

WELCOME

Public Open House

Scoping Meeting

October 14, 2015

**Environmental Impact Statement for the
Proposed Lost Creek Uranium *In Situ*
Recovery Project Modifications,
Sweetwater County, WY**



How to Comment

Everyone is encouraged to provide comments. Your comments will become part of the official public record and will be considered in the development of the environmental impact statement (EIS). Submit your comments by November 2, 2015.

- Drop form in Comment Box
- Email: Lost_Crk_Mine_WY@blm.gov
- Fax: (307) 328-4224
- Mail: Mr. John Russell, Project Manager, BLM Rawlins Field Office, 1300 North Third Street, P.O. Box 2407, Rawlins, WY 82301-2407
- Website: <http://www.blm.gov/wy/st/en/info/NEPA/documents/rfo/lostcreek.html>



Making Effective Comments

- State a specific concern instead of making broad statements.
- Focus your comments on specific issues and provide supporting details.
- Identify important environmental and community concerns.



Proposed Action

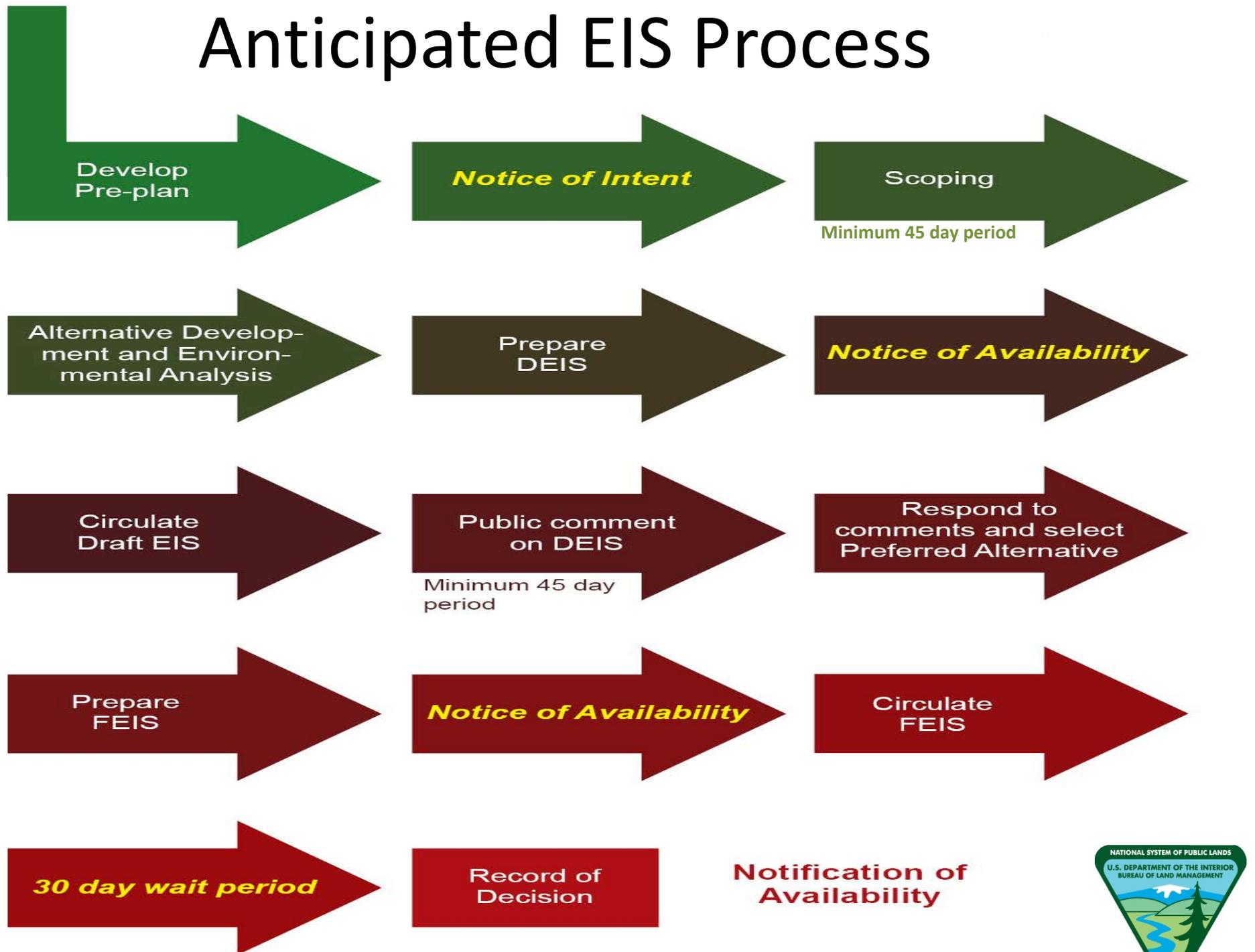
The applicant, Lost Creek ISR, LLC (LCI), a wholly owned subsidiary of Ur-Energy Inc., has requested to modify its Lost Creek Uranium *In Situ* Recovery Project, 43 CFR 3809 Plan of Operations, approved October 5, 2012.

