2011 Waste Management Overview** **Jhon Carilli**, DOE
7. **Public Comment** **Denise Rupp**, Facilitator
8. ♦♦♦BREAK♦♦♦
9. **Work Plan Review** **Denise Rupp**, Facilitator
10. **Committee Updates:**
  - **Industrial Sites** **Kathy Bienenstein**, Committee Chair
  - **Membership** **Kathy Bienenstein**, Committee Chair
  - **Soils** **John McGrail**, Committee Chair
  - **Transportation/Waste** **Robert Johnson**, Committee Chair
  - **UGTA** **Jim Weeks**, Committee Member
    - UGTA Strategy Letter of Support
11. **EM SSAB Update** **Walt Wegst**, Board Chair
  - 5-19-10 EM SSAB Chairs Conference Call
  - Vote on EM SSAB Baseline Funding Recommendation
  - Top 3 Issues/Achievements/Activities for Fall EM SSAB Chairs Meeting
  - Attendees for New Mexico Chairs Conference
12. **DOE Update** **Scott Wade**, DOE

**13. Other CAB Business:**

- Member Orientation and Tour Update
- Executive Committee
- RadWaste 2010
- Next Full Board Meeting scheduled  
4:00 p.m. September 1, 2010 (***FIRST*** Wednesday of September)  
744 E. Flamingo Road, Las Vegas, NV

**Walt Wegst**, Board Chair

**Kelly Snyder**, DDFO

**10. June and July State of Nevada Notifications**

**Denise Rupp**, Facilitator

**11. Meeting Wrap-Up / Assessment**

**Denise Rupp**, Facilitator

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# CAB MEETING ATTENDANCE

## Full Board Meetings

FY 2010

October, 2009 through September, 2010

Name	11/18/09	12/16/09	1/13/10	3/10/10	5/12/10	7/14/10	9/8/10	Maximum Terms Limit	
Kathleen Bienenstein	✓	✓		✓	E			2014	
Bob Gatliff	✓	E		✓	✓			2010	
Patricia Fleming					U			2016	
David Freeman					✓			2016	
David Hermann	E	✓		✓	✓			2010	
Donna Hruska					✓			2016	
Robert Johnson	✓	✓		E	✓			2012	
Michael Long					E	E	E	2016	
John McGrail	✓	✓		✓	✓			2014	
Vernell McNeal	E	U		U	U			2012	
Gregory Minden					✓			2016	
Michael Moore					✓			2016	
Harry Mortenson					✓			2016	
Diane Niezgodski					U			2016	
Ted Oom	E	✓		E	✓			2012	
Jack Ramsey	✓	E		✓	✓			2010	
Ted Schweitzer	✓	✓		U	E			2014	
Herb Spiegel	✓	E		U	U			2014	
Hal Sullivan	✓	✓		✓	U			2012	
Michael Voegele					✓			2016	
Jim Weeks	✓	✓		E	✓			2012	
Walt Wegst	✓	✓		E	✓			2012	
<b>Key:</b>									
✓ = Present									
E = Excused    U = Unexcused									
RM = Removed    RS = Resigned									
Term Limit									

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# FY 2011 Environmental Management Activities



**Scott Wade**

Assistant Manager for Environmental Management  
Community Advisory Board

July 14, 2010



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# Environmental Management Projects

- Environmental Restoration
  - Underground Test Area
  - Industrial Sites
  - Soils



- Waste Management
  - Low-Level Waste



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# FY 2011 Fiscal Year

- October 1, 2010 – September 30, 2011
- Baseline funding - \$79,534 (\$K)
  - Does not include Program Direction or American Reinvestment and Recovery Act dollars



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# CAB Involvement

- On September 1, DOE will provide suggested FY 2011 CAB work plan items based on the FY 2011 Environmental Management activities presented tonight
  - The FY 2011 CAB Work Plan will be developed during the September 1, 2010 CAB Full Board meeting
- Dates listed in the briefings are tentative and CAB input would be needed in advance of the dates listed



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# FY 2011 Environmental Restoration Activities



**Rob Boehlecke**

Environmental Restoration Federal Project Director  
Community Advisory Board

July 14, 2010



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# Remediation Processes

- Corrective Action Investigation Plan (CAIP) - details the investigation plan and provides information for planning investigation activities
- Site Investigation – act of conducting field characterization activities
- Corrective Action Decision Document (CADD) - describes the results of the characterization, multiple corrective action alternatives, and the recommended corrective action alternative and the rationale for its selection



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# Remediation Processes

(continued)

- Corrective Action Plan (CAP) - plan for implementing the selected corrective action
- Closure Field Work - act of implementing the chosen corrective action in the field
- Closure Report (CR) - provides an overview and results of the corrective actions implemented, closure verification information, and use restriction and monitoring requirements (when applicable)
- CADD/CR - summarizes the results of the corrective action investigation and closure activities conducted



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# Industrial Sites

## FY 2011 Planned Activities



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# Industrial Sites Planned Activities

- Area 25 Reactor Maintenance Assembly and Disassembly (R-MAD) Facility, Corrective Action Unit (CAU) 113\*
  - Complete and submit Closure Report Addendum to State of Nevada Division of Environmental Protection (NDEP) – December 2010



\*American Recovery and Reinvestment Act (ARRA) funded



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# Industrial Sites Planned Activities

(continued)

- Area 25 Test Cell C Facility (CAU 116)
  - Complete demolition of main building – July 2011
  - Complete and submit Closure Report to NDEP- September 2011



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# Industrial Sites Planned Activities

(continued)

- Area 26 Pluto Disassembly Facility (CAU 117)\*
  - Complete demolition of facility – April 2011
  - Complete and submit Closure Report to NDEP – July 2011



