Leviathan Mine
October 2011 TAC Meeting
Lahontan Water Board

Leviathan Creek thru mine waste
Waste piles and creek delta
Leviathan Creek joining Mountaineer Creek
Tasks in 2011:
• Spring and Summer Pond Water Treatment Operations
• Flow and Meteorological Monitoring
• Maintenance
• Paving
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Crusher Road Seep
In 2011, approximately 1082 tons of sludge generated in 2010 from 6.7 million gallons of AMD were hauled off site for disposal.
Pit Clarifier ready for treated AMD
9.8 million gallons of AMD treated and discharged to Leviathan Creek
• Influent pH range 2.11 – 3.28 SU
• Influent average TDS 9,020 mg/L
• Field and lab data show all USEPA discharge criteria met

198 tons lime (dry weight)
• 6,924 gallons diesel
• 335 gallons gasoline
• 147 gallons liquid flocculent
• 4,854 mg lime / liter AMD
Pond 2N at the end of the 2011 treatment season
~800 – 1,000 tons of sludge will be hauled off site for disposal in 2012
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USGS Stage and Flow Monitoring

No SW sampling 2010-11
**Maintenance Activities in 2011**

- Upgraded plant electrical system
- Paved upper site roads, replaced/added storm water control structures
- Cleaned sediment from V-ditch at Pond 3 and replenished liner cover
- Sprayed for Whitetop
- Perimeter fence repaired
- Relocated pit clarifier effluent line
Paving activities during 2011 field season
Incorporating lime-cement into soil
California access road w/ concrete V-ditch
New pavement and storm water control structures