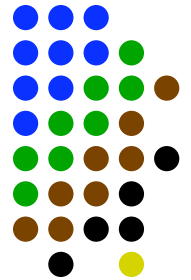


Inactive and Abandoned Uranium Mine Data Management



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

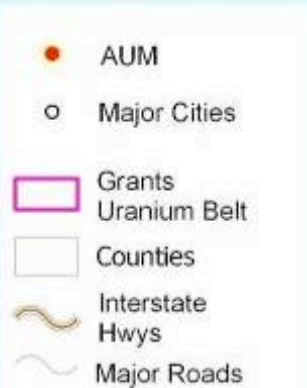


Open adits



Inactive/Abandoned Uranium Mine Inventory

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

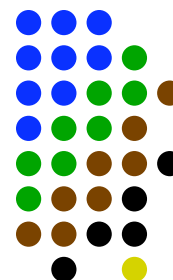


Created by New Mexico
Mining & Minerals, New Mexico Energy,
Minerals & Natural Resources
April 2009

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

Icons: New, Open, Save, Print, Find, Undo, Redo, Copy, Paste, Up, Down, Help

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

Features:	Attributes:	Text
<ul style="list-style-type: none">✕ adits✕ drillholes✕ RadCnts✕ shafts☞ disturbance☞ dumps☞ erosion☞ foundations☞ loadouts☞ piles☞ pits☞ reclamation☞ structures☞ subsidenceArea☞ trench☞ declines☞ drainage☞ erosion☞ highwall☞ inclines☞ subsidence☞ trenchL	<ul style="list-style-type: none">Abc FeatureIDAbc MineName☐ OnSite☐ SurveyMeter123 micrRhcontact123 micrRh_1mAbc PhotoIDAbc AssocFeatAbc Notes	<p>Length: 15 Default Value: rad-0</p> <p>Auto-incrementing Step Value: 1</p> <p>On Creation: Normal</p> <p>On Update: Normal</p> <p>Default Feature Settings:</p> <p>Min. Positions: 1 Accuracy: Code Log Interval: 1 seconds Label 1: AssocFeat Label 2: <Off></p>

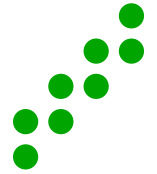
New Feature... F3 New Attribute... F7
Edit Feature... F4 Edit Attribute... F8
Delete Feature F5 Delete Attribute F9

Press F1 for help NUM

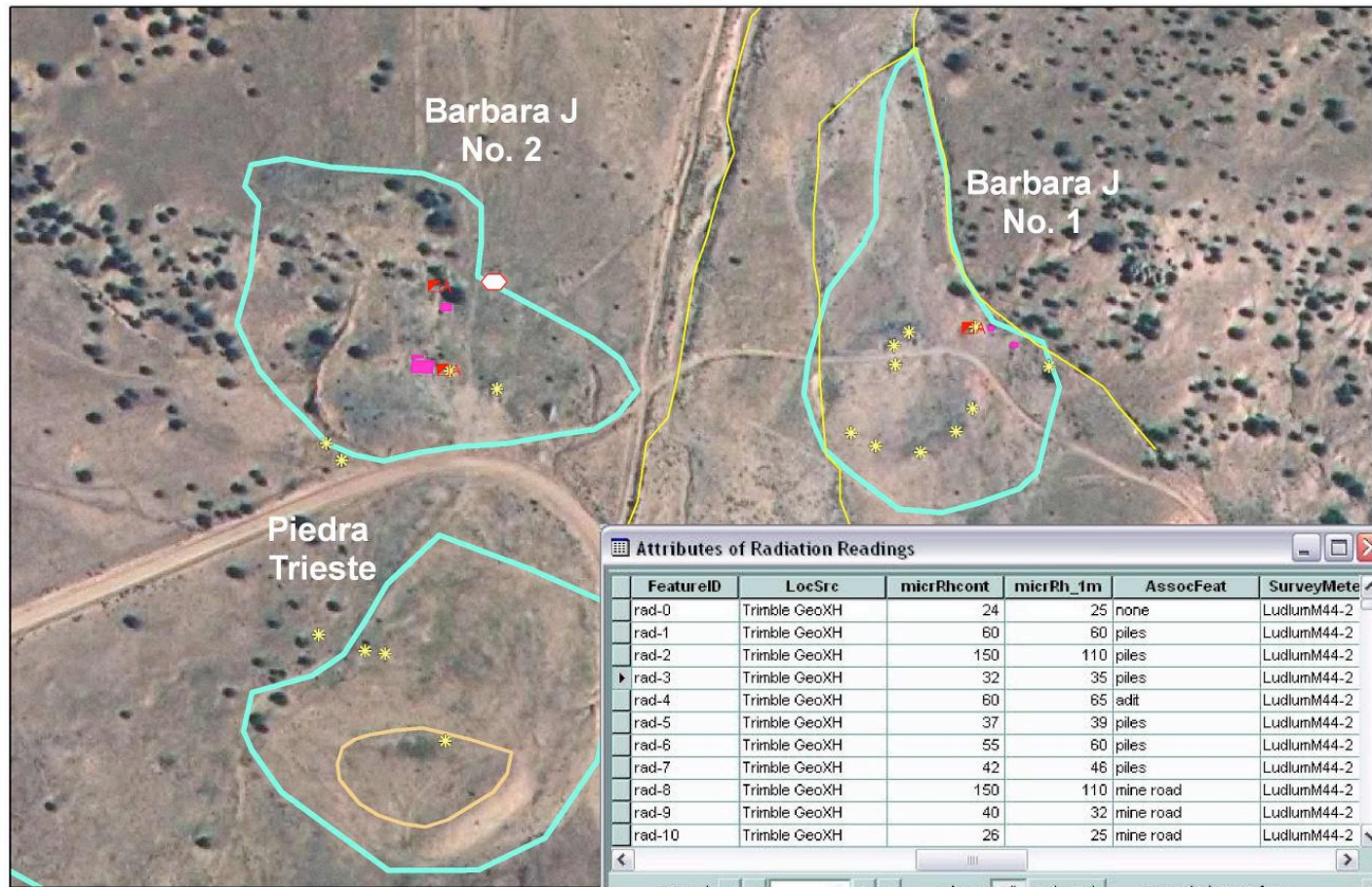
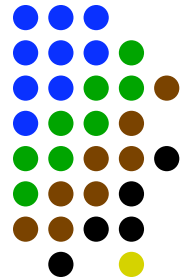
Calibrating Radiation Meters



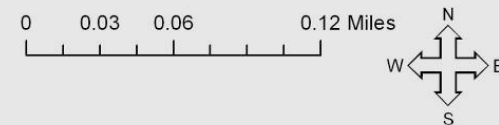
GPS-Linked Photos



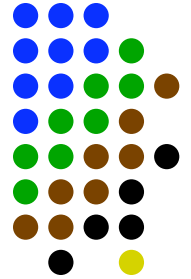
Field Data Stored in a Geospatial Database



- Shafts
- Radiation (micro R/hr)
- Subsidence
- Erosion
- Pits
- 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.