\* ARRA funded



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# Industrial Sites Planned Activities

(continued)

- Areas 25 and 26 Railroad Tracks (CAU 539)\*
  - Complete field characterization and remediation of railroad tracks – January 2011
  - Complete and submit Closure Report to NDEP – June 2011
- Miscellaneous Contaminated Waste Sites (CAU 547)
  - Complete and submit Streamlined Approach for Environmental Restoration (SAFER) Plan to NDEP – May 2011

\* ARRA funded



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# Industrial Sites Planned Activities

(continued)

- Engine Maintenance Assembly and Disassembly (EMAD) Compound (CAU 566)
  - Complete characterization and closure fieldwork – February 2011
  - Complete and submit Closure Report to NDEP – June 2011



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# Industrial Sites Planned Activities

(continued)

- Resource Conservation Recovery Act (RCRA), Non-RCRA, and Tonopah Test Range post-closure sites
  - Complete post-closure inspections – throughout FY 2011
  - Submit monitoring reports to NDEP – May 2011



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# Soils

## FY 2011 Planned Activities



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# Soils Planned Activities

- Area 20 Schooner Unit Crater (CAU 374)\*
  - Complete characterization field work – August 2010
  - Complete CADD and submit to NDEP – January 2011

\* ARRA funded



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# Soils Planned Activities

(continued)

- Area 20 Cabriole/Palanquin Unit Craters (CAU 372)
  - Complete CADD and submit to NDEP – October 2010
  - Begin closure field work – December 2010
- Areas 5, 11 Frenchman Flat Atmospheric Sites (CAU 106)\*
  - Complete field work – October 2010
  - Complete CADD and submit to NDEP – May 2011

\* ARRA funded



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# Soils Planned Activities

(continued)

- Area 10 Sedan, Ess and Uncle Unit Craters (CAU 367)\*
  - Complete CADD and submit to NDEP – January 2011



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# Soils Planned Activities

(continued)

- Area 30 Buggy Unit Craters (CAU 375)\*
  - Complete CADD and submit to NDEP – February 2011
- Area 11 Plutonium Valley Unit Safety Shots (CAU 366)
  - Complete CAIP and submit to NDEP – February 2011
  - Begin characterization field work – March 2011

\* ARRA funded



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# Soils Planned Activities

(continued)

- Baneberry Contamination Area (CAU 365)\*
  - Complete CAIP – December 2010
  - Complete characterization field work – April 2011



\* ARRA funded



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# Soils Planned Activities

(continued)

- Area 3 Yucca Flat Atmospheric Test Sites (CAU 569)
  - Begin CAIP – July 2011
- Area 7 Yucca Flat Atmospheric Test Sites (CAU 104)\*
  - Complete CAIP and submit to NDEP – September 2011

\* ARRA funded



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# Underground Test Area (UGTA) FY 2011 Planned Activities



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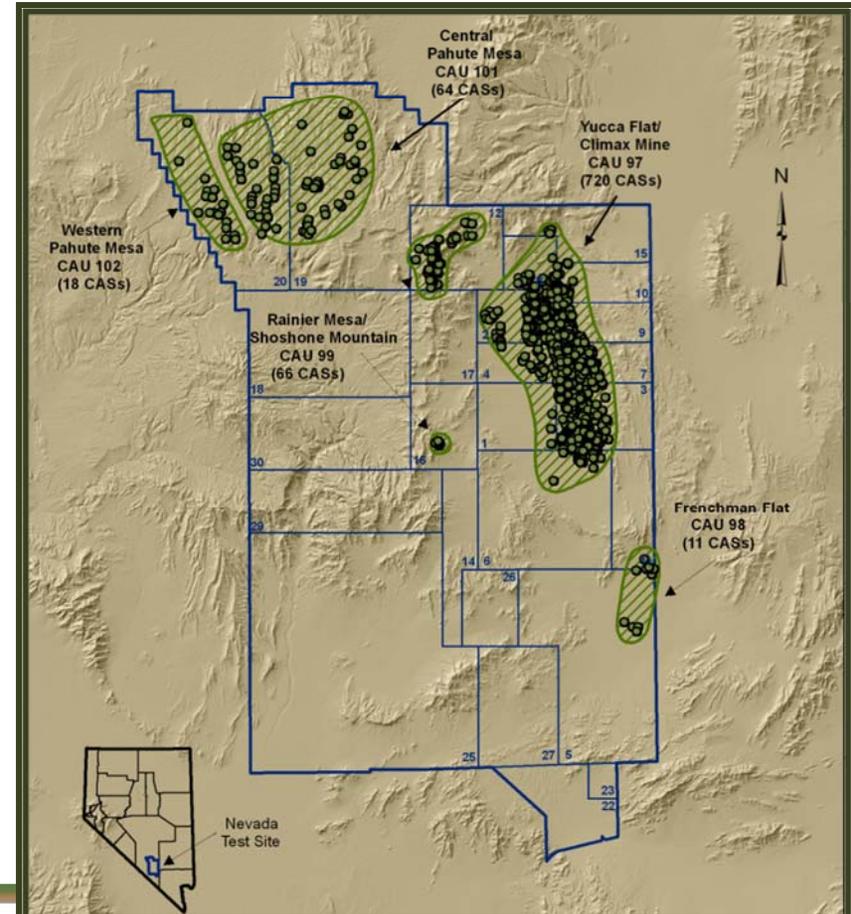
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# Underground Test Area (UGTA) Planned Activities

- Frenchman Flat
  - Complete CADD/CAP and submit to NDEP – June 2011
  - Begin Closure Report – June 2011



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# UGTA Planned Activities

(continued)

- Central/Western Pahute Mesa
  - Drill one well – November 2010
  - Complete well development and testing at three wells, complete two - ongoing through FY 2012
  - Begin aquifer testing data collection and analysis – May 2011