Specific modifications requested include:

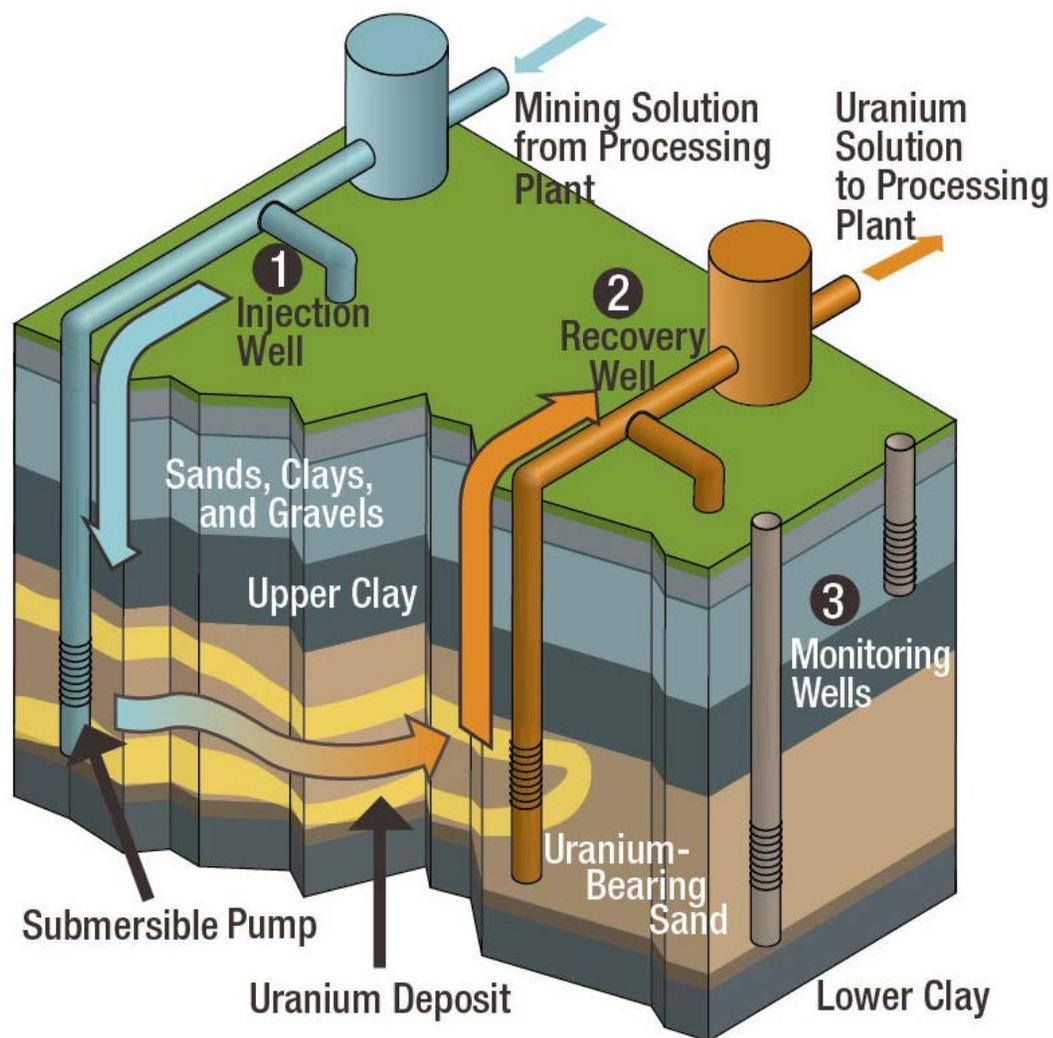
- Addition of the deeper KM horizon for *in situ* mining of uranium.
- An increase in the extent of mining in the existing HJ horizon within the existing project area.
- Addition of the Lost Creek East area, which would add 5,750 acres to the existing Lost Creek project area and include mining in both the KM and HJ horizons.
- Increasing the permitted production rate at the Central Processing Plant (CPP) from 1.0 to 2.2 million pounds of uranium concentrate (yellowcake) per year.
- Conforming the method of calculating excursion limits for consistency between regulatory agencies.



