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# **Navajo Uranium Contamination Stakeholders Workshop Gallup Inn, Gallup, NM**

**Navajo Superfund Program  
(NSP)**

**Navajo Nation Environmental Protection Agency  
(NNEPA)**

**November 03 - 05, 2009**

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# Data Management

## US EPA and NN EPA

- What your organization does
  - What Data Management System and Uses
  - What your organization is doing related to the issue of AUM
  - How the sharing of your data may add value to all of the work related to AUM
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# What NNEPA NSP does:

- ❑ Assisted USEPA in collecting AUM related data
  - Screen for potential endangerment of the environment
  - Screen for presents of elevated radiological location(s)
  - O&M issues (erosion)
  - Screens turned over to USEPA, . . .??
  - STOP and now contracted to Weston Solutions Inc.
- ❑ Assisting USEPA in collecting Radiological Contaminated Structures Data
  - Mandated by Congress to USEPAR9, and assigned NSP
  - Screen for potential endangerment of the environment
  - Screen for presents of elevated radiological location(s)
  - Elevated structures referred to USEPA for detail screens
  - Elevated structures demolished and maybe compensated for or replaced
- ❑ Assist Chapters & USEPA in collecting Brownfields Sites related data
  - Collect pertinent data and Map Site locations

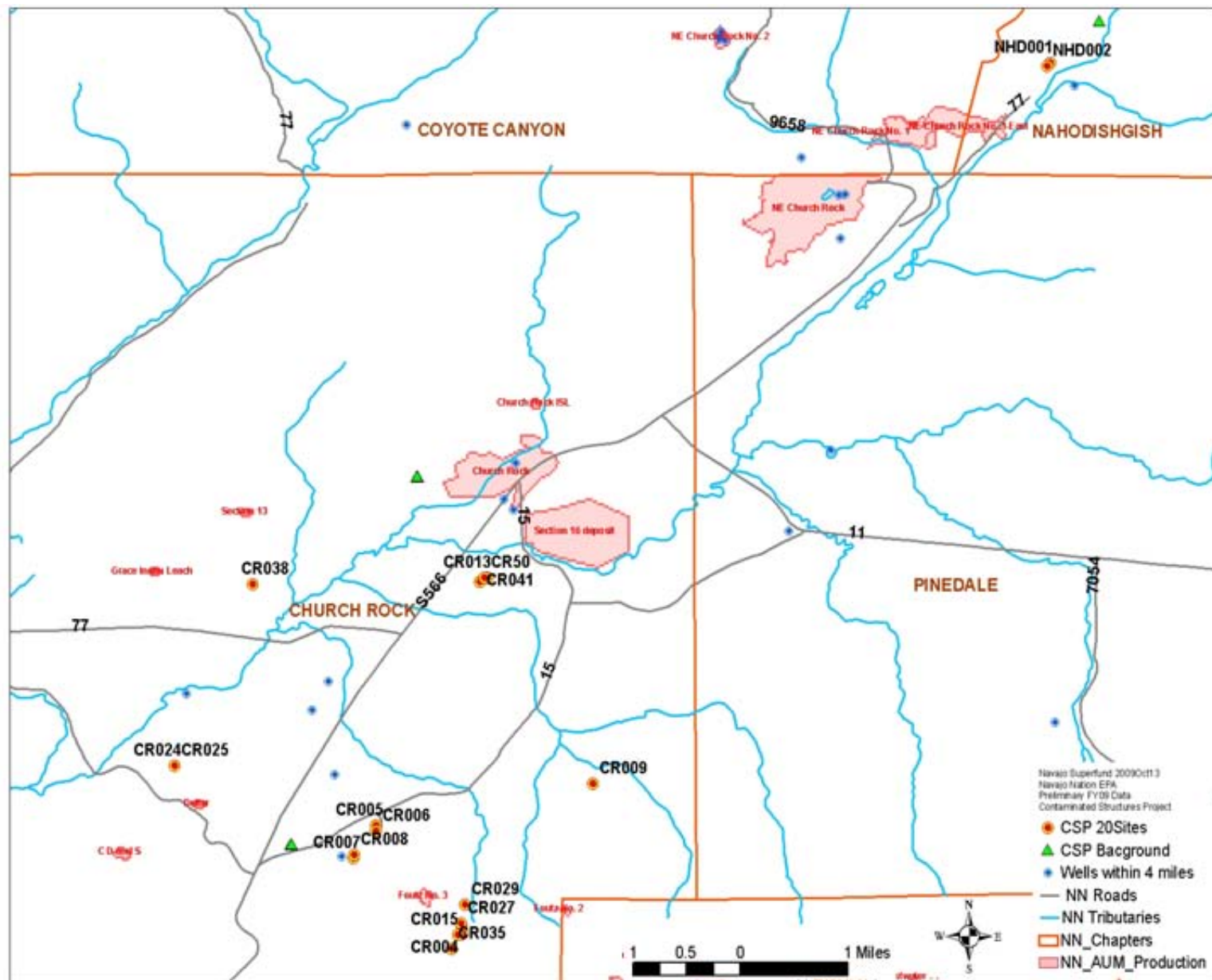
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# Data Management System and uses:

