

NAMLRP Abandoned Uranium Mine Project Areas



Data format: Shapefile

File or table name: NN_AUM_Project_Sites

Coordinate system: Geographic

Theme keywords: Navajo Abandoned Mine Lands Reclamation Program, Abandoned Uranium Mines, Reclamation Project Boundary

Abstract: This polygon shapefile locates the Navajo Abandoned Mine Lands Reclamation Program (NAMLRP) Project Areas within the Navajo Nation that are associated with abandoned uranium-vanadium mines. Mine site locations and types were identified by the Navajo Abandoned Mine Lands Reclamation Program (NAMLRP). Five (5) attributes provide information about each project area. Attributes include: ID, AML Project ID, source of the project area polygon and ID, comments about the project area, and reclamation project name for the project area.

FGDC and ESRI Metadata:

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- [Entity and Attribute Information](#)
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Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with green text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: Navajo Abandoned Mine Lands Reclamation Program (NAMLRP)

Title:

NAMLRP Abandoned Uranium Mine Project Areas

***File or table name:** NN_AUM_Project_Sites

Publication date: Unpublished Material

Edition: June 25, 2004

***Geospatial data presentation form:** vector digital data

Publication information:**Publication place:** Window Rock, AZ**Publisher:** Navajo Abandoned Mine Lands Reclamation Program***Online linkage:**\\Terra_dc\Navajo\NAUM_NN_Summary\DB\AUM\NN_AUM_Project_Sites.shp**Description:****Abstract:**

This polygon shapefile locates the Navajo Abandoned Mine Lands Reclamation Program (NAMLRP) Project Areas within the Navajo Nation that are associated with abandoned uranium-vanadium mines. Mine site locations and types were identified by the Navajo Abandoned Mine Lands Reclamation Program (NAMLRP). Five (5) attributes provide information about each project area. Attributes include: ID, AML Project ID, source of the project area polygon and ID, comments about the project area, and reclamation project name for the project area.

Purpose:

This project areas polygon shapefile was developed for and is maintained by the Navajo Nation Abandoned Mine Lands Reclamation Program (NAMLRP). It is intended to document the locations and information about project areas that contain abandoned uranium mine sites within the Navajo Nation.

Language of dataset:** en**Time period of content:*Time period information:****Single date/time:****Calendar date:** 2004**Currentness reference:**

publication date

Status:**Progress:** In work**Maintenance and update frequency:** As needed**Spatial domain:****Bounding coordinates:*****West bounding coordinate:** -111.640152***East bounding coordinate:** -108.525546***North bounding coordinate:** 37.258477***South bounding coordinate:** 35.454242**Local bounding coordinates:*****Left bounding coordinate:** -111.640152***Right bounding coordinate:** -108.525546***Top bounding coordinate:** 37.258477***Bottom bounding coordinate:** 35.454242**Keywords:****Theme:****Theme keywords:** Navajo Abandoned Mine Lands Reclamation Program, Abandoned Uranium Mines, Reclamation Project Boundary**Theme keyword thesaurus:** None

Place:**Place keywords:** Navajo Nation, Arizona, New Mexico, Utah, United States of America**Place keyword thesaurus:** None**Access constraints:** Access to this shapefile requires written permission of the Navajo Nation Abandoned Mine Lands Reclamation Program.**Use constraints:**

This NAMLRP Abandoned Uranium Mines project areas data set identifies features within the Navajo Nation. Its use is appropriate for scales of 1:24,000 and smaller.

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

The data are provided "as-is," without warranty of any kind, either express or implied.

These data have been compiled as part of a desktop project to collect existing spatial data to support the study of Navajo abandoned uranium mines. No field verifications were undertaken as part of this desktop study.