Anticipated EIS Process



The Uranium *In Situ* Recovery (ISR) Process



Injection wells (1) pump a chemical solution—typically groundwater mixed with sodium bicarbonate and oxygen—into the layer of the earth containing uranium ore. The solution dissolves the uranium from the deposit in the ground and is then pumped back to the surface through recovery wells (2) and sent to the processing plant to be processed into uranium concentrate. Monitoring wells (3) are checked regularly to ensure that affected groundwater is not escaping from the wellfield area.



Lost Creek Uranium In-Situ Recovery Project Modifications

LAND USE

LEGEND

- Town
- ★ Sweetwater Uranium Project (Existing Kennecott Uranium Company Conventional Mine and Mill) On Standby since 1983
- BLM or County Road
- Access Road
- County Boundary
- BLM Field Office Boundary
- Lost Creek ISR WDEQ/LOD Mine Permit No. PT788/ NRC License No. SUA-1598 Boundary
- Proposed Lost Creek East Amendment Boundary
- 5-Mile Buffer from Permit and Amendment Boundaries
- Grazing Allotment Boundary and Name
- Chain Lakes Wildlife Habitat Management Area
- Continental Divide National Scenic Trail

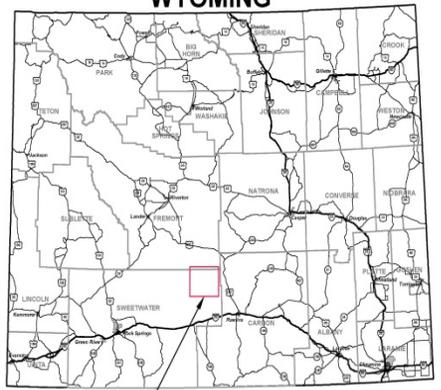
EXISTING AND PROPOSED MINE UNITS

- | | |
|------|-----------------------------|
| MU 1 | Perimeter Monitor Well Ring |
| MU 2 | RA 8 |
| RA 3 | RA 9 |
| RA 4 | RA 10 |
| RA 5 | RA 11 |
| RA 7 | RA 12 |

