



Good Samaritan Permit Project Oro Flame Mine

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Agenda

- Why Oro Flame?
- Impacts
- Site Assessment
- Remedial Options
- Permitting
- Effectiveness Monitoring

Why Oro Flame Mine?



- PRP search done and considered abandoned under DOI AHMR program
- Have to do NEPA anyway; can do a joint NEPA with EPA & DOI
- Privately owned parcel with access agreements in place
- Sampling and site investigation complete; developing engineering plans now

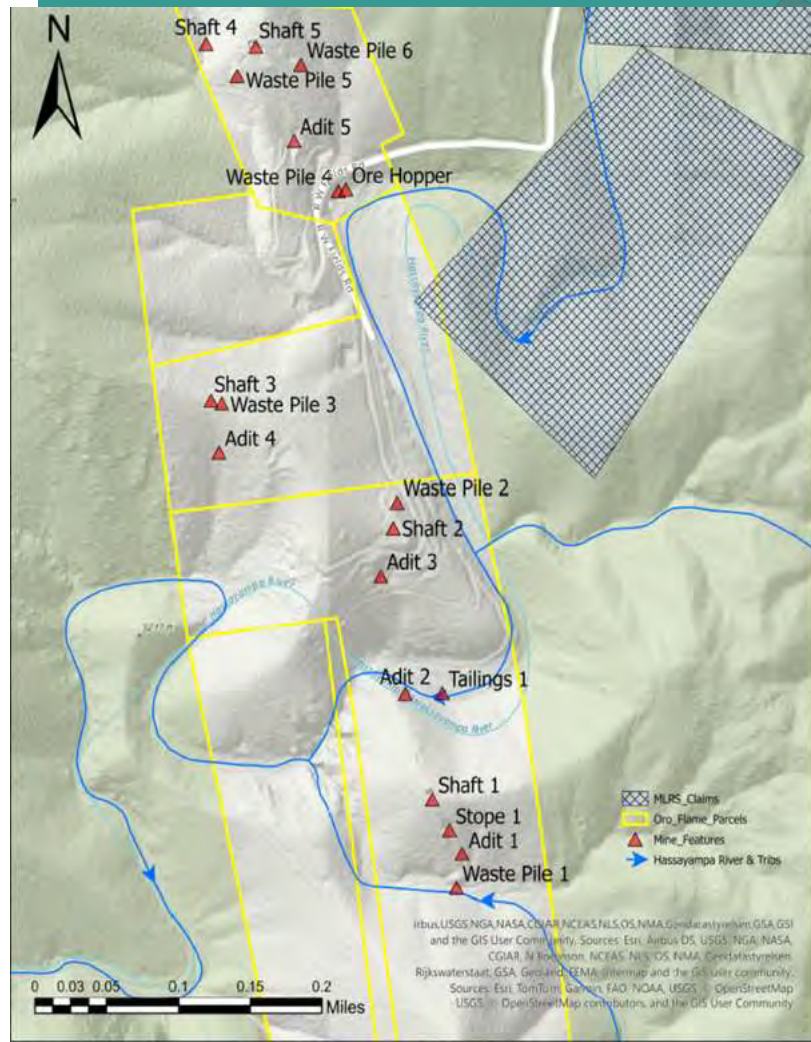
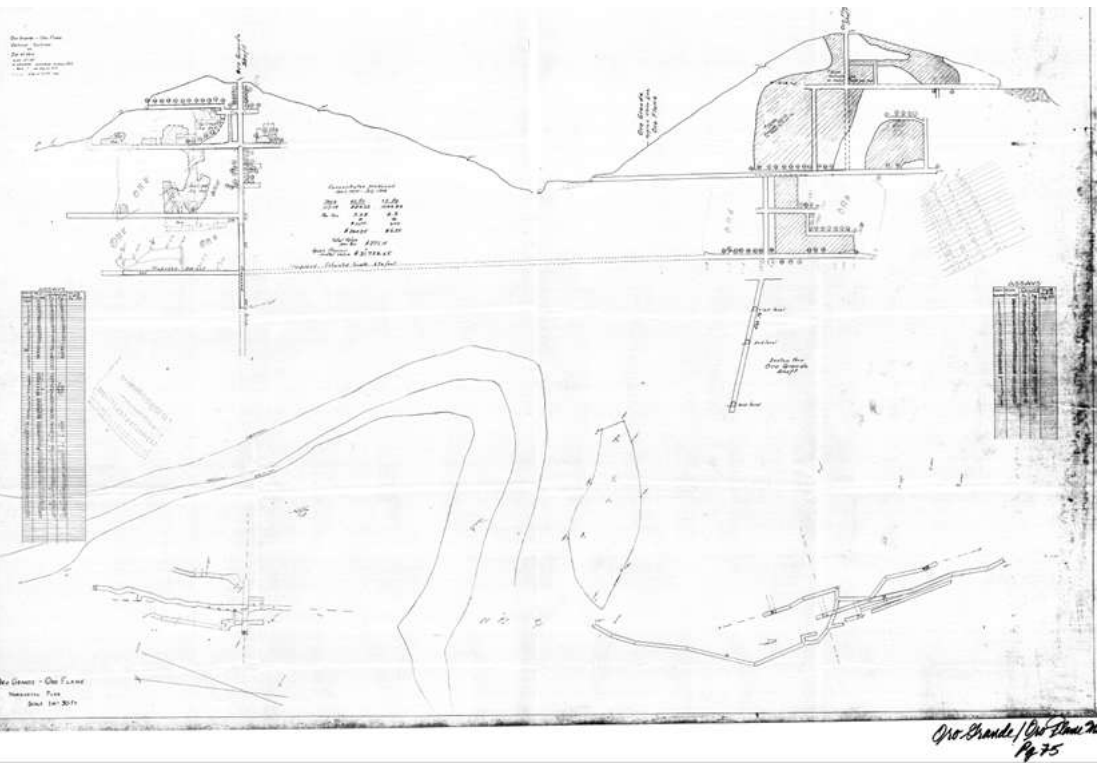
Impacts

