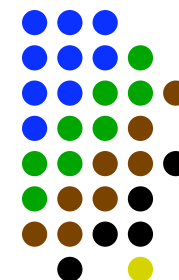


US EPA ARCHIVE DOCUMENT

Inactive and Abandoned Uranium Mine Data Management



Navajo Uranium Stakeholders Workshop
Gallup, New Mexico
November 4, 2009

Susan Lucas Kamat, Geologist
New Mexico Mining & Minerals Division



Abandoned. Inactive Uranium Mines



Collapsed shaft



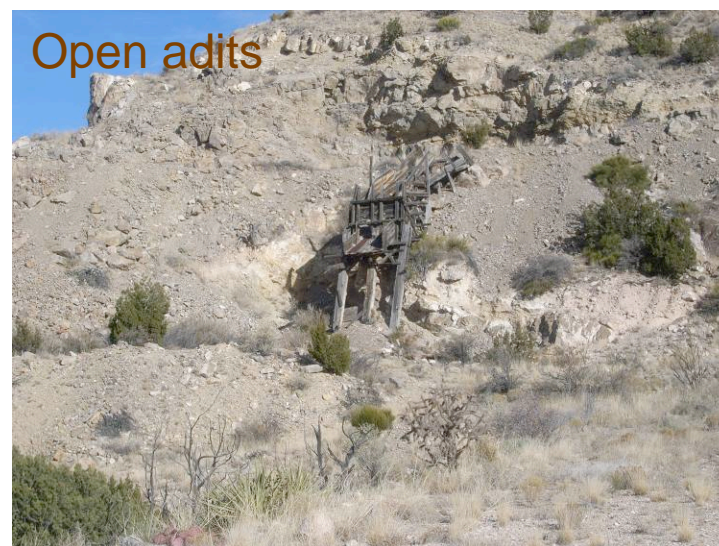
Subsidence



Waste piles



Open adits



Inactive/Abandoned Uranium Mine Inventory

New Mexico
Grants Uranium
Belt and State-wide
Distribution of Abandoned
Uranium Mines (AUM)

- AUM
- Major Cities
- Grants Uranium Belt
- Counties
- Interstate Hwys
- Major Roads

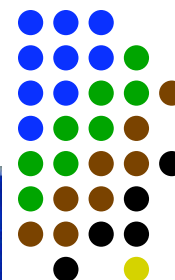


Created by New Mexico
Mining & Minerals, New Mexico Energy,
Minerals & Natural Resources
April 2009

Data: AUMs from Mining & Minerals
Div. (NM Energy, Minerals & Nat. Res. Dep.)
and NM Bureau of Geology and Mineral
Resources; base layers from ESRI and
NM Resource GIS Program
(<http://rgis.nm.edu>), US Census Bureau,



Data Dictionary Implementation



USiteAssess_dec08 - Data Dictionary Editor

File Edit Options Help

Name: AUM Site Visit
 Comment: Dec 2008 MMD - Pathfinder DD

Features:	Attributes:	Text
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> adits <input checked="" type="checkbox"/> drillholes <input checked="" type="checkbox"/> RadCnts <input checked="" type="checkbox"/> shafts <input type="checkbox"/> disturbance <input type="checkbox"/> dumps <input type="checkbox"/> erosion <input type="checkbox"/> foundations <input type="checkbox"/> loadouts <input type="checkbox"/> piles <input type="checkbox"/> pits <input type="checkbox"/> reclamation <input type="checkbox"/> structures <input type="checkbox"/> subsidenceArea <input type="checkbox"/> trench <input type="checkbox"/> declines <input type="checkbox"/> drainage <input type="checkbox"/> erosion <input type="checkbox"/> highwall <input type="checkbox"/> inclines <input type="checkbox"/> subsidence <input type="checkbox"/> trenchL 	<ul style="list-style-type: none"> Abs FeatureID Abs MineName - DnSite - SurveyMeter 123 micrRhcontact 123 micrRh_1m Abs PhotoID Abs AssocFeat Abs Notes 	Length: 15 Default Value: rad-0 Auto-incrementing Step Value: 1 On Creation: Normal On Update: Normal

Default Feature Settings:

Min. Positions: 1
 Accuracy: Code
 Log Interval: 1 seconds
 Label 1: AssocFeat
 Label 2: <Off>