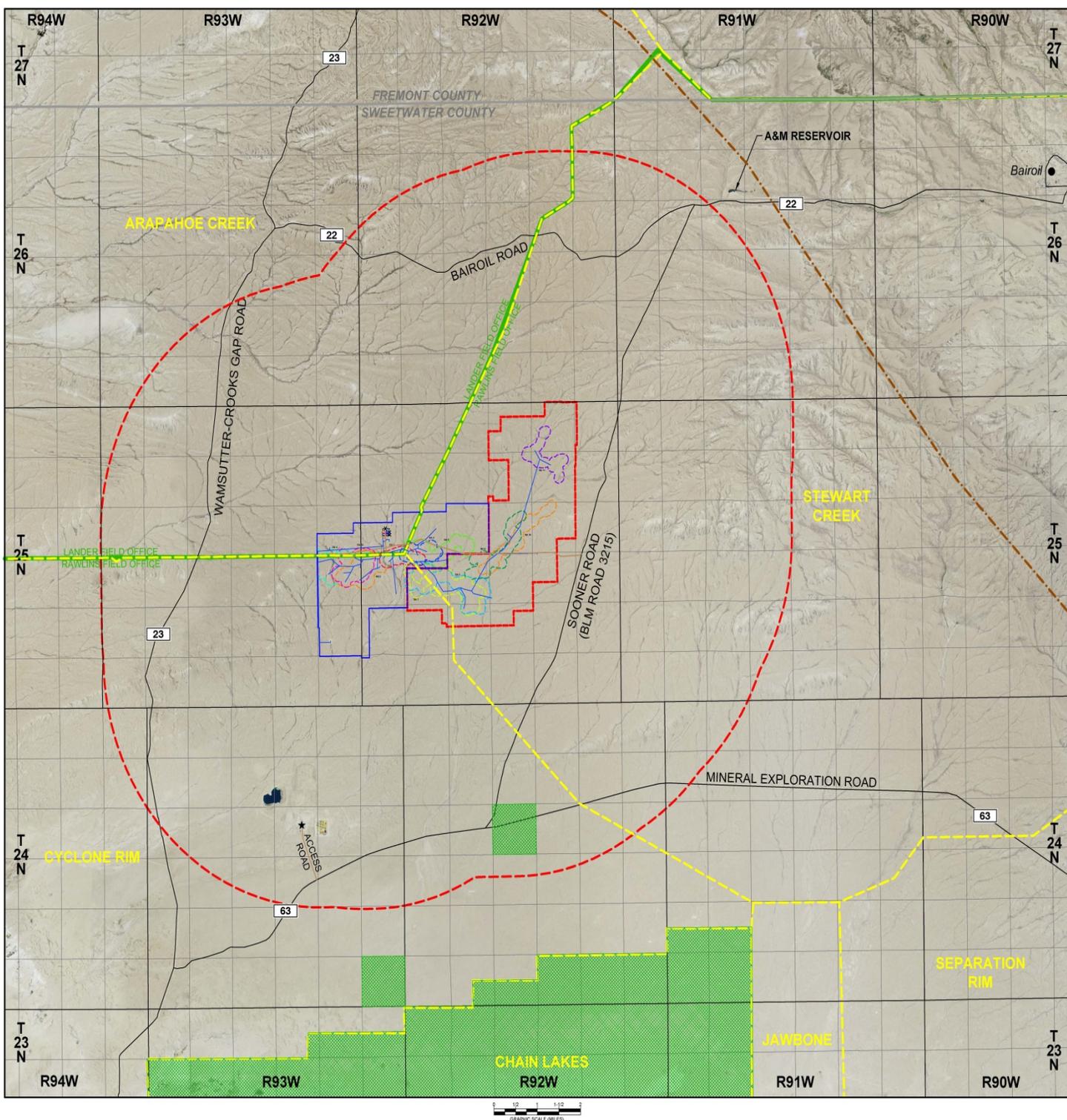


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PROJECT LOCATION MAP WYOMING

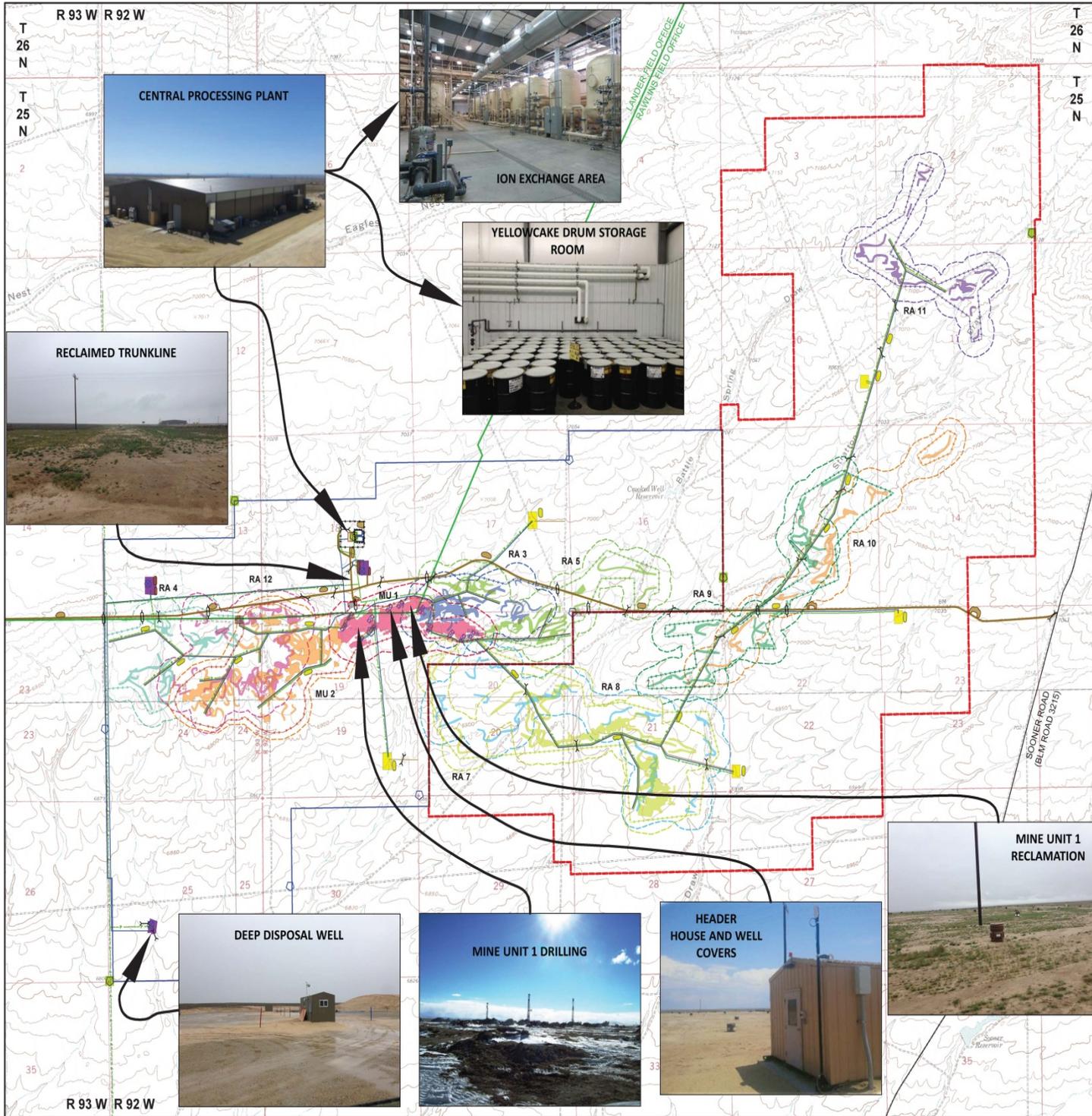


PROJECT AREA



Lost Creek Uranium In-Situ Recovery Project Modifications

SITE LAYOUT



LEGEND

- BLM or County Road
- BLM Field Office Boundary
- Lost Creek ISR WDE/LOD Mine Permit No. PT788/ NRC License No. SLA-1598 Boundary
- Proposed Lost Creek East Amendment Boundary