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# UGTA Planned Activities

(continued)

- Central/Western Pahute Mesa
  - Conduct ongoing geology analysis and evaluation – October 2010 – September 2012
  - Conduct ongoing hydrology analysis and evaluation - October 2010 – October 2012
  - Conduct ongoing Transport Model analysis and evaluation - October 2010 – October 2012



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# UGTA Planned Activities

(continued)

- Yucca Flat
  - Complete Revision 0 of Transport Model and submit to NDEP – July 2011
  - Begin Phase II CAIP – August 2011



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# UGTA Planned Activities

(continued)

- Rainier Mesa/Shoshone Mountain
  - Complete Source Term data analysis – September 2011
  - Continue Flow Model data analysis and evaluation – ongoing activity through April 2011
  - Continue Transport Model data analysis and evaluation – ongoing activity through August 2012



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# FY 2011 Waste Management Activities



**Jhon Carilli**

Low-Level Waste Federal Sub-Project Director  
Community Advisory Board

July 14, 2010



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# FY 2011 Planned Activities

- Safely dispose approximately 1.6 million ft<sup>3</sup> of forecasted Low-Level Waste (LLW) and Mixed Low-Level Waste (MLLW)
- Conclude current MLLW disposal activities – November 2010



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# FY 2011 Planned Activities

(continued)

- New Mixed Waste Disposal Unit
  - Receive Resource Conservation and Recovery Act Disposal Permit from State of Nevada Division of Environmental Protection (NDEP) - December 2010
  - Begin MLLW disposal - March 2011
- Complete construction of two new LLW disposal cells – November 2010
- Receive Mixed Waste Storage Unit permit from NDEP – December 2010



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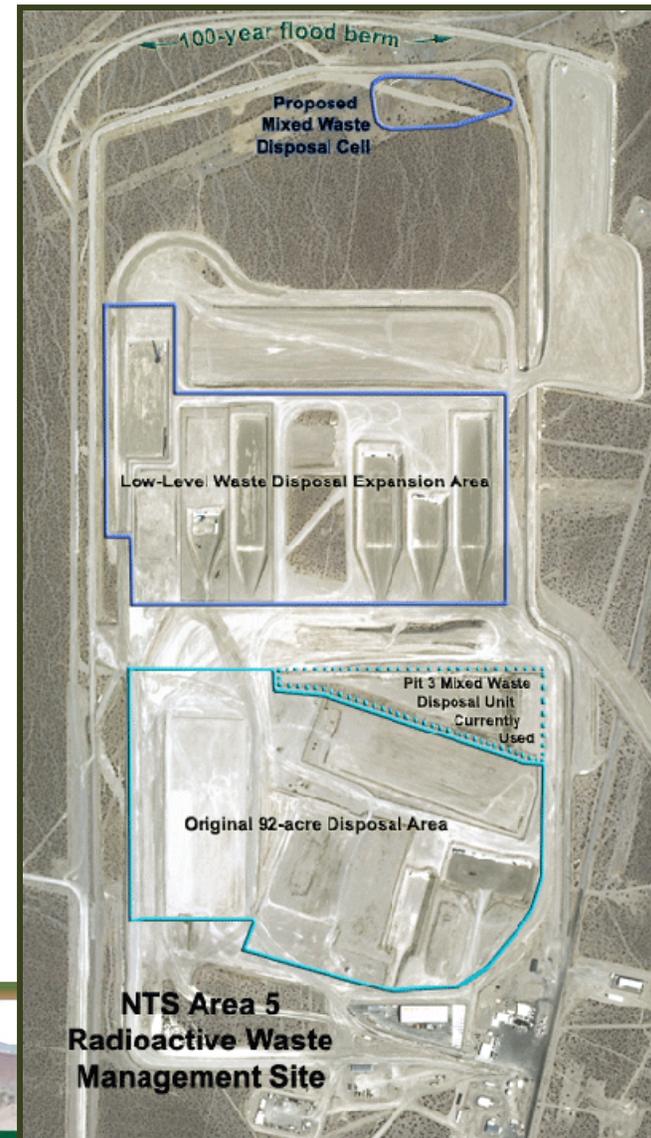
[www.em.doe.gov](http://www.em.doe.gov)

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# FY 2011 Planned Activities

(continued)

- Begin closure of the 92-Acre portion of the Area 5 Radioactive Waste Management Site in compliance with NDEP approved Corrective Action Decision Document / Corrective Action Plan
  - Prep work – October – December 2010
  - Closure construction – December 2010 – May 2011



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# FY 2011 Planned Activities

(continued)

- Receive Hazardous Waste Storage Unit (Area 5 - Drum Yard) Storage Permit - December 2010
- Receive Explosive Ordnance Disposal Unit (Area 11) permit - December 2010
- Determine if the DOE Complex needs mixed waste treatment on the NTS
- Operationally close disposal cells as necessary



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# Community Advisory Board for Nevada Test Site Programs

## **Members**

Kathleen Bienenstein  
Patricia Fleming  
Robert Gatliff  
David Hermann  
Donna Hruska  
Robert Johnson  
Michael Long  
John M. McGrail, P.E.  
Vernell McNeal  
Gregory Minden  
Michael Moore  
Harry Mortenson  
Diane Niezgodski  
Theodore Oom  
Jackson Ramsey, PhD  
**Harold Sullivan, Vice-Chair**  
Michael Voegele  
James Weeks  
**Walter Wegst, PhD, Chair**

## **Liaisons**

Nye County  
Clark County  
State of Nevada Division of  
Environmental Protection  
U.S. Department of Energy,  
Nevada Site Office  
U.S. National Park Service

