



# Pyramid Lake Paiute Tribe

## Guanomi Mine Reclamation



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# Guanomi Mine Site



6 water features with periodic acidic discharges

2 caved adits and 2 caved shafts

1 open shaft

Tailings waste dumps with acid generating rock

1 small landfill



# Historical Buildings





# Landfill at the Edge of the Site





# Shaft or Pit That Is Caved





# Caved Adit with Acidic Drainage





# Collapsed Adits Are Safety Concerns





# Tailings Leach During Storm Events





# Red Precipitate From Tailings





# Flowing Discharge





# Springs Encrusted With Precipitate



# Opening the Adit



Bobcat with a backhoe attachment used to remove debris from the entrance of the adit. Timbers were carried out.





## Acidic Water in the Drainage





# Tailings Removal





# Wetlands Planting



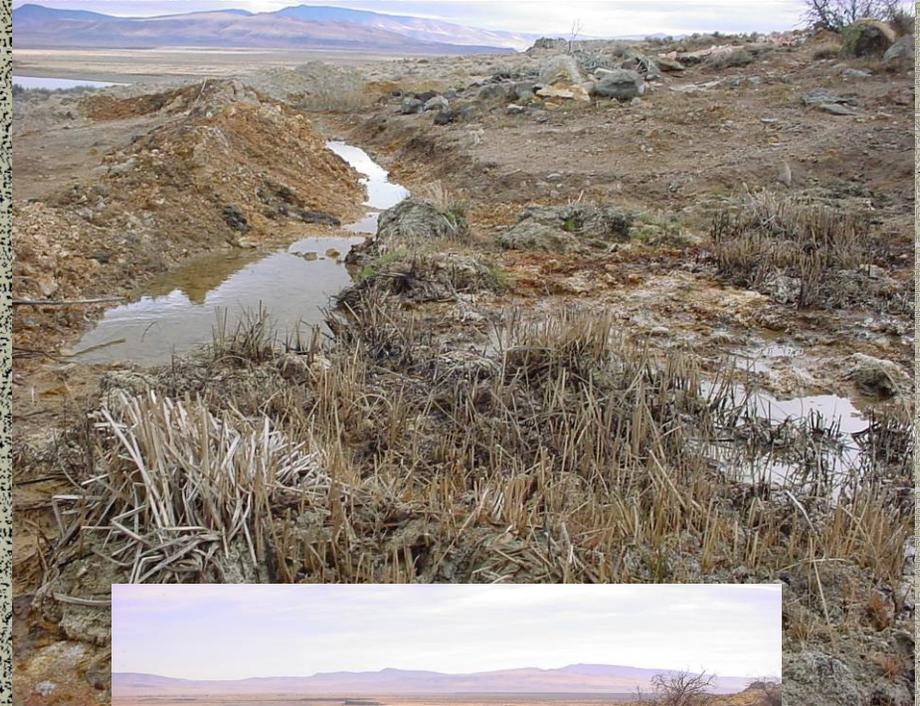


# Limestone Spread on site





# Drainage from the constructed Wetlands





# Holding Pond to catch run-off and drainage from adits and springs





# Spreading Growth Media



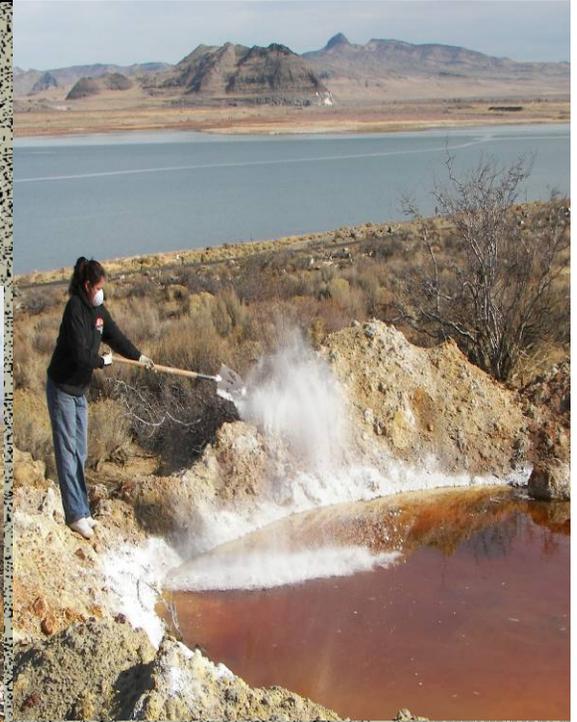


# Upland Seeding





# Wetland Preparation





# Contouring





# Site overview





# Run- Off Collection System





# Shallow Wetlands/Channels





# Upland Vegetation





# GUANOMI MINE

This site contains natural springs that were once used by the Tribe for cultural purposes. The springs have been destroyed from years of accumulating mine waste. The mine was active in the 1920s with low metal production. It has been abandoned since the 1950s leaving acid mine drainage from tailings piles and open adits. The mining operation created 150 feet of underground workings that have mostly collapsed. The acid mine drainage produced from mining at the site used to flow directly into Pyramid Lake, the center of the Tribes existence.

The lake is supporting endangered and threatened species that are still part of the Paiute peoples diet and traditional heritage. A reclamation plan includes redirecting surface flows to be contained in created and existing

wetlands at the site. Soil amendments with lime and topsoil have been added to minimize the effects of pH on the biological life. Re-vegetation of the site does require plant species that are salt and heavy metal tolerant. The tailings are being captured in an old railroad bed to reduce the oxidation. Capping and re-vegetating are done to reduce the water contact with the active tailings.

Pyramid Lake is a natural & cultural resource for the Pyramid Paiute people. The Tribe has depended on the lake for thousands of years to provide for their existence and is working to improve the environment for the generations to come.

The co-operation of all these agencies listed below have made this important reclamation project possible.





# Questions?



Thank you