- Human Health - Elevated concentrations of Lead and Arsenic
- Surface Water - Hassayampa River Impaired for Copper, Cadmium, and Zinc
- Habitat - High sediment load from eroding waste & tailings

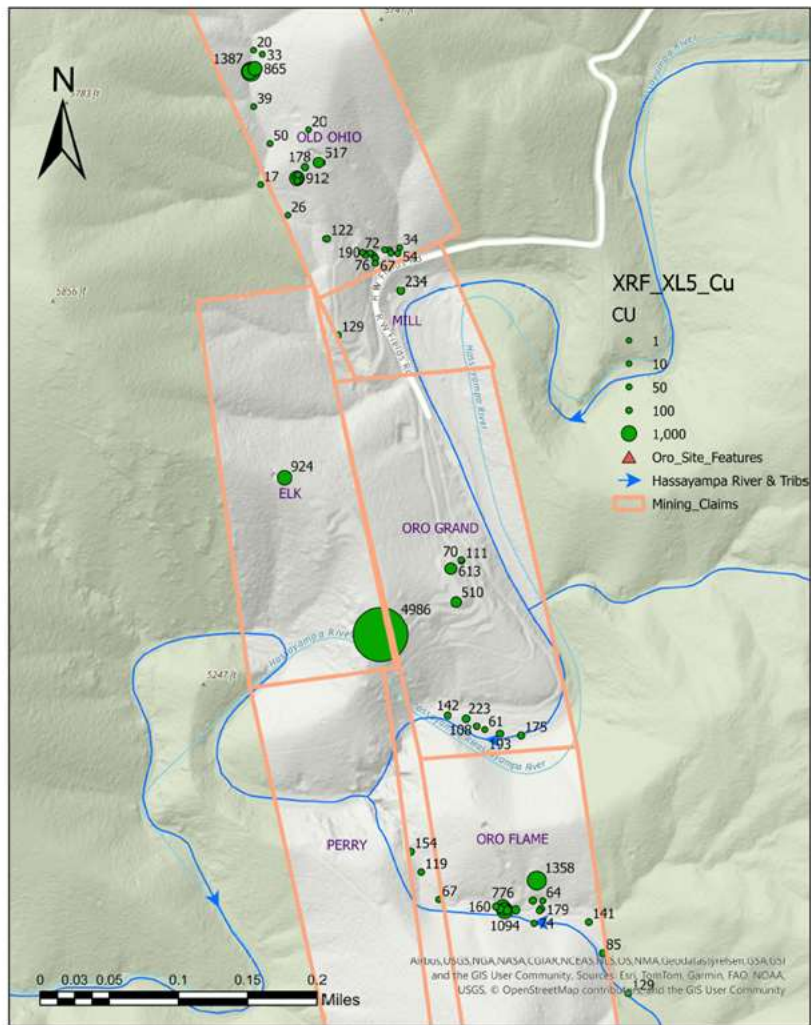


Site Assessment

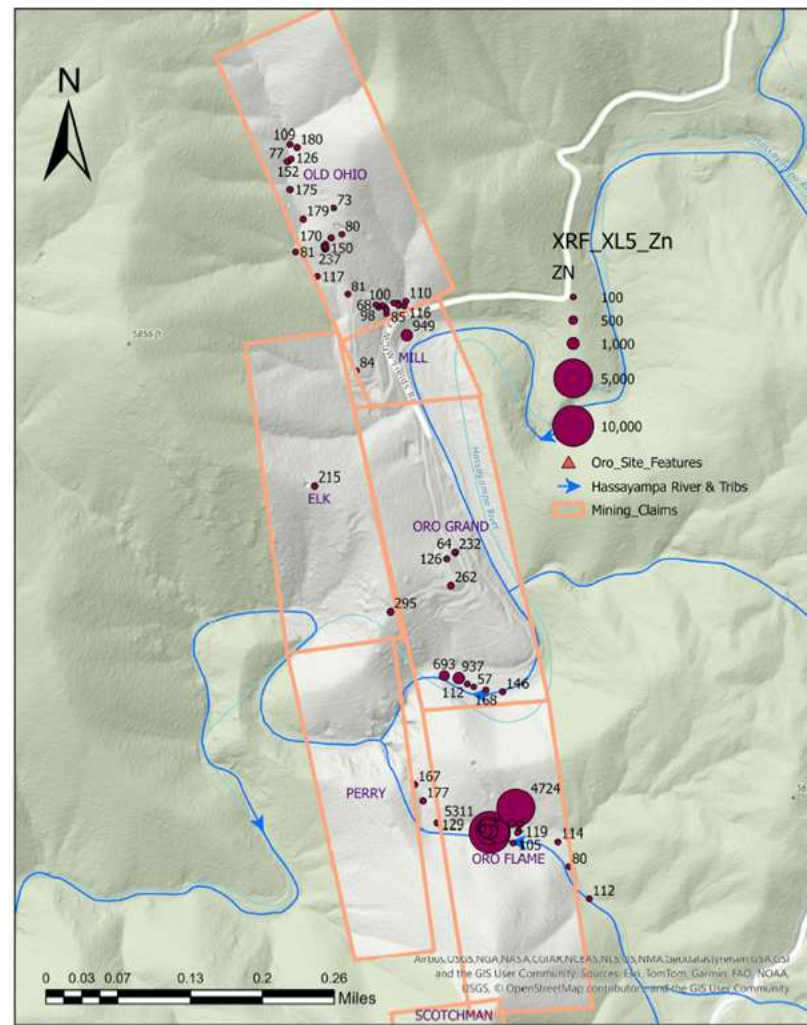
- Mine Workings
- Mine Waste
- XRF