## **Administration**

Denise Rupp, Administrator  
*Navarro Research & Engineering,  
Inc.*  
Kelly Snyder, DDFO  
*U.S. Department of Energy,  
Nevada Site Office*

July 14, 2010

Mr. Rob Boehlecke  
Environmental Restoration Federal Project Director  
U.S. Department of Energy, Nevada Site Office  
232 Energy Way, M/S 505  
North Las Vegas, NV 89030

RE: Letter of Support - Revision 3 of the Federal Facility Agreement  
and Consent Order (FFACO) Appendix 6 - Underground Test Area  
(UGTA) Strategy

Dear Mr. Boehlecke,

At the request of the Department of Energy (DOE), the Community Advisory Board for the Nevada Test Site Programs (CAB) has reviewed Revision 3 of the FFACO Appendix 6 - UGTA Strategy and has no recommendations for enhancing the strategy. The CAB supports the document revision and looks forward to providing recommendations in the future regarding other areas of the UGTA sub-project.

The revised strategy is a result of the evolving process of characterization, data collection, modeling and evaluation. The flexibility to address inherent uncertainties with model refinement and additional decision points, and institutional controls are major contributions to the improved strategy.

The CAB believes the revised strategy represents a comprehensive, risk-based process toward determining the location and movement of

Mr. Rob Boehlecke  
U.S. Department of Energy, Nevada Site Office  
July 14, 2010  
Page 2

radioactive contaminants in groundwater and commends the UGTA team and the State of Nevada for their hard work. The CAB would also like to express their appreciation to Bill Wilborn for the time he spent working with the Board to ensure a greater understanding of the strategy.

Sincerely,

Walter F. Wegst, Chair  
Community Advisory Board  
for Nevada Test Site Programs

cc: C. Lockwood, PSG, NNSA/NSO, Las Vegas, NV  
K. Snyder, PSG, NNSA/NSO, Las Vegas, NV  
D. Rupp, NREI, Las Vegas, NV  
M. Nielson, DOE/HQ (EM-13) FORS  
C. Brennan, DOE/HQ (EM-13) FORS  
A. Clark, DOE/HQ (EM-13) FORS  
Tim Murphy, Nevada Division of Environmental Protection  
Christine Andres, Nevada Division of Environmental Protection  
CAB Members and Liaisons  
NNSA/NSO Read File



## FY 2010 Work Plan

changes reflected in blue

<i>(numbers reflect priority)</i>	<b>Task</b>	<b>Committee Assignment</b>	<b>Completion Date</b>	<b>Status</b>
1	Corrective Action Unit (CAU) 114 Engine Maintenance, Assembly, and Disassembly Facility (EMAD) – evaluate possible clean up scenarios DOE is considering and make recommendation regarding path forward for remediation site	Industrial Sites	Dec-09	recommendation submitted 12/17/09
2	2 Locomotive and 4 Train Cars used in DOE activities at the Nevada Test Site – review possible use/disposal	Industrial Sites	Mar-10 July-10	<i>meeting date TBD</i>
3	New Mixed Low-Level Waste Disposal Cell – provide recommendation during State of Nevada public comment period regarding CAB’s stance on Resource Conservation Recovery Act (RCRA) Permit for construction and utilization of new MLLW disposal cell	Transportation/ Waste	Dec-09	recommendation submitted 12/8/09
4	FY 2012 Budget – provide recommendation regarding the CAB’s FY 2012 sub-project funding prioritization	Budget	Mar-10	recommendation submitted 3-13-10
5	UGTA Approach for Lower Risk CAUs – year-long education opportunity in anticipation of future FY recommendation exploring possibility of moving from modeling to monitoring approach	UGTA	n/a Sept-10	<i>letter of support for 7-14-10 vote</i>
6	Pahute Mesa Drilling Campaign Wells – evaluate DOE’s potential uses for offsite UGTA wells and provide recommendation regarding path forward	UGTA	Mar-10	removed from plan 2/9/10 - recommendation needed FY 2012 - ongoing updates FY2010/11
7	Membership Recruitment – recruit, interview and recommend potential Board members	Membership	Jan-10	recommendation submitted 12/17/09
8	Waste Volumes and Transportation - research and analyze waste volume moving along waste transportation routes as well as alternative reporting of shipments and make recommendations	Transportation/ Waste	TBD	
9	Groundwater Models – review and make recommendations regarding DOE’s updated groundwater model flow paths	UGTA	Mar-10	removed from plan 2/9/10 - recommendation needed FY 2012 - ongoing updates FY2010/11

<i>(numbers reflect priority)</i>	<b>Task</b>	<b>Committee Assignment</b>	<b>Completion Date</b>	<b>Status</b>
10	CAU 372, Area 20 Cabriole/Palanquin Unit Craters – evaluate possible closure scenarios DOE is considering and make recommendation regarding path forward for closing the site	Soils	Jan-10 July-10	<i>awaiting completion of field investigation by DOE</i>
11	Groundwater Wells Completion Reports – review and make recommendations on completion reports for ER-20-7, ER-20-8, ER-20-8#2, and all FY 2010 wells	UGTA	TBD Sept-10	<i>awaiting completion reports</i>
12	Operation Clean Desert Enhancement – explore and make recommendations on possible science activities to enhance EM Outreach’s Operation Clean Desert program	Outreach	TBD	removed from plan 3/2/10
13	CAB Outreach Display – Develop a CAB outreach display to increase CAB awareness	Outreach	May-10	completed 05-10
14	CAU 371, Johnnie Boy Crater and Pin Stripe – evaluate possible closure scenarios DOE is considering and make recommendation regarding path forward for closing the site	Soils	Dec-09	recommendation submitted 12/17/09
15	Explore possibility of CAB-sponsored science Fair in conjunction with Beatty schools in 2009/2010 school year	Outreach	May-10	removed from plan 3/2/10 - not within CAB purview
16	DOE Public Education – make recommendations to DOE regarding ongoing public education of test site activities/history	Outreach	ongoing	removed from plan 3/2/10
17	Low-Level Waste Sub-Project Funding Cut – provide recommendation regarding ~\$17 million cut in funding since FY 2009	Budget	Mar-10	removed from plan 3/3/10
18	DOE Land Withdrawal – review and make recommendation regarding DOE’s withdrawal in response to land-use issues raised by the State of Nevada Attorney General	Transportation/ Waste	TBD	removed from plan 11/19/09 - land transfer completed
19	Student Liaison CAB positions (2)	Membership	Sep-10	<i>awaiting response from Pahrump Valley High School</i>
20	MWSU Permit Application - review and make recommendation regarding CAB position on DOE's RCRA permit for new MWSU permit	Transportation/ Waste	~ Sep-10	