- Geographic Information System (GIS) designed by Terra Spectra Geometrics with available data and spatial datasets
  - Map locations of AUMs, Water Sources, Structures, Chapter Boundaries, Road Networks, Tributary Networks, Topographics (DRGs), and Aerial Photos (DOQQs) - to mention a few datasets

# Data Management System and uses:

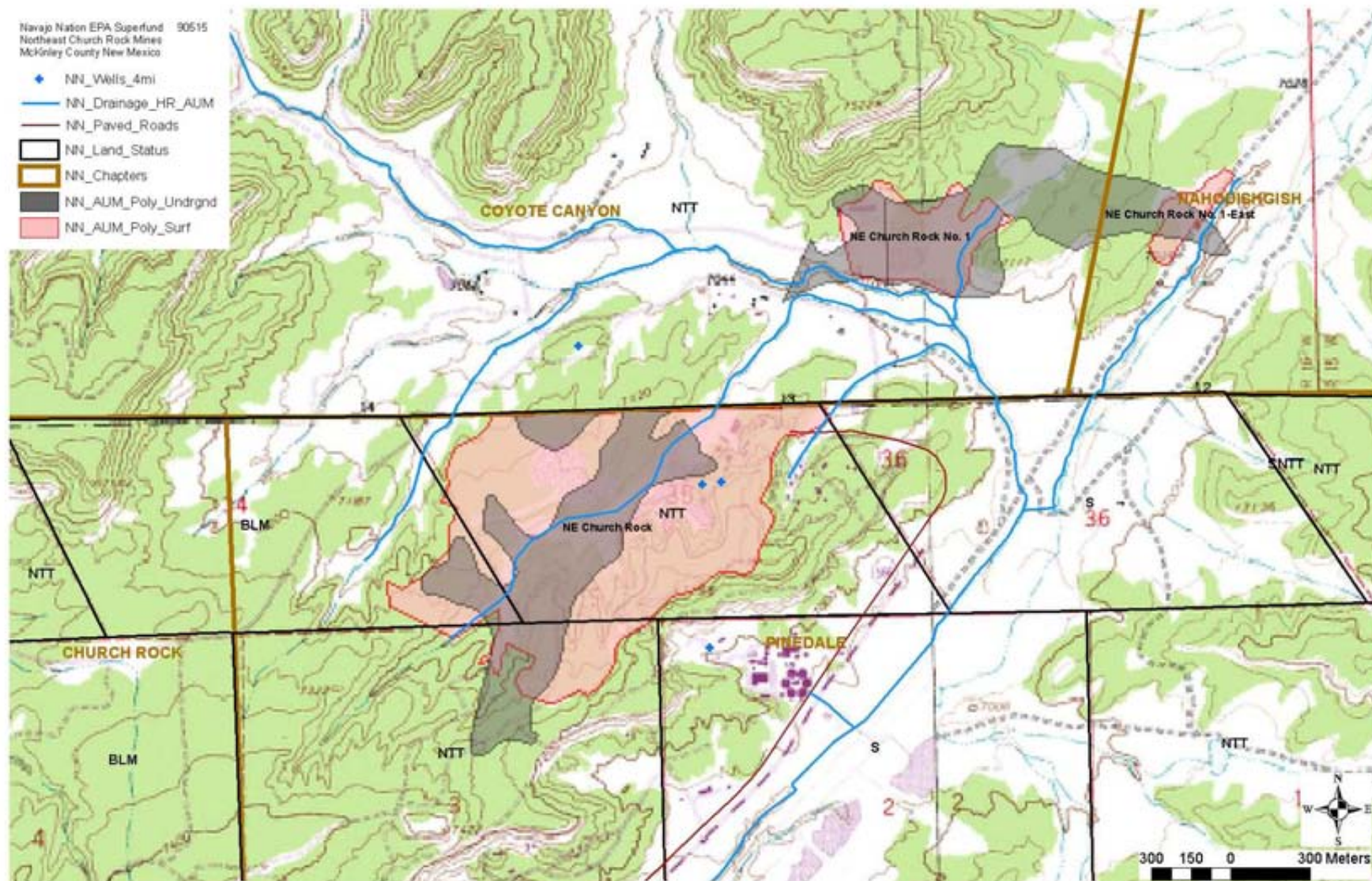
- Geographic Information System (GIS) and Global Position System (GPS)
  - ❑ Have assisted USEPA with collecting AUM related data
  - ❑ Assisting USEPA with collecting Radiological Contaminated Structures data
  - ❑ Assisting Chapters and USEPA with collecting Brownfields related data
- Googleearth
  - ❑ Import GIS and develop maps