Point of contact:**Contact information:****Contact organization primary:****Contact organization:** Navajo Abandoned Mine Lands Reclamation Program (NAMLRP)**Contact address:****Address type:** mailing address**Address:**

P.O. Box 1875

City: Window Rock**State or province:** AZ**Postal code:** 86515**Country:** USA**Contact voice telephone:** 928-871-6982**Contact facsimile telephone:** 928-871-7190**Data set credit:**

This dataset was created under funding from the U.S. Army Corps of Engineers (USACE) Western Region Restoration of Abandoned Mine Site (RAMS) Program, Contract No. DACW09-02-D-0020 Task 0002, and Navajo Nation Contract No. C23518 for the Navajo Abandoned Mine Lands Reclamation Program

Security information:**Security classification system:** None***Native dataset format:** Shapefile***Native data set environment:**

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.780

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Data Quality Information:

Attribute accuracy:**Attribute accuracy report:**

Project Area identifiers were checked amongst the primary sources as identified by the SOURCES Skey and agasint the AML Reclamation Project Technical Specifications.

No field inspections were performed to verify these data.

Logical consistency report:

Data was visually inspected for consistency with source maps and data. Inspection included location and AML project number. No field inspections were performed to verify these data. These data were visually inspected by Melvin Yazzie (NAMLRP).

Completeness report:

This NAMLRP Abandoned Uranium Mines project areas data set identifies features within the Navajo Nation. Its use is appropriate for scales of 1:24,000 and smaller.

Positional accuracy:**Horizontal positional accuracy:****Horizontal positional accuracy report:**

The Navajo Abandoned Mine Lands Reclamation Program (NAMLRP) prepared a sets of 7.5 minute USGS topographic maps for the Navajo Nation with project areas located and identified. Within the Cameron Problem Area most Project Areas are delineated by differentially corrected GPS data. Only a few Project Areas in Monument Valley are delineated by differentially corrected GPS data. When AML Reclamation Project Technical Specification Maps or other pertinent maps were available were used to check project area boundaries. Where this resulted in changes to the project area boundary the source is noted in the SOURCE field. When necessary additional notes were entered in the COMMENTS field.

No field inspections were performed to verify these data.

Lineage:**Process step:****Process description:**

The NAMLRP project areas primarily were automated from paper maps, generated from differentially corrected GPS data, were estimated from AML Reclamation Technical Specifications maps or other pertinent maps, or developed by buffering mine site features.

Differentially corrected GPS data was used to delineate project area boundaries. This data was used as the primary source. The SOURCE field identifies the Skey for the GPS data and the COMMENT field notes the Trimble *.cor filename.

Maps were scanned to TIFF, Grey Scale, 400dpi. Scans were georeferenced to UTM, Zone 12, NAD27, meters. Project areas were heads-up digitized and attributed with the AML Project ID. This was used as the secondary source. The SOURCE field identifies the source map using the Skey.

AML Reclamation Technical Specifications maps or other pertinent maps were used to estimate approximate project area boundaries. This source is identified by Skey in the Source field. These sources were also used to check the primary and secondary sources. In some cases Specifications maps or other pertinent maps were used to modify project are polygons, especially to add additional project are boundary vertices. See the SOURCES for the identification of multiple sources

used to build a project area boundary. Also see the COMMENTS field for additional notes.

Where none of the above sources were available to define a Project Area boundary, then all mine sites that belong to a given AML Project (based upon the mine site shapefile) were buffered with a 100 foot radius buffer. Where multiple features resulted in overlapping buffers, these buffers were merged and edited to develop a project area polygon. Where multiple non-overlapping polygons were created for a project area then these were connected when they were within 200 feet (diametric width of a buffer polygon) of each other or where directed to do so by Melvin Yazzie (S06170401). When they were not within this distance then multiple project areas polygons resulted. Where buffers were used the SOURCES field identifies Melvin Yazzie as the source ("S06170401") or "TerraSpectra Geomatics" as the source. Also see the COMMENTS field for additional notes related to buffering.