1 **Draft 5-6-2010**

2  
3  
4 **To: Dr. Ines Triay, Assistant Secretary for Environmental Management**

5  
6 **Subject: Recommendation on Baseline Funding Support**

7  
8  
9 The Environmental Management Site-Specific Advisory Board (EM SSAB) Chairs are very  
10 pleased with the boost in clean-up that each of our respective sites received from the American  
11 Recovery and Reinvestment Act (ARRA) budget allocations. It has accelerated cleanup, in the  
12 near-term, of sites, removing waste that would have been more problematic if left for future  
13 remediation.

14  
15 The ARRA budget has also reduced the need for surveillance and maintenance of our sites with  
16 the decommissioning and removal of old facilities and infrastructure. This has also provided  
17 access to contaminated soils underneath these facilities in need of excavation. Along with  
18 reducing site footprints, our communities will have land returned to them for reuse.

19  
20 ARRA money has also helped to build a stronger, more highly skilled work force which is  
21 greatly needed to address the technical complexities of radioactive waste handling. At some of  
22 our sites we have seen them move seamlessly from waste site to waste site, accomplishing  
23 removal, treatment and disposal of thousands of cubic yards of soil and debris. The program has  
24 had great rewards for DOE and its stakeholders across the country.

25  
26 As we move beyond 2011—when ARRA money for additional scopes of cleanup will essentially  
27 cease—we have concerns. The EM SSAB Chairs believe that DOE/EM should ensure that the  
28 momentum of cleanup at our sites through activities funded by ARRA dollars does not cease.

29  
30 We urge DOE/EM to request base program budgets for 2012 and beyond that are compliant with  
31 meeting negotiated cleanup levels and timelines and takes advantage of the skilled workforce  
32 now in place at each of our respective sites. In light of any anticipated budget constraints, the  
33 EM SSAB Chairs encourage DOE/EM to apply the lessons learned under the ARRA program to  
34 implement productivity improvements to ensure that no momentum is lost with  
35 planned projects. This will assure the continued momentum of cleanup and provide a stable  
36 workforce in our local communities.

37  
38 We do not want to see any of the 2012 and beyond base program funds for remediation reduced  
39 or diverted away from DOE/EM. We, the EM SSAB Chairs, encourage DOE/EM to request, at a  
40 minimum, continued base program funding for all planned projects. In maintaining base  
41 program funding, DOE/EM will continue to reduce risks to human health and the environment –  
42 a benefit to all citizens.

43  
44 We applaud all of the DOE/EM cleanup successes of the past couple of years and look forward  
45 to a continued, determined effort focused on maximizing cleanup efforts across the EM complex.  
46 The EM SSAB Chairs invite DOE/EM to discuss this issue at the fall 2010 Chairs' meeting.

## Public Notification of Corrective Actions

June 2, 2010

Las Vegas, Nevada

The Department of Energy (DOE) will be submitting the following Corrective Action Unit (CAU) final Corrective Action Decision Document (CADD), CADD/Corrective Action Plan (CAP), CADD/Closure Report (CR), or Streamlined Approach for Environmental Restoration (SAFER) Work Plan documents, proposing closure-in-place to the Nevada Division of Environmental Protection (NDEP), during the next 60 days. These documents will recommend a closure-in-place strategy in which engineering and/or administrative controls will be used to close the sites although contamination remains.

When submitting these documents to NDEP, copies will be supplied to the Las Vegas and Carson City Public Reading Facilities for review. The Community Advisory Board (CAB) may request copies of the documents by contacting the CAB office at [ntscab@nv.doe.gov](mailto:ntscab@nv.doe.gov). Submit comments regarding a decision document to Tim Murphy (NDEP) at [TMurphy@ndep.nv.gov](mailto:TMurphy@ndep.nv.gov) within 30 days of the document's release. Public Reading Facility addresses are listed below.

CAU Number	CAU Description	Document	Approximate Submittal Date
544	Cellars, Mud Pits, and Oil Spills	SAFER Plan	07/13/10
371	Johnnie Boy Crater and Pin Stripe	CADD/CR	07/30/10

### *Site Information for CAU 544, Johnnie Boy Crater and Pin Stripe*

**Location:** Various, across Areas 2, 7, 9, 10, 12, 19 and 20

**CAU Brief History:** The 20 CASs within this CAU are comprised of mud pits where emplacement and post shot drilling mud was pumped, along with 2 sumps, and 4 other fuel spill locations.

**Contaminants of Concern:** Total Petroleum Hydrocarbons, Volatiles, Poly-Chlorinated Biphenyls, Metals, Radionuclides

**Type of Corrective Action Taking Place:** Through the SAFER plan, the sites will be sampled and material removed if necessary, or no further action may be selected as the corrective action.

