

# 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: NA-0750**

**Mine ID: 89**

**Navajo AUM Southern Region**

**Prepared by:**

**Weston Solutions, Inc.**

**Contract: W91238-06-F-0083**

**20074.063.039.0020**

**April 2012**

**Part I Site Identification, Location and Status**

**Site Names and ID numbers as applicable**

**Mine ID:** 89

**Map ID:** S5

**CERCLIS:** NNN000909313

**Navajo Abandoned Mine Land Reclamation Program:** None

**Local name / Aliases:** None

**Chapter and local area:** Teesto

**County:** Navajo

**State:** AZ

**Lat/Long:** 35.4543705964 N / -110.376528251 W

**Nearby road and highway:** Indian Route 60

**Local Post Office:** Dilkon, AZ

**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**

**State**

**Fee land**

**Subsurface Mineral Rights:**

No information on subsurface mineral rights ownership was found in the EPA/AUM Database.

**Claim and operator information:**

No historical ownership / lease information or documents were identified in the EPA / AUM database.

**Number of residential structures within 200 feet of mine:** None

## Part II Summary of Radiological Readings

**Mine ID: 89**

**Highest gamma radiation measurement:** 41,443 counts per minute (cpm)

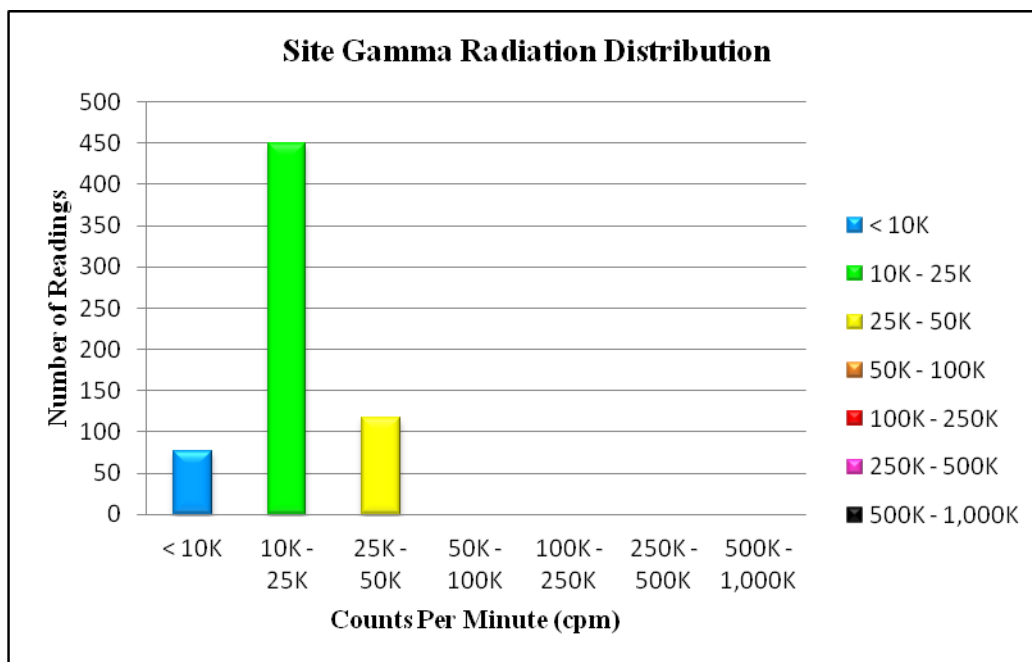
**Background Average:** 9,108 cpm      **Two Times Background:** 18,216 cpm

**Describe any other radiological measurements:**

A total of 642 gamma radiation measurements were collected from the mine site, ranging from 7,236 cpm to 41,443 cpm. Maximum levels of approximately 40,000 cpm were found near the reclamation cap. The measurements are represented in Figures 1 and 2.

**Distribution Chart and Statistics:**

<b>Site Gamma Radiation Statistics</b>	
Number of Readings	642
Minimum (cpm)	7,236
Maximum (cpm)	41,443
Mean (cpm)	17,756
Median (cpm)	16,356
Standard Deviation	6,891



### **Part III Status of Reclamation and Mine Waste**

**Mine ID: 89**

**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-0750**

**NAMLRP Mine features: 1 Prospect**

---

**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:**

Possible reclamation cap area

## **Part IV Site Observations and Environs**

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

**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:** None Observed

### **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 NA-0750 mine claim consists of an area of 840 m<sup>2</sup>. 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?**