The AMLIS_KEY field provides the relation between the AML_PRJ field and the AMLIS Database Tables. This field is the relate field to the AMLIS Table for Problem Areas. The AMLIS Data dictionary.doc and manual2000.doc provides information to convert the AMLIS KEY into an AML Project ID (AML_PRJ field). AML_PRJ comes from the above described sources. In a few cases the COMMENTS fields will note that one of the multiple sources in the SOURCE field is for the AML_PRJ ID versus the delineation of the project area boundary. PRBLM_AREA was identified from S02190401, except for the Coppermine Problem Area. The Coppermine Problem Area project areas were identified from S03090436. SOURCE provides the Skey for the Source of the Location and Name of the NAMLRP Project Area. COMMENT was developed by TerraSpectra Geomatics to provide additional notes about a given project area. ACRES were calculated using the ArcMAP software. The locational fields: LONG_DD, LAT_DD, EASTING, and NORTHING were calculated using the ArcMAP software. PROJECT identifies the NAMLRP Reclamation Project Name for a group of Project Areas contracted for reclamation work. These were identified from AML Reclamation Project Technical Specifications. PALEO was manually entered from S04130411 only for the Cameron 2 Project. CONTRACTOR and CONTRACT_NO data was joined and calculated from the Navajo_AML_Contract_List_jun04 spreadsheet (S07020402).

The fields BEGIN_DATE, END_DATE, REC_TECH, ARCHY, and BIO are empty fields awaiting data.

Process software and version: ESRI ArcMap 8.3

Process date: June 2004

Process contact:

Contact information:

Contact organization primary:

Contact organization: TerraSpectra Geomatics

Contact address:

Address type: mailing and physical address

Address:

2700 E Sunset Rd, Ste A-10

City: Las Vegas

State or province: NV

Postal code: 89120

Country: USA

Contact voice telephone: 702-795-8254
Contact facsimile telephone: 702-795-2056

Process step:

Process description:

The NAMLRP Abandoned Non-Coal Project Area polygon dataset was filtered to remove abandoned copper mines. The attributes were reduced to five from the original twenty two attributes. The remaining are: ID, AML Project ID, Source, and Comments.

Process software and version: ESRI ArcGIS 9.1

Process date: May 2006

Process contact:

Contact information:

Contact organization primary:

Contact organization: TerraSpectra Geomatics

Contact address:

Address type: mailing and physical address

Address:

2700 E Susnet Rd, Ste A-10

City: Las Vegas

State or province: NV

Postal code: 89120

Country: USA

Contact voice telephone: 702-795-8254

Process step:

Process description:

Dataset copied.

Source used citation abbreviation:

S:\NAUM_DB\AUMs\S06220501_NAMLRP_2004

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Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:

SDTS terms description:

***Name:** NN_AUM_Project_Sites

***SDTS point and vector object type:** G-polygon

***Point and vector object count:** 343

ESRI terms description:

***Name:** NN_AUM_Project_Sites

***ESRI feature type:** Simple

***ESRI feature geometry:** Polygon

***ESRI topology:** FALSE

***ESRI feature count:** 343

- ***Spatial index:** TRUE
- ***Linear referencing:** FALSE

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Spatial Reference Information:

Horizontal coordinate system definition:

Coordinate system name:

- ***Geographic coordinate system name:** GCS_North_American_1983

Geographic:

- ***Latitude resolution:** 0.000000
- ***Longitude resolution:** 0.000000
- ***Geographic coordinate units:** Decimal degrees

Geodetic model:

- ***Horizontal datum name:** North American Datum of 1983
- ***Ellipsoid name:** Geodetic Reference System 80
- ***Semi-major axis:** 6378137.000000
- ***Denominator of flattening ratio:** 298.257222

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Entity and Attribute Information:

Detailed description:

- ***Name:** NN_AUM_Project_Sites

Entity type:

- ***Entity type label:** NN_AUM_Project_Sites
- ***Entity type type:** Feature Class
- ***Entity type count:** 343

Entity type definition:

Project Areas

Entity type definition source:

NAMLRP

Attribute:

- ***Attribute label:** FID
- ***Attribute alias:** FID
- ***Attribute definition:**
Internal feature number.
- ***Attribute definition source:**
ESRI

- ***Attribute type:** OID

- ***Attribute width:** 4

- ***Attribute precision:** 0

- ***Attribute scale:** 0

Attribute domain values:

