

US EPA ARCHIVE DOCUMENT

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

**Navajo Superfund Program
(NSP)**

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

November 03 - 05, 2009

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
-

What NNEPA NSP does:

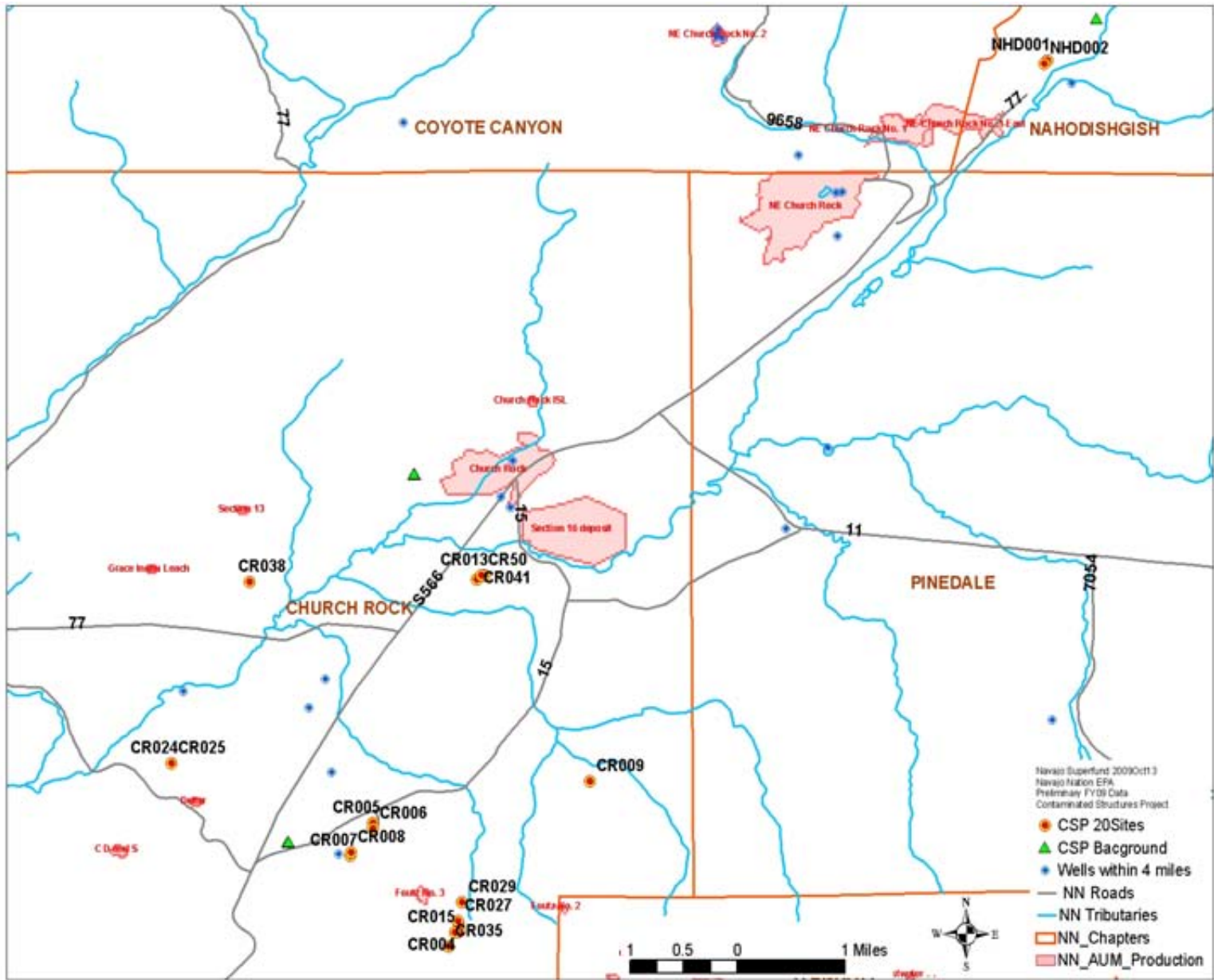
- Assisted USEPA in collecting AUM related data
 - Screen for potential endangerment of the environment
 - Screen for presents of elevated radiological location(s)
 - O&M issues (erosion)
 - Screens turned over to USEPA, . . .??
 - STOP and now contracted to Weston Solutions Inc.
 - Assisting USEPA in 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
-