EXISTING AND PROPOSED FACILITIES

- Primary Access Road
- Secondary Access Road
- Pipeline
- Electric Line
- Fenceline
- Central Processing Plant
- Retention Pond
- Cattleguard
- Culvert
- Air Particulate Sampler
- Passive Radiological Sampler
- Topsoil Pile - Existing
- Topsoil Pile - Proposed
- Header House
- Staging Area
- Deep Disposal Well
- Deep Disposal Well Pad - Existing
- Deep Disposal Well Pad - Proposed

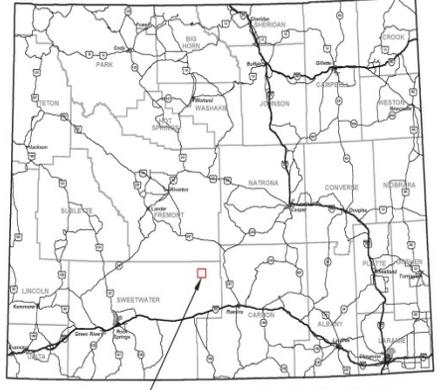
EXISTING AND PROPOSED MINE UNITS

- MU 1
- MU 2
- MU 3
- MU 4
- RA 5
- RA 7
- RA 8
- RA 9
- RA 10
- RA 11
- RA 12
- Perimeter Monitor Well Ring
- Fence
- Pattern Area

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PROJECT LOCATION MAP WYOMING



PROJECT AREA



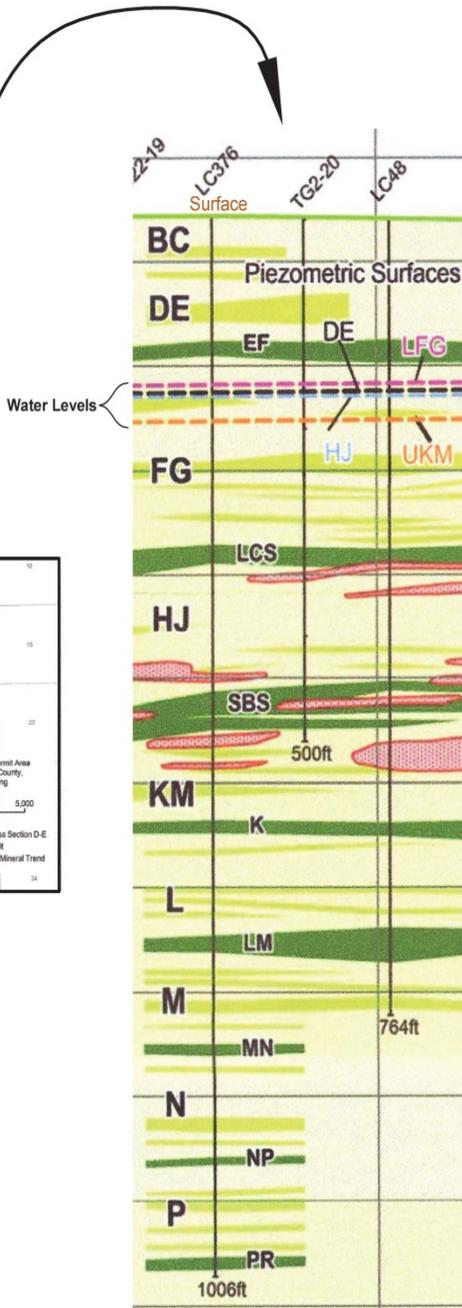
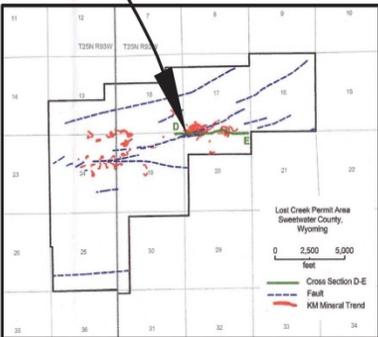
Base Map: USGS 1:24,000 Antelope Park, Colorado VAD, Battle Spring, Scooner Reservoir