Navajo Nation EPA Superfund 90515  
 Northeast Church Rock Mines  
 McKinley County New Mexico

- ◆ NN\_Wells\_4mi
- NN\_Drainage\_HR\_AUM
- NN\_Paved\_Roads
- NN\_Land\_Status
- ▬ NN\_Chapters
- NN\_AUM\_Poly\_Undrgrd
- NN\_AUM\_Poly\_Surf









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# Data Management System and uses:

- ❑ Access Database
  - Electronic Files Sites Listing with data items as opposed to manual file system
- ❑ Publisher
  - Public access via the Internet (webpages)

## PAGE 1 NNEPA Structures Reconnaissance Site Screen

ID Structure ID Number:

CR001

Last Name Primary Adult

LastName

First Name Primary Adult

FirstName

Initial

Primary Address 1

PAdd1

Primary Address 2

PAdd2

Primary City

Pcity

Primary State

PS

Primary Zip

86515

Leaseholder Last Name

LLName

Leaseholder First Name

LFName

Leaseholder Initial

L

Leaseholder Address 1

LAdd1

Leaseholder Address 2

LAdd2

Leaseholder City

Lcity

Leaseholder State

LNM

Leaseholder Zip

87301

Home Site Lease No.

789456

Grazing Permit No.

654987

Chapter Name

Cname

Chapter Address 1

CAdd1

Chapter Address 2

CAdd2

Chapter City

Ccity

Chapter State

CNM

Chapter Zip

98764

Chapter E-mail

email@email.com

District No.

20

Agency Name

Eastern

Latitude Decimal Degrees

35.789456

Longitude Decimal Degrees

108.245987

Elevation:

6578

No Further Action

YES

Referral to U.S. E.P.A

YES

Interview Conducted By:

Interview Conducted

Date

7/20/2009

Access Agreement

[EasternStruct](#)

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Site Sketch  
Run Page 5Structure Sketch  
Run Page 6

Run Page 7

**PAGE 2 NNEPA Structures Reconnaissance Site Screen**

ID	Site ID No.	Structure ID No.	Latitude Decimal Degrees	Longitude Decimal Degrees
(Number)				

Water: Describe all sources, locations, ownership, and Lat/Long.

Describe names, locations, and distances of nearest uranium mines and/or waste piles.

Describe what is known about the AUM, owners and period of operation.

Describe use of mine waste material in the construction of the structure, including date built

type	Material	Status

House  
Hogan  
Storage  
Barn  
Shed  
Other

Describe names, locations, and distances of nearest uranium mines and/or waste piles.

Describe what is known about the AUM, owners and period of operation.

Site Photos

Structure Photos

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Site Sketch  
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**PAGE 2 NNEPA Structures Reconnaissance Site Screen**

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Describe names, locations, and distances of nearest uranium mines and/or waste piles.

Describe what is known about the AUM, owners and period of operation.

Describe use of mine waste material in the construction of the structure, including date built

type

Material

Status

Site sketch of all structures,

Prefab  
Plywood  
Adobe  
Log  
Board  
Stone Masonry

micak readings, well, and AUM

Sketch of structure floor plan

ological readings, and radon canister locations

Site Photos

Structure Photos

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CSPStructure

PAGE 2

NNEPA Structures Reconnaissance Site Screen

ID

Site ID No.

Structure ID No.