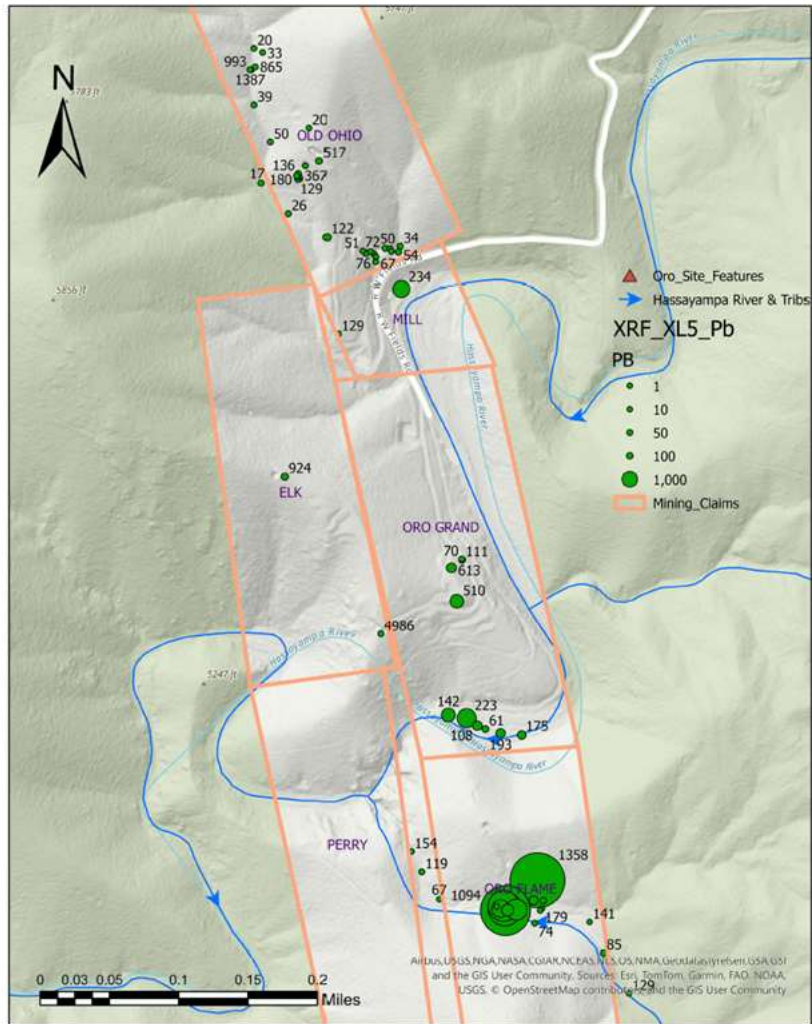
Oro Flame XRF Copper PPM



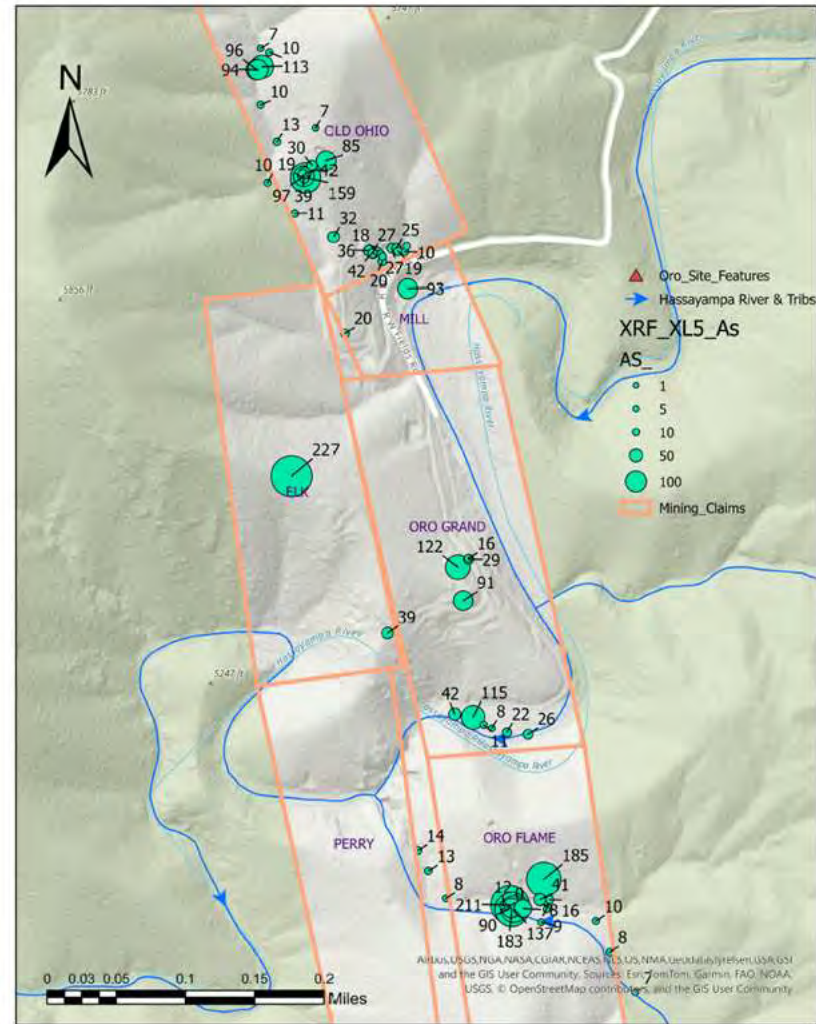
Oro Flame XRF Zinc PPM



Oro Flame XRF Lead PPM



Oro Flame XRF Arsenic PPM



Old Ohio - On-Site Consolidation Remediation Option



Oro Grande - On-Site Repository Remediation Option



Oro Flame - On-Site Repository Remediation Option



