

Uranium Mining &
Milling Legacy
Cleanup



Radioactive & Hazardous Materials Committee Meeting

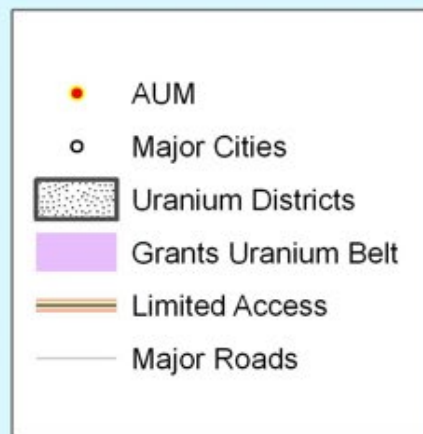
November 14, 2022

Jerry Schoeppner - Director
Clint Chisler - Uranium Reclamation Coordinator

Mining and Minerals Division
Energy, Minerals, and Natural Resources Department

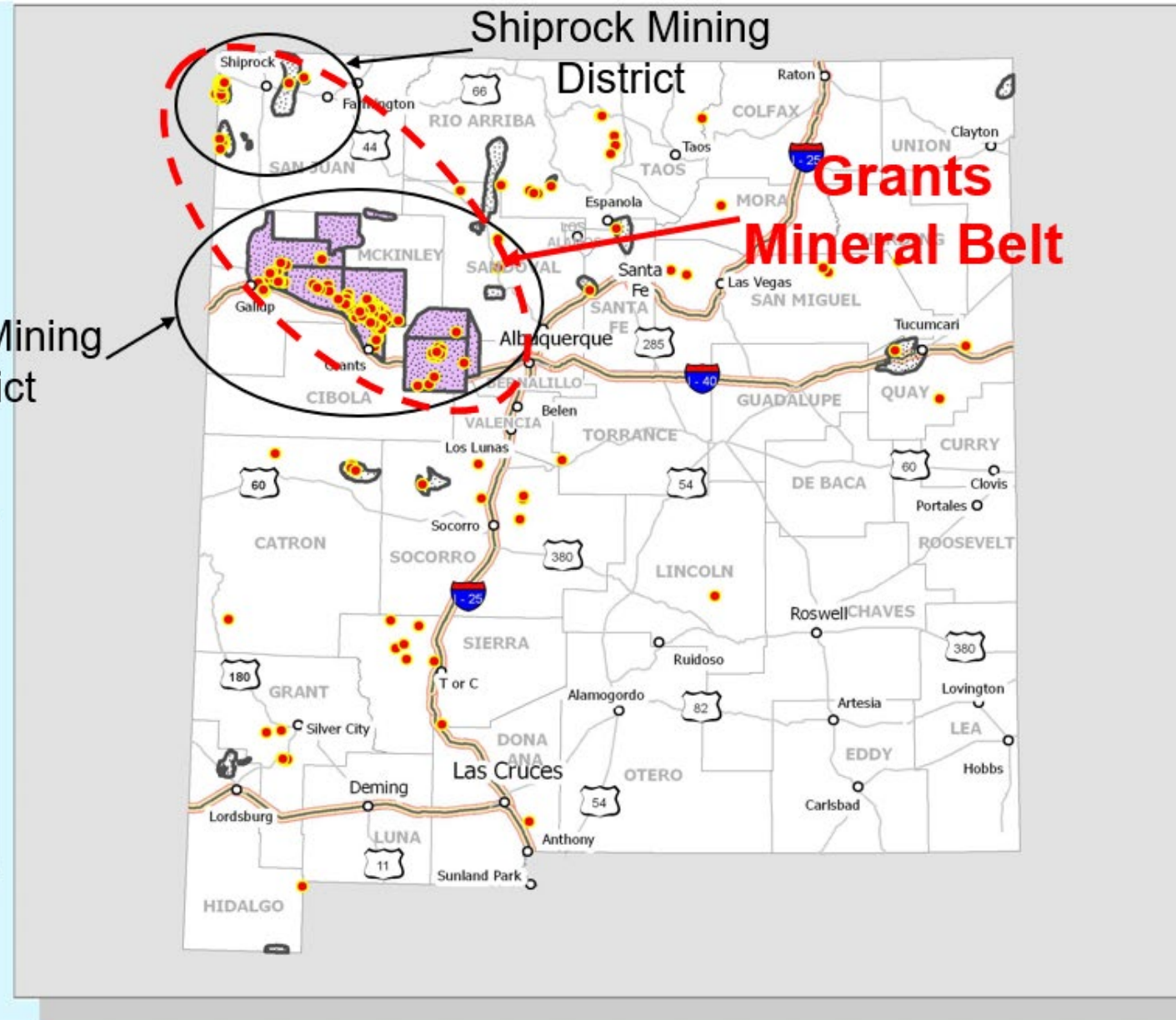
New Mexico Grants Uranium Belt and State-wide Distribution of Abandoned Uranium Mines (AUM)

