Navajo Abandoned Uranium Mine Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits and pits. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites lands not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands but that are or may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, to record all immediate site information associated with the mine site and to document the recommendation and/or decision on what additional steps, if any, are needed at the site.

Kermac No. 10

Navajo AUM Eastern Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.496.1111

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Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 359

Map ID: E58

CERCLIS: NOT ASSIGNED

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0048

New Mexico Bureau of Geology and Mineral Resources: NMMK0175

Local name / Aliases: Section 10, Regomax, Ambromex, Buffalo, Kermac Section 10, Kerr McGee

New Mexico MMD District: Ambrosia Lake

Lat/Long: 35.4561340439 N / -107.876102801 W

Nearby road and highway: Ambrosia Lake Rd / NM-509 **Local Post Office:** Prewitt, NM

Land Status: check one or more and provide ownership and contact information below

Tribal Trust Land	☐
Tribal Fee Land	☐
Allotment	☐
Fee land	☐
Public lands	☐
Private	☒
Bureau of Land Mgmt	☐
State	☐

Ownership and contact information:

The mine site property is classified as private land. New Mexico MMD identifies the surface and mineral rights owner as Cobb Resources as well as the Bureau of Land Management. Due to locked gates and private property, Weston was unable to access the mine site.

Part II Site Observations

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None **200 feet to 0.25 mile:** None

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None **0.25 miles to 4 miles:** None

Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

Known Site History: include information from interviews with Chapter officials and residents.
Note information on mine ownership, period of operation, and type of mining operation.

Kermac No. 10 mine consists of a surface area of 66,695.61 square meters, with an additional 29,193.93 square meters of underground workings. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear. The New Mexico Mining and Minerals Division identified the operator in 1957 as Patten & Galassini, who suck the initial shaft; 1957-1969 as Kermac Nuclear Fuels Corp.; 1959-1962 as S & A Mining Co.; 1964 as Homestake-Sapin Partners; 1979 as July Cobb, who starts to renter shaft; and 1980-81 as Cobb (stockpile production only).

Part III Type, number and reclamation status of mine features

Provide description and reclamation status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all reclamation caps.

Reclamation status of the mine site is currently unknown. Due to locked gates and private property, Weston was unable to access the mine site. According to the New Mexico Mining and Mineral division, the shaft was secured with wire mesh fence by 1980.

Part IV Summary of radiological readings

Note: Due to locked gates and private property, Weston was unable to access the mine site.

Background Locations - None

Mine site: Kermac No. 10
- See Figure 1

Nearby Structure Perimeter – None

Describe any other radiological measurements:

Radiological measurements collected for the New Mexico Mining and Minerals Division during a 2008 field screening survey found gamma radiation levels in the shaft at 400 counts per second (cps) with a high of 900 cps; in the dump at 400-700 cps; and the ventilation shaft air at greater than 6,000 cps.

Part V Site sketch of all mine features and readings, including locations of all structures, sources of potential drinking water and any other important features and radiological readings.

Presented in Figure 1

Part VI Response Action Summary

Site Name(s): Kermac No. 10 **New Mexico MMD District:** Ambrosia Lake

Decision Criteria

Is there an unreclaimed waste pile at the site? None observed

At what distance from the waste pile is the nearest residential structure located? N/A

At what distances from the waste pile are there potential drinking water sources? N/A

Is there a reclamation cap or sealed adit in place at the site? None observed

Is the cap/seal functionally intact? N/A

Is the cap/seal sufficiently degraded to create a concern about releases? N/A

At what distance from the cap/seal is the nearest domestic structure located? N/A

At what distance from the cap/seal is the nearest potential drinking water source? N/A

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

Reclamation status of the mine site is currently unknown

Part VII Photos

Photo 1. Locked gate on road leading towards Kermac No. 10 mine site

Part VIII Contacts Reports and Information

Name Susan A. Lucas Kamat

Title or official role (if any) AUM Data Manager – New Mexico Mining & Mineral Division

Telephone number (505) 476-3408 fx: (505) 476-3408

Information provided Background information and findings from 2008 New Mexico MMD Survey of mining sites.