### *Site Information for CAU 371, Cellars, Mud Pits, and Oil Spills*

**Location:** Area 11 (Pin Stripe) and Area 18 (Johnnie Boy)

**CAU Brief History:** Sites consist of:

1. Pin Stripe – Release of radioactive contamination as a result of the venting of radiological material from a fissure formed during the underground test.
2. Johnnie Boy – Release of radioactive material from the near-surface weapons-effects test.

**Contaminants of Concern:** Radionuclides

**Type of Corrective Action Taking Place:** Closure in Place with Use Restrictions.

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The following is a list of all documents submitted to the Public Reading Facilities during May 2010. Attached is the Executive Summary from the document listed below.

CAU Number	CAU Description	Document
106	Areas 5, 11 Frenchman Flat Atmospheric Sites	Corrective Action Investigation Plan (CAIP)

## Executive Summary for CAU 106 CAIP

Corrective Action Unit (CAU) 106 is located in Area 5 of the Nevada Test Site, which is approximately 65 miles northwest of Las Vegas, Nevada. Corrective Action Unit 106 comprises the five corrective action sites (CASs) listed below:

- 05-23-02, GMX Alpha Contaminated Area
- 05-23-05, Atmospheric Test Site - Able
- 05-45-01, Atmospheric Test Site - Hamilton
- 05-45-04, 306 GZ Rad Contaminated Area
- 05-45-05, 307 GZ Rad Contaminated Area

These sites are being investigated because existing information on the nature and extent of potential contamination is insufficient to evaluate and recommend corrective action alternatives (CAAs). Additional information will be obtained by conducting a corrective action investigation before evaluating CAAs and selecting the appropriate corrective action for each CAS. The results of the field investigation will support a defensible evaluation of viable CAAs that will be presented in the Corrective Action Decision Document.

The sites will be investigated based on the data quality objectives (DQOs) developed on January 19, 2010, by representatives of the Nevada Division of Environmental Protection and the U.S. Department of Energy (DOE), National Nuclear Security Administration Nevada Site Office. The DQO process was used to identify and define the type, amount, and quality of data needed to develop and evaluate appropriate corrective actions for CAU 106.

The presence and nature of contamination at CAU 106 will be evaluated based on information collected from a field investigation. The CAU includes land areas impacted by the release of radionuclides from a weapons-effect tower test (CAS 05-45-01), a weapons-related airdrop test (CAS 05-23-05), "equation of state" experiments (CAS 05-23-02), and unknown support activities at two sites (CAS 05-45-04 and CAS 05-45-05).

Surface-deposited radiological contamination will be evaluated based on a comparison of the total effective dose (TED) at sample plot locations to the dose-based final action level. The TED will be calculated as the total of separate estimates of internal and external doses. Results from the analysis of soil samples collected from sample plots will be used to calculate internal radiological dose.

Thermoluminescent dosimeters placed at the center of each sample plot will be used to measure external radiological dose. The presence and nature of contamination from other types of releases (such as migration and excavation as well as any potential releases discovered during the investigation) will be evaluated using soil samples collected from the locations most likely containing contamination, if present.

Appendix A provides a detailed discussion of the DQO methodology and the DQOs specific to each CAS.

The scope of the corrective action investigation for CAU 106 includes the following activities:

- Conduct radiological surveys.
- Collect and submit environmental samples for laboratory analysis to determine internal dose rates and the presence of contaminants of concern.
- If contaminants of concern are present, collect additional samples to define the extent of the contamination and determine the area where TED at the site exceeds final action levels (i.e., corrective action boundary).
- Collect samples of investigation-derived waste, as needed, for waste management purposes.

This Corrective Action Investigation Plan has been developed in accordance with the *Federal Facility Agreement and Consent Order* that was agreed to by the State of Nevada; DOE, Environmental Management; U.S. Department of Defense; and DOE, Legacy Management. Under the *Federal Facility Agreement and Consent Order*, this Corrective Action Investigation Plan will be submitted to the Nevada Division of Environmental Protection for approval. Fieldwork will be conducted following approval of the plan.

## Public Notification of Corrective Actions

July 7, 2010

Las Vegas, Nevada

The Department of Energy (DOE) will be submitting the following Corrective Action Unit (CAU) final Corrective Action Decision Document (CADD), CADD/Corrective Action Plan (CAP), CADD/Closure Report (CR), or Streamlined Approach for Environmental Restoration (SAFER) Work Plan documents, proposing closure-in-place to the Nevada Division of Environmental Protection (NDEP), during the next 60 days. These documents will recommend a closure-in-place strategy in which engineering and/or administrative controls will be used to close the sites although contamination remains.

When submitting these documents to NDEP, copies will be supplied to the Las Vegas and Carson City Public Reading Facilities for review. The Community Advisory Board (CAB) may request copies of the documents by contacting the CAB office at [ntscab@nv.doe.gov](mailto:ntscab@nv.doe.gov). Submit comments regarding a decision document to Tim Murphy (NDEP) at [TMurphy@ndep.nv.gov](mailto:TMurphy@ndep.nv.gov) within 30 days of the document's release. Public Reading Facility addresses are listed below.

CAU Number	CAU Description	Document	Approximate Submittal Date
371	Johnnie Boy Crater and Pin Stripe	CADD/CR	07/30/10

### *Site Information for CAU 371, Johnnie Boy Crater and Pin Stripe*

**Location:** Area 11 (Pin Stripe) and Area 18 (Johnnie Boy)

**CAU Brief History:** Sites consist of:

1. Pin Stripe – Release of radioactive contamination as a result of the venting of radiological material from a fissure formed during the underground test.
2. Johnnie Boy – Release of radioactive material from the near-surface weapons-effects test.