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
-

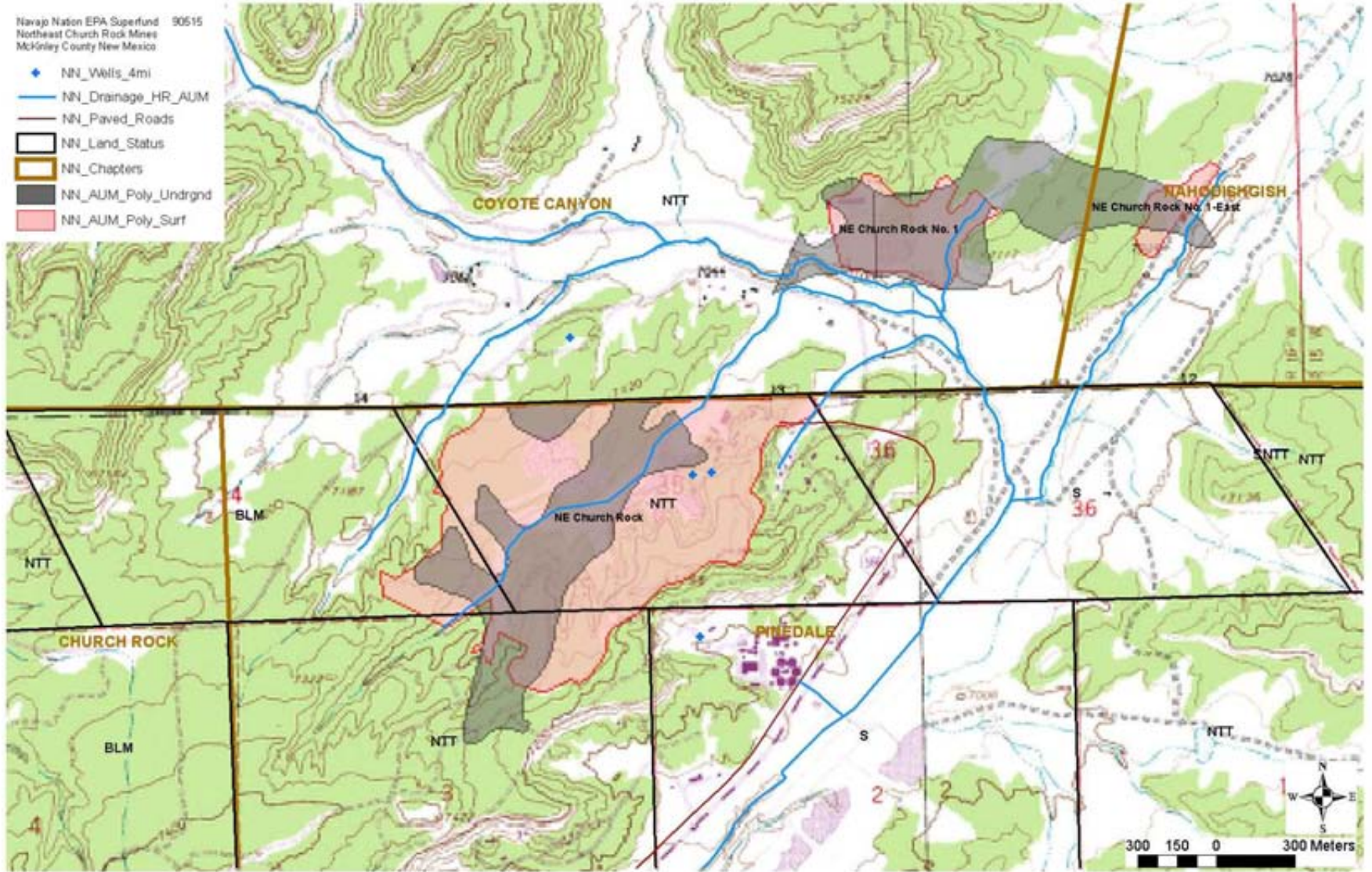
Data Management System and uses:

- 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_Undrgrnd
- NN_AUM_Poly_Surf





118

40

Historic US 66

Diamond #2

35.487567, -108.643564

Image © 2008 DigitalGlobe
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Imagery Dates: Dec 21, 2004 - Apr 21, 2005

lat 35.507774° lon -108.654339° elev 0 ft

Eye alt 21952 ft

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:

Last Name Primary Adult
 First Name Primary Adult
 Initial

Primary Address 1
 Primary Address 2

Primary City
 Primary State
 Primary Zip

Leaseholder Last Name
 Leaseholder First Name
 Leaseholder Initial

Leaseholder Address 1
 Leaseholder Address 2

Leaseholder City
 Leaseholder State
 Leaseholder Zip

Home Site Lease No.
 Grazing Permit No.

Chapter Name
 Chapter Address 1
 Chapter Address 2

Chapter City
 Chapter State
 Chapter Zip
 Chapter E-mail

District No.
 Agency Name

Latitude Decimal Degrees
 Longitude Decimal Degrees
 Elevation:

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

Interview Conducted By:
 Date
 Access Agreement

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Site Sketch
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Structure Sketch
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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

... ID No.s, location of radiological readings, well, and AUM

... an, location of elevated radiological readings, and radon canister locations

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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type	Material	Status

Site sketch of all structures, 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 (Number)	Site ID No.	Structure ID No.	Latitude Decimal Degrees	Longitude Decimal Degrees
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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
<input type="text"/>	<input type="text"/>	<input type="text"/>

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

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

Site Photos

Structure Photos

Record: 11 of 1

Screen

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Site Sketch
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Structure Sketch
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PAGE 1 NNEPA Structures Reconnaissance Site Screen

ID	Structure ID Number:
1	CR001

PAGE 3 Daily Background Location Measurements

ID	Site ID No.	Structures ID No.
AutoNu		
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	EasternStruct	

Record: 14 of 1

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Site Sketch
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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

PAGE 4 Structures Measurements - One table per structure

ID	Site ID No.	Structures ID No.	Site Background Date
AutoNu			
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	Chapter Address 1	Chapter Address 2	
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	EasternStruct	

Record: 1 of 1

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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

[EasternStructCR001CF](#)

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

Map of Radiological locatons, Latitude/Longitude, and Radiological measurements

[EasternStructCR001CF](#)

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

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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
-

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
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