Yes

#### ***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?**

No

#### ***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 #89



**Photo 2**

Mine Site #89



**Photo 3**

Mine Site #89



**Part VII      Contact 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: \_\_\_\_\_

Title or official role (if any): \_\_\_\_\_

Telephone number: \_\_\_\_\_

Address: \_\_\_\_\_

Information provided: \_\_\_\_\_

---

Name: \_\_\_\_\_

Title or official role (if any): \_\_\_\_\_

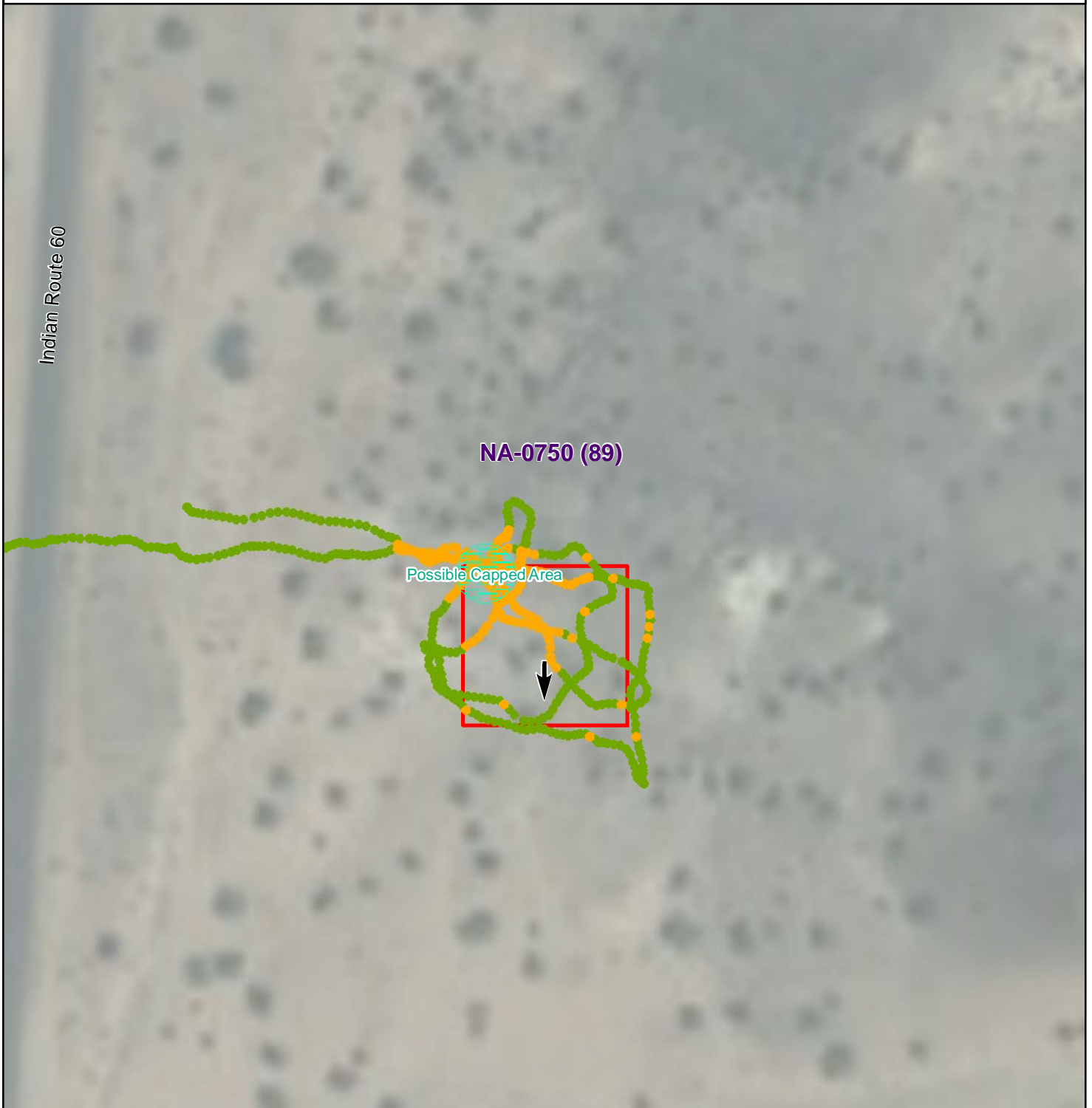
Telephone number: \_\_\_\_\_

Address: \_\_\_\_\_

Information provided: \_\_\_\_\_

---

**Figure 1 - Gamma Radiation Measurements, Above Two Times Background  
NA-0750 (89)  
Teesto Chapter, Navajo Nation**



**Gamma Radiation Measurements**


- < 2X Background
- > 2X Background

Measured as counts per minute (cpm)

Average background 9,108 cpm

- Mine Site Boundary
- General Slope Direction
- Observed Reclamation Feature
- Observed Waste Rock
- Observed Structure
- > Observed Adit





  


**Figure 2 - Gamma Radiation Measurements  
NA-0750 (89)  
Teesto Chapter, Navajo Nation**



**Gamma Radiation Measurements**

- 0 - 10,000 cpm
- 10,000 - 25,000 cpm
- 25,000 - 50,000 cpm
- 50,000 - 100,000 cpm
- 100,000 - 250,000 cpm
- 250,000 - 500,000 cpm
- 500,000 - 1,000,000 cpm

-  Mine Site Boundary
-  General Slope Direction
-  Observed Reclamation Feature
-  Observed Waste Rock
-  Observed Structure
-  Observed Adit

**Average background 9,108 cpm**

**Measured as counts per minute (cpm)**