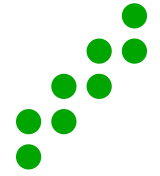
Press F1 for help

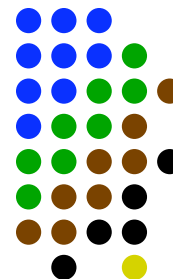
NUM

Calibrating Radiation Meters

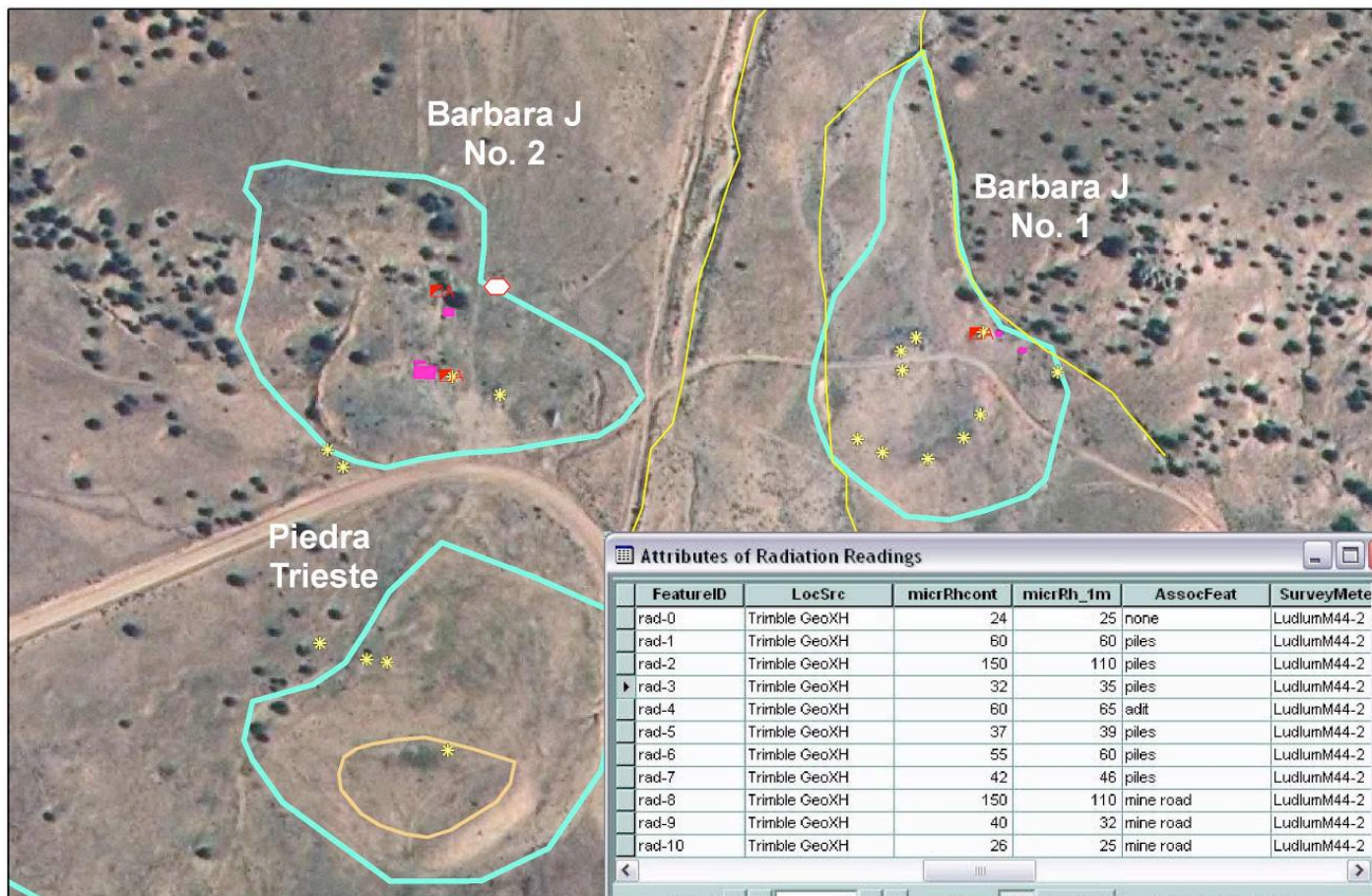


GPS-Linked Photos

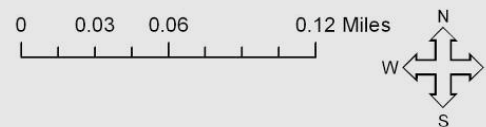




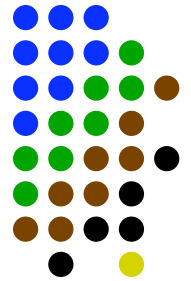
Field Data Stored in a Geospatial Database



- Shafts
- Erosion
- * Radiation (micro R/hr)
- Pits
- Subsidence
- AUM Surface Disturbance



Data Sharing



- Limited resources require prioritizing abandoned uranium mine sites and leveraging resources across partners.
- Multi-agency involvement on federal, state and tribal levels with stakeholder consultation.
- Data sets that can easily be shared among partners.
- Data sets that other partners can use in their workflow.