Attribute:

- ***Attribute label:** Shape
- ***Attribute alias:** Shape
- ***Attribute definition:**
Feature geometry.
- ***Attribute definition source:**
ESRI

- ***Attribute type:** Geometry
- ***Attribute width:** 0
- ***Attribute precision:** 0
- ***Attribute scale:** 0

Attribute domain values:

Attribute:

- ***Attribute label:** ID
- ***Attribute alias:** ID

- ***Attribute type:** Number
- ***Attribute width:** 6

Attribute:

- ***Attribute label:** AML_PRJ
- ***Attribute alias:** AML_PRJ

- ***Attribute type:** String
- ***Attribute width:** 20

Attribute:

- ***Attribute label:** SOURCE
- ***Attribute alias:** SOURCE

- ***Attribute type:** String
- ***Attribute width:** 45

Attribute:

- ***Attribute label:** Comment
- ***Attribute alias:** Comment

- ***Attribute type:** String
- ***Attribute width:** 80

Attribute:

- ***Attribute label:** PROJECT
- ***Attribute alias:** PROJECT

- ***Attribute type:** String
- ***Attribute width:** 40

Overview description:

Dataset overview:

This polygon shape file contains 343 project area polygons, each representing a group of one or more mine sites at abandoned non-coal mines on the Navajo Nation.

Entity and attribute overview:

Five (5) attributes are present, using the following format:

FIELD NAME

Full Name
 Description
 Domain
 Data Type
 Precision
 Scale

ID

ID
 ESRI Feature ID
 Numeric
 Short Integer
 6
 -

AML_PRJ

NAMLRP Project Number
 Project Number for the contained Mine Sites
 NA-####a, where # equals a number (0-9) and a equals a character to distinguish subprojects
 Text
 20
 -

SOURCE

Location Source
 Skey for the Bibliographic Source for the Location and Name of the NAMLRP Project Area
 Skey Number
 Text
 16
 -

COMMENT

Comments
 TerraSpectra Comments
 Text
 Text
 80
 -

PROJECT

Project
 Navajo Abandoned Mine Land Reclamation Project Name for a group of Project Areas contracted for reclamation work
 Project names
 Text
 40
 -

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Distribution Information:

Distributor:**Contact information:****Contact organization primary:**

Contact organization: Navajo Abandoned Mine Lands Reclamation Program (NAMLRP)

Contact address:

Address type: mailing address

Address:

P.O. Box 1875

City: Window Rock

State or province: AZ

Postal code: 86515

Country: USA

Contact voice telephone: 928-871-6982

Contact facsimile telephone: 928-871-7190

Resource description: NAMLRP Abandoned Uranium Mines

Distribution liability:

Although these data have been processed successfully on a computer system for NAMLRP or the USEPA, no warranty expressed or implied is made by NAMLRP or its contractors regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. No responsibility is assumed by NAMLRP or the USEPA or its contractors in the use of these data.

Standard order process:**Digital form:****Digital transfer information:**

***Transfer size:** 0.062

***Dataset size:** 0.062

Custom order process:

Contact the NAMLRP for a custom order.

Technical prerequisites:

Use of this data generally requires computer workstations with ESRI's Arc/Info (7.x or above), ArcGIS (8.x or above), or ArcView (3.x or 8.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

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Metadata Reference Information:

***Metadata date:** 20070720

***Language of metadata:** en

Metadata contact:**Contact information:****Contact person primary:**

Contact person: Andrew Bain

Contact organization: U. S. Environmental Protection Agency, Region 9,

Superfund Program

Contact address:

Address type: mailing address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

***Metadata standard name:** FGDC Content Standards for Digital Geospatial Metadata

***Metadata standard version:** FGDC-STD-001-1998

***Metadata time convention:** local time

Metadata access constraints: None

Metadata use constraints:

None

Metadata security information:

Metadata security classification system: None

Metadata extensions:

***Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

***Profile name:** ESRI Metadata Profile

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Binary Enclosures:

Thumbnail:

Enclosure type: Picture



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