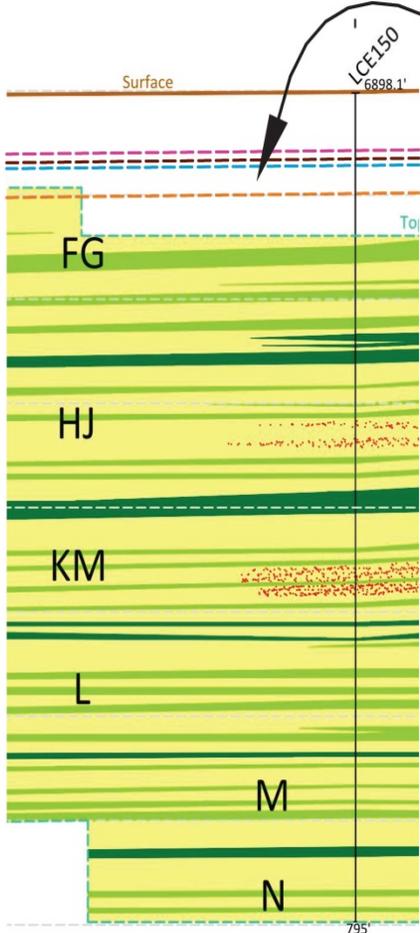
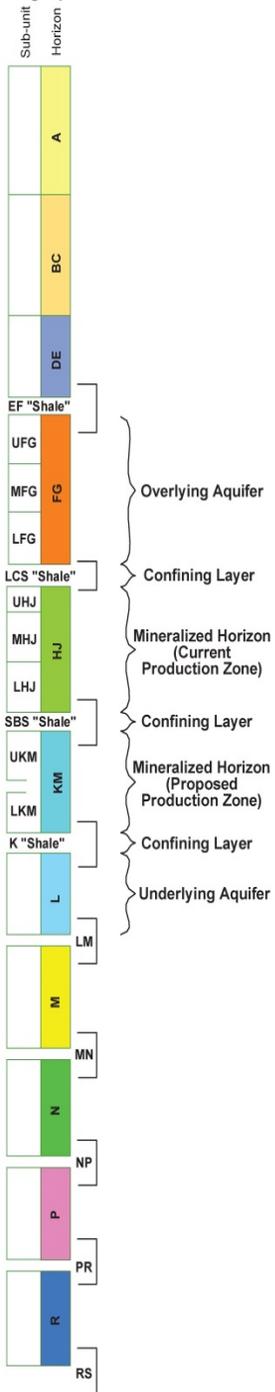
Lost Creek Uranium In-Situ Recovery Project Modifications

GEOLOGY AND HYDROSTRATIGRAPHY

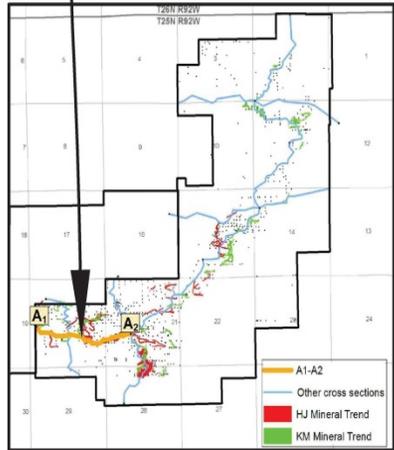
CROSS SECTION D-E



Lost Creek and Lost Creek East Projects Stratigraphic Column



CROSS SECTION A₁-A₂



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Lost Creek Uranium In-Situ Recovery Project Modifications

SURFACE OWNERSHIP

LEGEND

- Town
- ★ Sweetwater Uranium Project (Existing Kennecott Uranium Company Conventional Mine and Mill) On Standby since 1983
- BLM or County Road
- County Boundary
- BLM Field Office Boundary
- Lost Creek ISR WDEQ/LOD Mine Permit No. PT788/ NRC License No. SUA-1598 Boundary
- Proposed Lost Creek East Amendment Boundary

SURFACE OWNERSHIP

- Bureau of Land Management
- State of Wyoming
- Wyoming Game & Fish Department
- Private

EXISTING AND PROPOSED MINE UNITS

- | | |
|------|-----------------------------|
| MU 1 | Pattern Area |
| MU 2 | Perimeter Monitor Well Ring |
| RA 3 | RA 8 |
| RA 4 | RA 9 |
| RA 5 | RA 10 |
| RA 7 | RA 11 |
| | RA 12 |