Name Dana Bahar

Title or official role (if any) Manager, Superfund Oversight Section

Ground Water Quality Bureau, New Mexico Environment Department

Telephone number (505) 827-2908

Information provided General Background Information

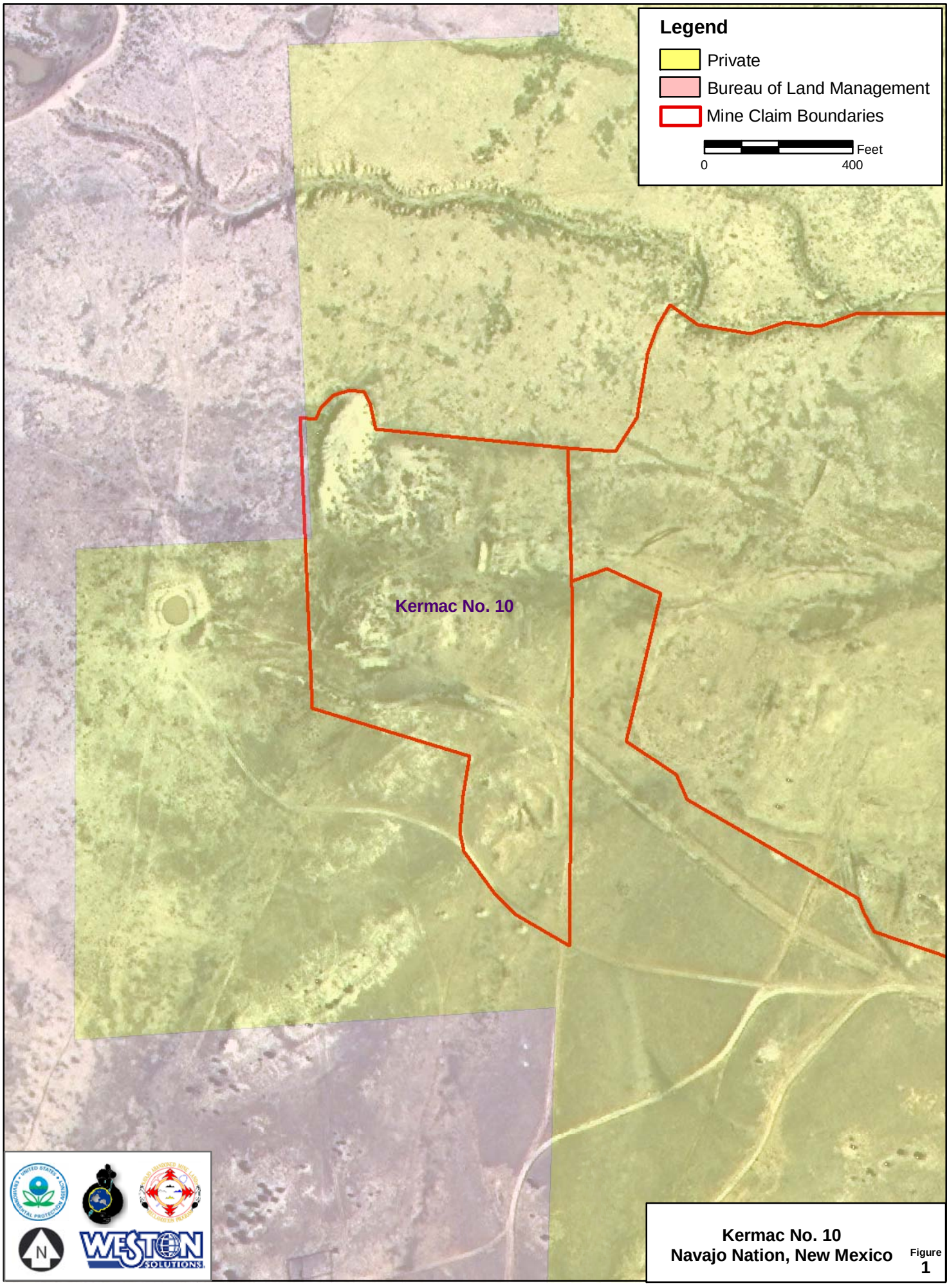
Name Mary Ann Menetrey

Title or official role (if any) Manager, Mining Environmental Compliance Section

Ground Water Quality Bureau, New Mexico Environment Department

Telephone number (505) 827-2944

Information provided General Background Information



Kermac No. 10
Navajo Nation, New Mexico

Figure
1