Grants Mining
District

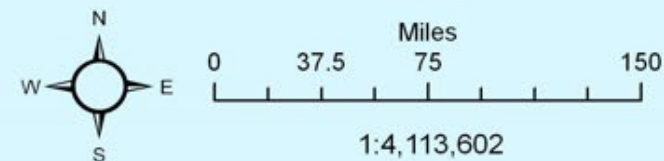


Created by New Mexico
Mining & Minerals Division
for NM Environment Dept,
January 2009

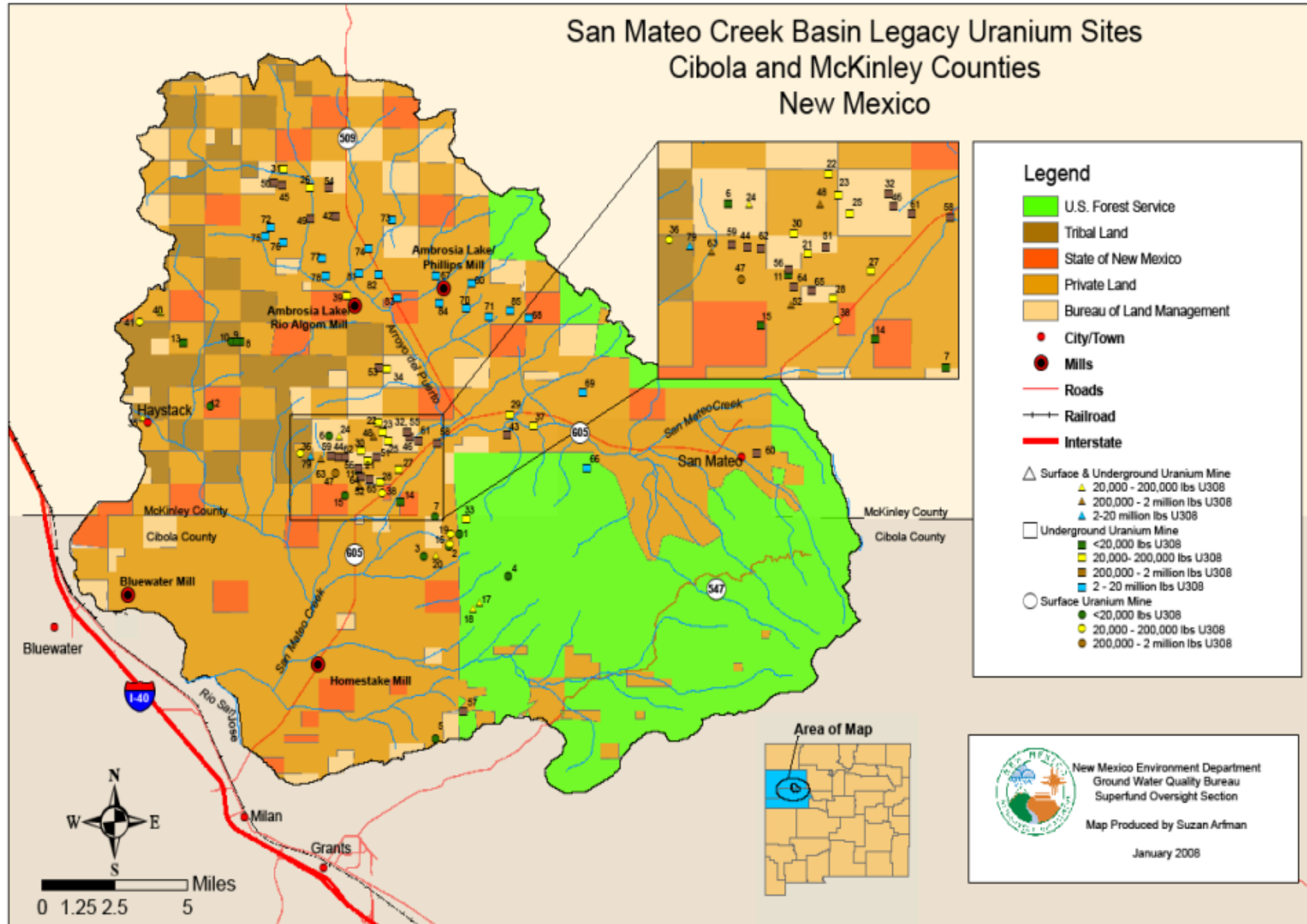
North American Datum 83
Universal Transverse Mercator
NM Zone 13