Latitude Decimal Degrees

Longitude Decimal Degrees

(Number)

Water: Describe all sources, locations, ownership, and Lat/Long.

Describe names, locations, and distances of nearest uranium mines and/or waste piles.

Describe what is known about the AUM, owners and period of operation.

Describe use of mine waste material in the construction of the structure, including date built

type

Material

Status

Site sketch of all structures, ID No.s, location of radiologic

Inhabitable

Fully Function

Abandoned

Significant Disrepair

Dismantled

Sketch of structure floor plan, location of elevated radiological readings, and radon canister locations

Site Photos

Structure Photos

Record: 11

1

of 1



**PAGE 1 NNEPA Structures Reconnaissance Site Screen**

ID  1 Structure ID Number:  CR001

**PAGE 3 Daily Background Location Measurements**

ID  AutoNum Site ID No.  Structures ID No.

Site Background Date  Instrument Model  Instrument Serial No

Instrument Measure 1  Instrument Measure 2  Instrument Measure 3

Instrument Measure Average  Instrument Measure IL+2  Instrument Measure IL+10

SiteBckgrndMap

Record: 14 of 1

Cname  CAdd1  CAdd2

Chapter City  Chapter State  Chapter Zip  Chapter E-mail   
Ccity  CNM  98764  email@email.com

District No.  Agency Name   
20  Eastern

Latitude Decimal Degrees  Longitude Decimal Degrees  Elevation:   
35.789456  108.245987  6578

No Further Action  Referral to U.S. E.P.A.   
YES  YES

Interview Conducted By:  Date  Access Agreement   
Interview Conducted  7/20/2009  EasternStuck

Record: 14 of 1

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Site Sketch  
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Structure Sketch  
Run Page 6

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CSPsites

PAGE 1 NNEPA Structures Reconnaissance Site Screen

ID

1

Structure ID Number:

CR001

Last Name: Delmon, Adult

First Name: Delmon, Adult

Initial:

CSPStructureMeasure

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Structures Measurements - One table per structure

ID

AutoNu

Site ID No.

Structures ID No.

Site Background Date

Instrument Model

Instrument Serial No

Location(s) - Room Description

Instrument Measure 1

Instrument Measure 2

Instrument Measure 3

Instrument Measure 4

Instrument Measure 5

Instrument Measure 6

Record: 1 of 1

Chapter Name

Cname

Chapter Address 1

CAdd1

Chapter Address 2

CAdd2

Chapter City

Ccity

Chapter State

CNM

Chapter Zip

98764

Chapter E-mail

email@email.com

District No.

20

Agency Name

Eastern

Latitude Decimal Degrees

35.789456

Longitude Decimal Degrees

108.245987

Elevation:

6578

No Further Action

YES

Referral to U.S. E.P.A

YES

Interview Conducted By:

Interview Conducted

Date

7/20/2009

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EasternStruct

Record: 1 of 1

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Site Sketch  
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CSPSRes

CSPDecision

## PAGE 7 Decision on Structures

ID	Site ID No	Structure ID No
1	CR001	CR001A

Identify the locations and background levels for this structure on map with Lat/Long background

Map of background location, Latitude/Logitude, and Radiological measurements  
[EasternStructCR0011CF](#)

Identify the highest radiological readings at the structure on map with Lat/Long radiological

Map of Radiological locatons, Latitude/Longitude, and Radiological measurements  
[EasternStructCR0011CF](#)

Do structure radiation measurements exceed 2 times background or the Investigation Level?  
yesno

If so, then, refer to US EPA for a complete radiological survey  
ok

If not, then, refer to Navajo Superfund Program for further action  
yesno

Is sampling of the water sources recommended?  
yesno

If so, then, Identify water source loaction on map with Lat/Long  
ok

Name and Organization of person conducting radiological reconnaissance  
nnepa nsp

Record: 14 | 1 | 1 | 1 | 1 | of 1

Interview Conducted 7/20/2009 [EasternStruct](#)

Record: 14 | 1 | 1 | 1 | 1 | of 1

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Site Sketch  
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Structure Sketch  
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# What NNEPA Superfund is doing related to the issue of AUM

- Locate, screen (collect data), and do a referral to either USEPA, other agencies or departments with BIA, States, other programs within NNEPA, and other programs within NN
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# How the sharing of data may add value to all of the work related to AUM

- Some of the data collected are confidential and can not be shared
- Contact Management for sharable data