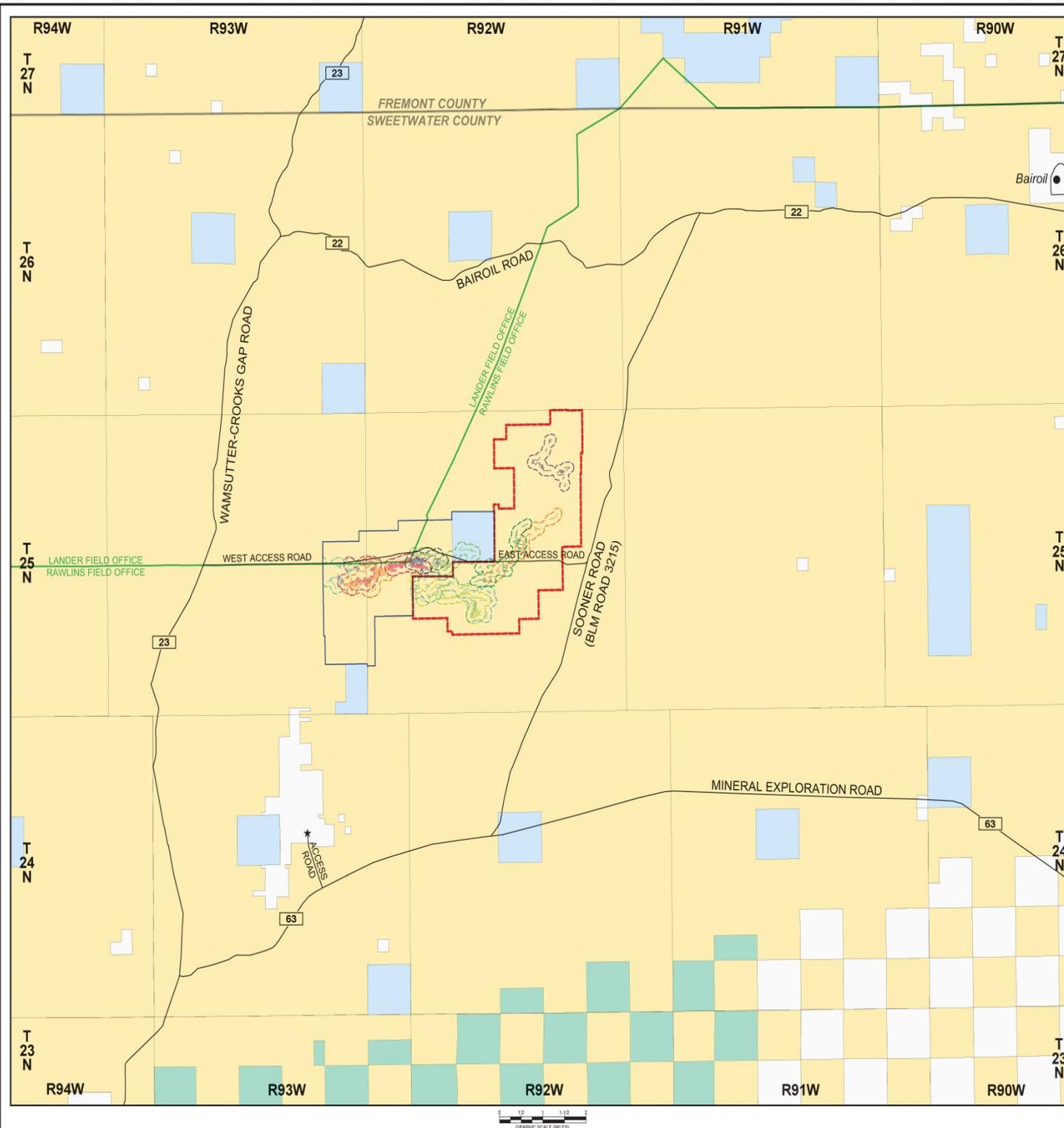


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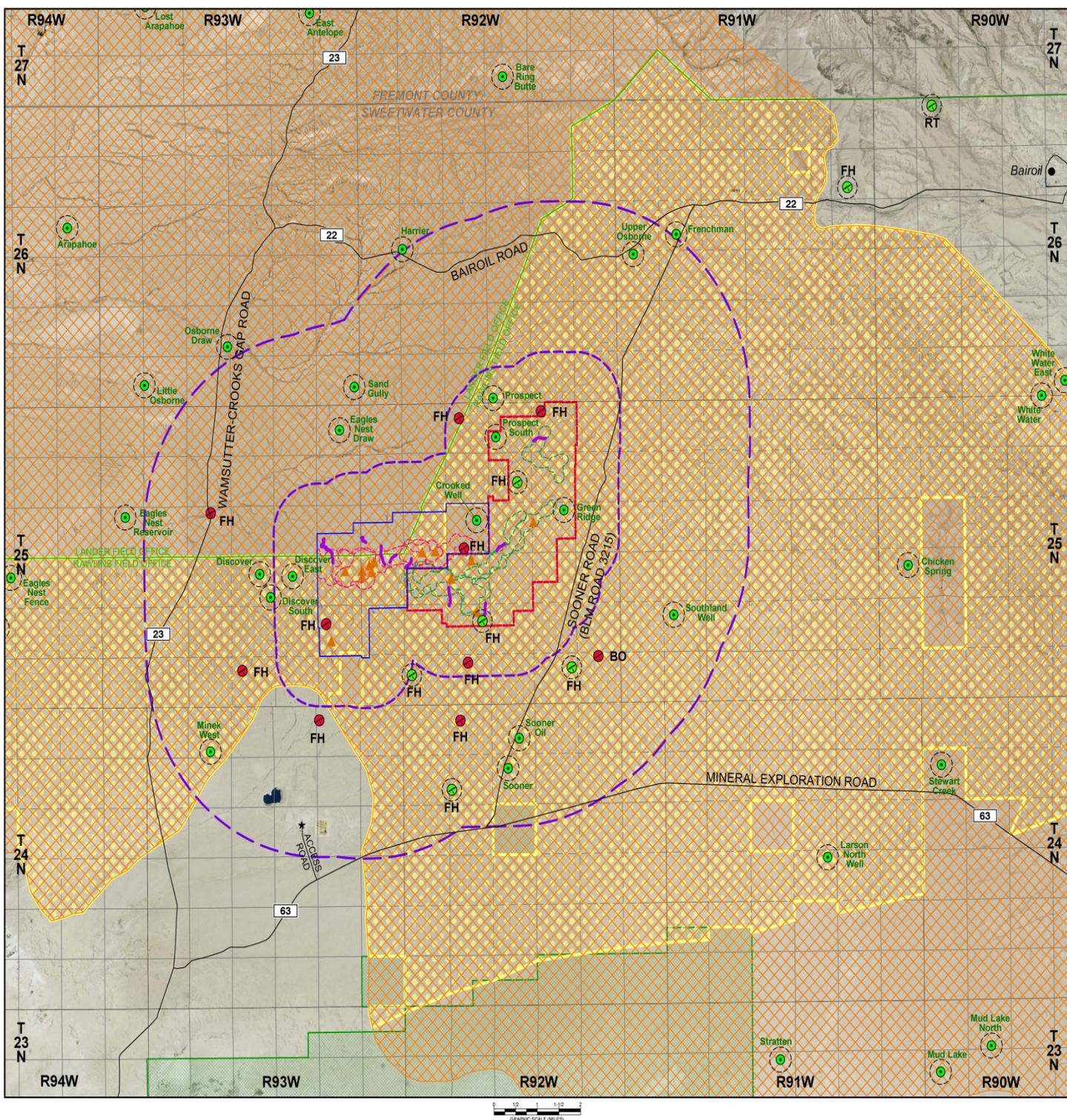
PROJECT LOCATION MAP WYOMING



PROJECT AREA



Lost Creek Uranium In-Situ Recovery Project Modifications WILDLIFE MAP



LEGEND

- Town
- Sweetwater Uranium Project
- ★ Existing Kennecott Uranium Company Conventional Mine and Mill On Standby since 1993
- BLM or County Road
- County Boundary
- BLM Field Office Boundary
- Lost Creek ISR WDEQ/LDD Mine Permit No. PT788/ NRC License No. SUA-1598 Boundary
- Proposed Lost Creek East Amendment Boundary

EXISTING AND PROPOSED MINE UNITS

- Existing Mine Unit
- Proposed Mine Unit

WILDLIFE