Data:
Mining & Minerals Div. (NM Energy, Minerals & Nat. Res. Dep.),
New Mexico Bureau of Geology and Mineral Resources;
New Mexico Resource GIS Program (<http://rgis.nm.edu>)



San Mateo Creek Basin Legacy Uranium Sites Cibola and McKinley Counties New Mexico



Total - 259
 Federal - 65
 BLM: 41
 USFS: 22
 USF&W - 2
 State - 7

 Private - 76

 Tribal - 96

 Mixed - 15

History of the GMD

1940's-2002's: GMD was the major uranium producing region in the US

- Most activity between 1950's through 1980's
- 300 million+ pounds of uranium produced – mostly from McKinley/Cibola counties (152)
- Mostly underground operations, few open pit (St. Anthony, Jackpile)
- Mostly dry mines (210 dry, 49 wet)

Most activity occurred prior to any environmental regulations

1972: Clean Water Act

1974: NM Water Quality Act

1978: NM WQCC Regulations

1993: NM Mining Act

x MAS/MILS Uranium Mines

Km
500



Source of Mine Information:
EPA Uranium Location Database



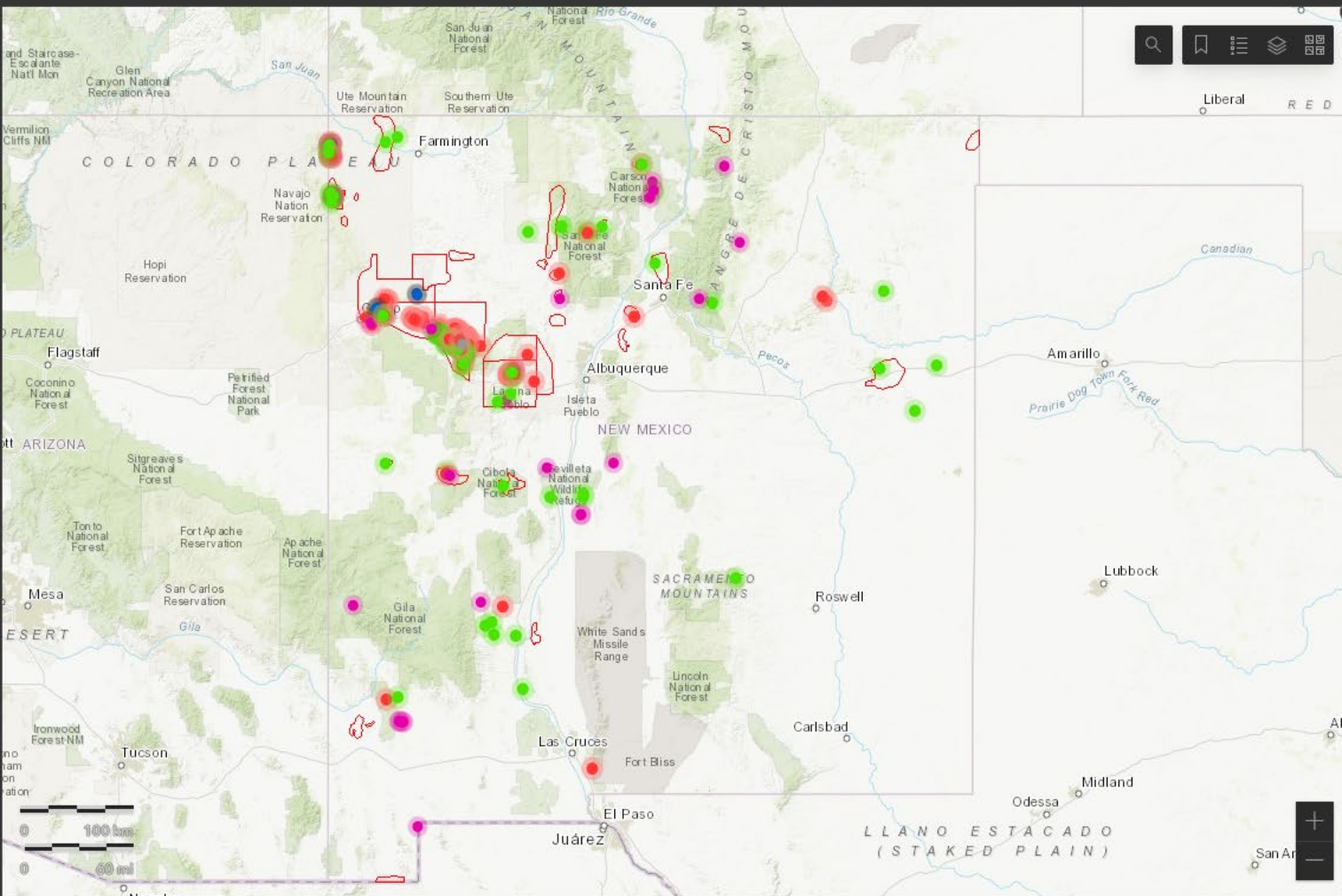
New Mexico Uranium Mines Dashboard

Mining & Minerals Division, compiled 2006- 2010

Locate a selected mine on the...
State Extent

Uranium Mines viewed in Map Extent

- Abo
MARF Permit: NA
- Agua Torres
MARF Permit: NA
- Alongo
MARF Permit: NA
- Alpine
MARF Permit: NA
- Alta
MARF Permit: NA
- Ann Lee
MARF Permit: MK027PR
- Baby
MARF Permit: NA
- Barbara J No. 1
MARF Permit: NA
- Barbara J No. 2
MARF Permit: NA
- Barbara J No. 3
MARF Permit: NA
- Beacon Hill
MARF Permit: NA
- Beacon Hill Gossett
MARF Permit: NA
- Bear Canyon Group
MARF Permit: NA
- Becenti
MARF Permit: NA
- Becky
MARF Permit: NA
- Beclabito
MARF Permit: NA

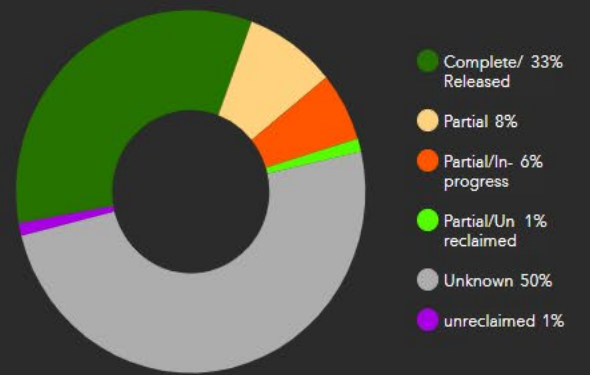


Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS | New Mexico Bureau of Geology and Mineral Resources; New Mexico Institute of Mining and Technology

Powered by Esri

Click on pie chart slice for the list of mines in left panel. Click off to de-select.

% Mines by 2020 Reclamation Status (260 total)



Reclm Status

Mining Method

Mines Reclaimed or Released



List of Mines

260
based on map extent

Dashboard [Link to User Guide](#)