**Contaminants of Concern:** Radionuclides

**Type of Corrective Action Taking Place:** Closure in Place with Use Restrictions.

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Carson City, NV 89701-4285

The following is a list of all documents submitted to the Public Reading Facilities during June 2010. Attached is the Executive Summary from the document listed below.

CAU Number	CAU Description	Document
101/102	Central and Western Pahute Mesa	Completion Report for Well ER-20-7

### **Introduction for Completion Report for Well ER-20-7 (CAUs 101/102)**

Well ER-20-7 was drilled for the U.S. Department of Energy, National Nuclear Security Administration Nevada Site Office (NNSA/NSO) in support of the Nevada Environmental Restoration Project at the Nevada Test Site (NTS), Nye County, Nevada. Well ER-20-7 was the first well drilled as part of the Phase II hydrogeologic investigation well drilling program in the Central and Western Pahute Mesa area of Nye County, Nevada.

The Pahute Mesa Phase II drilling program is part of the Corrective Action Investigation Plan (CAIP) for the Central and Western Pahute Mesa Corrective Action Units (CAUs) 101 and 102 (NNSA/NSO, 2009a). The CAIP is a requirement of the Federal Facility Agreement and Consent Order (FFACO) (1996, as amended February 2008).

The Central and Western Pahute Mesa CAUs and the associated well drilling program are part of the NNSA/NSO Environmental Restoration Project's Underground Test Area (UGTA) Sub-Project at the NTS. Two of the goals of the UGTA Sub-Project are to evaluate the nature and extent of contamination in groundwater due to underground nuclear testing, and to establish a long-term groundwater monitoring network. As part of the UGTA Sub-Project, scientists are developing computer models to predict groundwater flow and contaminant migration within and near the NTS. To build and test these models, it is necessary to collect geologic, geophysical, and hydrologic data from new and existing wells to define groundwater quality, migration pathways, and migration rates. Data from these wells will allow for more accurate modeling of groundwater flow and radionuclide migration in the region. Some of the wells may be used as long-term monitoring wells.

Well ER-20-7 is located near the northwest boundary of the NTS (Figure 1-1). The primary purpose of this well was to further investigate migration of radionuclides from the nearby upgradient TYBO (U-20y) and BENHAM (U-20c) underground nuclear tests (UGTs) (Figure 1-2), which was originally discovered at Well Cluster ER-20-5 (U.S. Department of Energy, Nevada Operations Office [DOE/NV], 1997). Detailed hydrogeologic information for the Tertiary volcanic section obtained from this well will reduce uncertainties within the Pahute Mesa–Oasis Valley (PM-OV) hydrostratigraphic framework model (HFM) (Bechtel Nevada [BN], 2002) and subsequent flow and transport modeling.