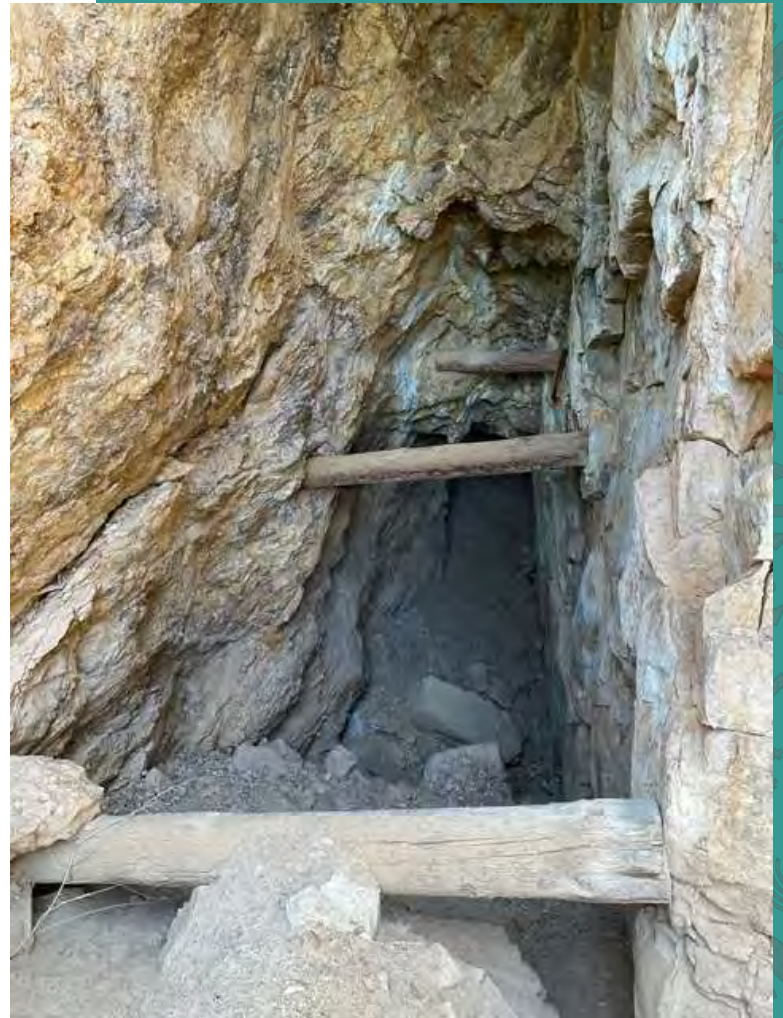
Permitting

- Good Samaritan Permit-
Environmental Assessment with
Finding of No Significant Impact
- Department of Interior
Abandoned Hard Rock Mine Grant
Funding - Environmental
Assessment with Finding of No
Significant Impact
- Non-Point Source 319 CWA
Funding - must be compliant with
NEPA



Effectiveness Monitoring

- Estimates of reduced waste erosion and human exposure to contaminants from sequestered waste
- Quarterly evaluation and reporting of engineering controls
- Surface Water sampling and stream ecosystem monitoring for reporting NPS load reductions and effectiveness





Questions?

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