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, pits and waste piles. 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 not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that 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, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: **Jack Daniels No. 5**Mine ID: **545**

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

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Part I **Site Identification, Location and Status** Site Names and ID numbers as applicable **Mine ID:** 545 Map ID: W33 **CERCLIS:** NNN000909243 Navajo Abandoned Mine Land Reclamation Program: NA-0124a **Local name / Aliases:** Jack Daniels #5 **Chapter and local area:** Coalmine Mesa **County:** Coconino **State:** Arizona Lat/Long: 35.9056668329 N / -111.403234633 W Local Post Office: Tuba City, AZ Nearby road and highway: US-89 Surface Land Status: check one or more and provide ownership and contact information below **Tribal Trust Land Public lands Private Tribal Fee Land Bureau of Land Mgmt Allotment** Fee land State **Subsurface Mineral Rights:** No information on subsurface mineral rights ownership was found in the EPA/AUM Database. **Claim and operator information:**

The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Page P. Blackmore in 1963. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 545

Highest gamma radiation measurement: 19,688 counts per minute (cpm)

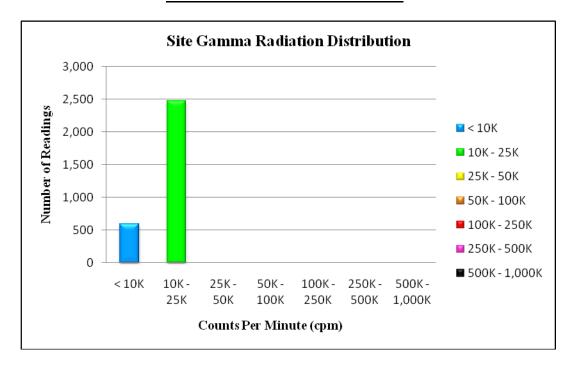
Background Average: 15,017 cpm **Two Times Background:** 30,034 cpm

Describe any other radiological measurements:

A total of 3,072 gamma radiation measurements were collected from the mine site, ranging from 5,878 cpm to 19,688 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics	
Number of Readings	3,072
Minimum (cpm)	5,878
Maximum (cpm)	19,688
Mean (cpm)	12,261
Median (cpm)	12,702
Standard Deviation	2,453



Part III Status of Reclamation and Mine Waste

Mine ID: 545

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0124a

NAMLRP Mine features: None

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and 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 caps.

Observed reclamation work and status:

Adits:

None observed

Waste Piles:

None observed

Pits:

None observed

Shafts:

None observed

Other Debris and Mine Features:

None observed

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from mine):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

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

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None observed

0.25 miles to 4 miles: Seasonal tributary to Little Colorado River approximately 1.5 mi W of site, Little Colorado River approximately 2 mi S of site

Sensitive Environments (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 (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Jack Daniels No. 5 mine claim consists of an area of 62,066.61 m². The mine was identified as being operational in 1963. While operational, the mine had a total reported production volume of 322 tons. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Page P. Blackmore in 1963. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity?

Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

No

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos



Photo 1: Mine Site #545



Photo 2: Mine Site #545

Part VII Contacts Reports and Information

Name:	Eugene Esplain
Title or official role (if any):	Navajo EPA Superfund Program
Telephone number:	(928) 871-7331
Address:	PO Box 2946, Window Rock, AZ 86515
Information provided:	Lead Regulatory Agency
Name	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	
Name:	
Title or official role (if any):	
Telephone number:	
Address:	
Information provided:	