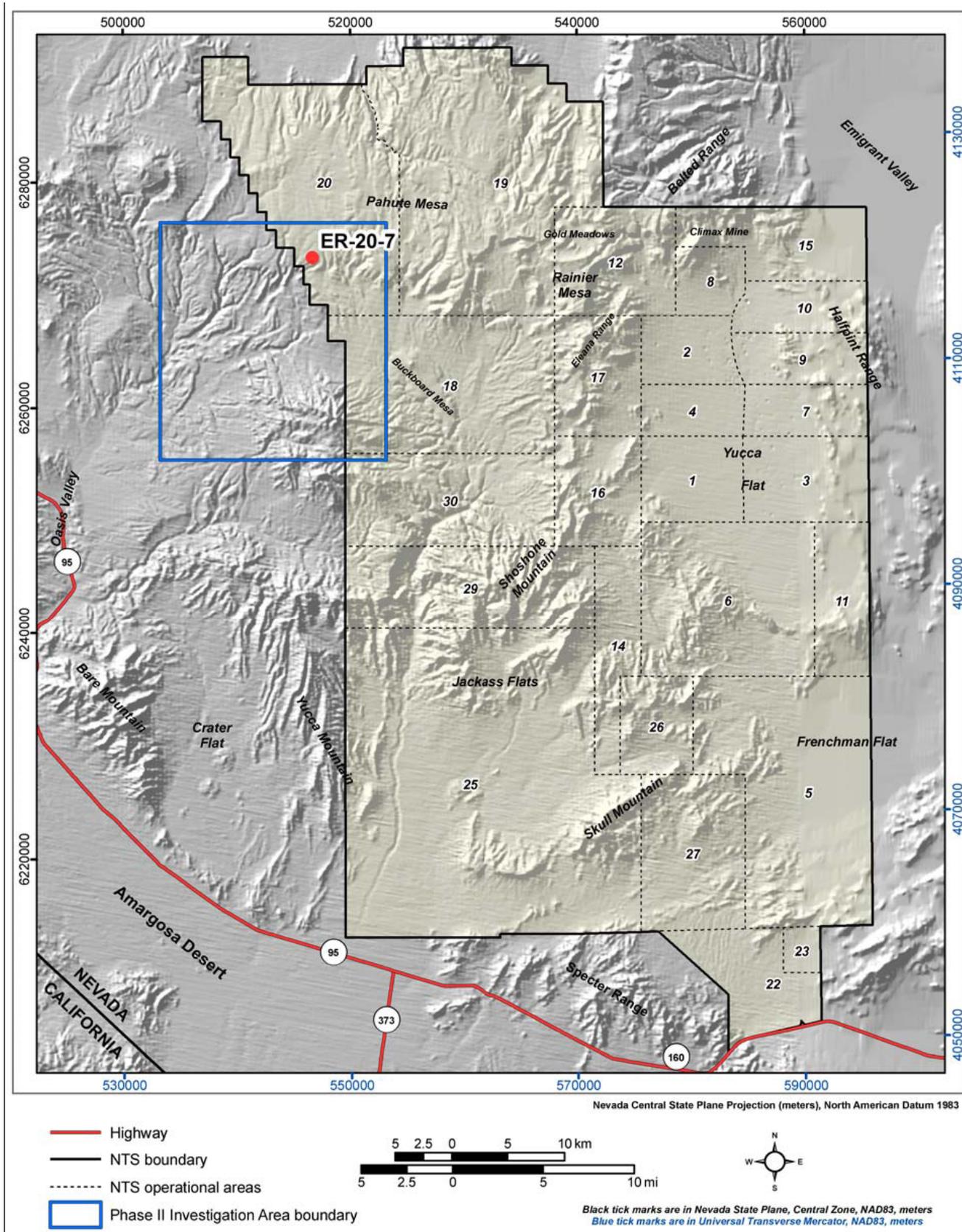
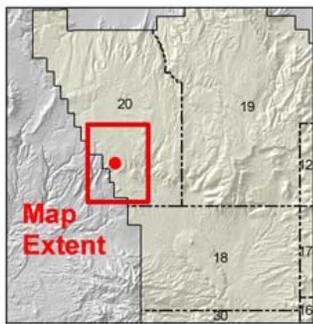
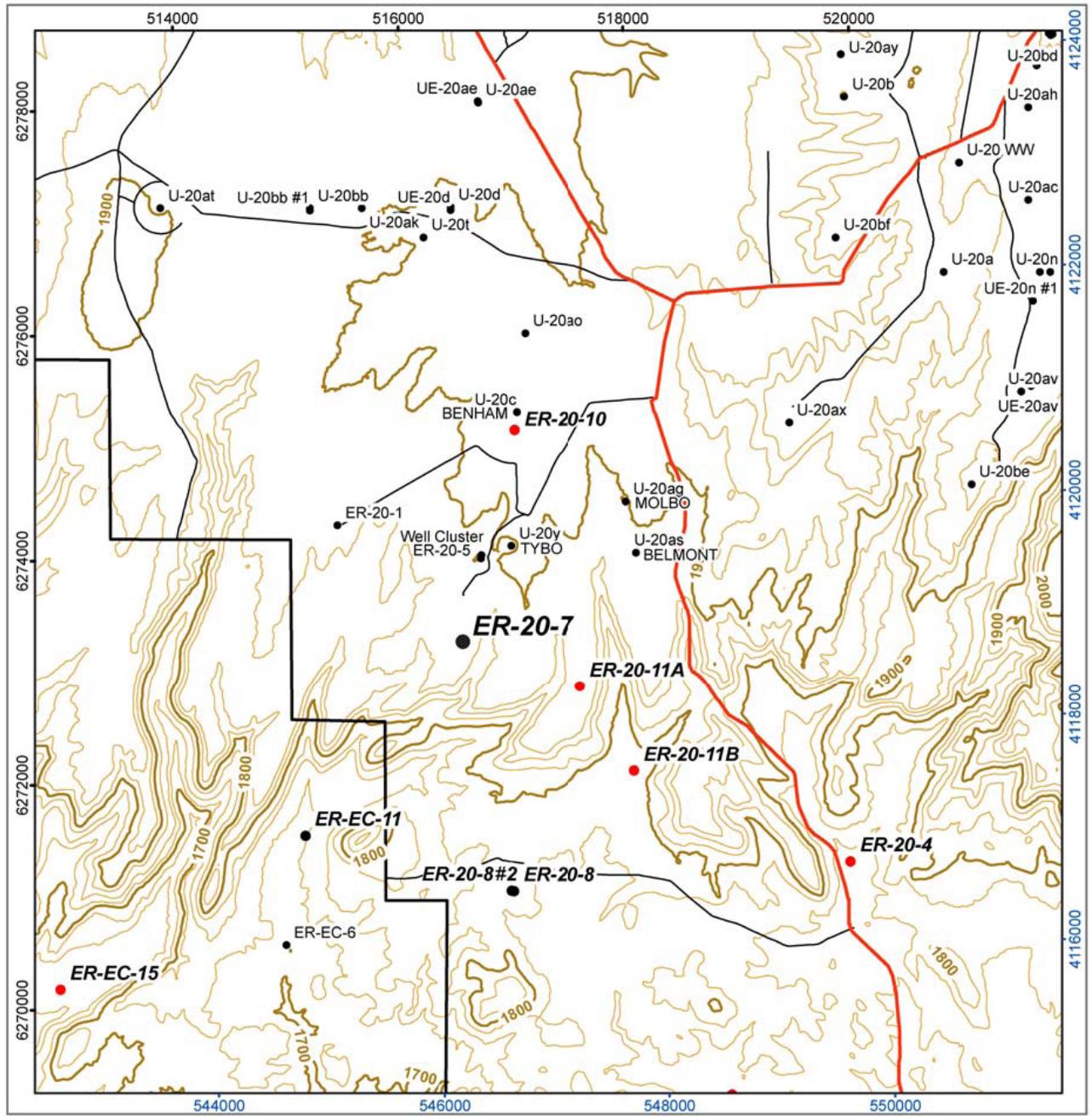


Figure 1-1  
Reference Map Showing Location of Well ER-20-7



- Existing drill hole
- Proposed well location
- NTS boundary
- Paved road
- Unpaved road
- Elevation contour (100 m)
- Elevation contour (25 m)

Nevada Central State Plane Projection (meters), North American Datum 1983

1,000 500 0 1,000 2,000 m

3,000 1,500 0 3,000 6,000 ft

Black tick marks are in Nevada State Plane, Central Zone, NAD83, meters  
Blue tick marks are in Universal Transverse Mercator, NAD83, meters

**Figure 1-2**  
**Topographic Map of the Well ER-20-7 Area Showing the Locations of Roads and Nearby Drill Holes**