Location accuracy disclaimer- not all spatial locations have been validated.

New Mexico uranium mine and legacy uranium mine (LUM) inventories were initiated in 2006 and supplemented through 2010. The purpose was to identify the extent and magnitude of the occurrence of uranium mines in New Mexico, especially those mines that have not been previously addressed by a tribal, federal, or state entity. These mines are prospects or property that produced or was developed to produce uranium. These mines are all, in effect, legacy mines and include mines that had verifiable uranium production, and that have been deposited, are no longer

Download NM Uranium Mine Data (KMZ) from link:
https://gis.emnrd.state.nm.us/content/MMD/geofit e/NM_Umines.zip

MMD has withheld production data information pursuant to the provisions of Section 71-2-8 NMSA 1978.

Uranium Reclamation Coordinator Positions

- Uranium coordinator positions for EMNRD/MMD & NMED created by 2022 Legislation
- EMNRD/MMD position filled 10/15/2022
- Responsibilities under legislation/NMED Responsibilities
 - Coordinate cleanup
 - Develop strategic plan
 - Develop plan for consultation/coordination with stakeholders
 - Industry
 - Update AUM database
 - Report annually to this committee on progress
- EMNRD Responsibilities
 - coordinate the department's uranium mine and mill site reclamation activities and effectively collaborate and engage with the department of environment

Uranium Reclamation Coordinator Positions

- Anticipated Tasks
 - Identify known sites and determine reclamation status - State or Federal action
 - Determine known sites not being addressed under any regulatory framework
 - Conduct site reconnaissance, assessment, and update of AUM Database
 - Update database on any planned, proposed, or on-going uranium reclamation activity
 - Coordinate activities with:
 - Federal Agencies: NRC, DOE, USFS, BLM, EPA Regions 6 and 9
 - State Agencies: NMED, NMSLO
 - NGOs
 - Tribes

Objective:
To position New
Mexico as a national
leader in energy and
natural resources
management.



Thank you

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<https://www.emnrd.nm.gov/>