- Wildlife Survey Area (1-mile Buffer)
- Sage Grouse Survey Area (4-mile Buffer)
- Sage Grouse Core Area
- Chain Lakes Wildlife Habitat Management Area
- Sagebrush Focal Area

- Occupied Sage Grouse Lek Location and 1/4-mile No Surface Occupancy (NSO) Buffer
- Active Raptor Nest Location and NSO Buffer (1,200 ft for FH, 850 ft for all others)
- Historical Raptor Nest Location
- ▲ Confirmed Wyoming Pocket Gopher Location
- Suspected Pygmy Rabbit Location

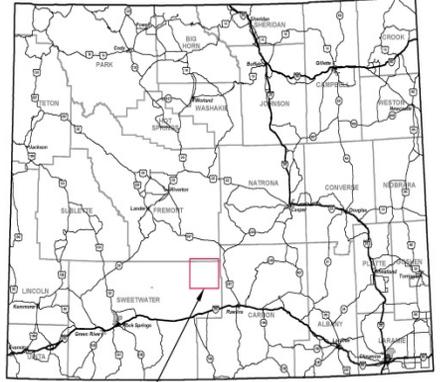
RAPTOR DESIGNATIONS

- BO Burrowing Owl
- FH Ferruginous Hawk
- RT Red-tailed Hawk



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PROJECT LOCATION MAP WYOMING



PROJECT AREA

