**Lahontan Water Board Program Fact Sheet**

**FY 2017-2018**

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| ***Leviathan Mine*** |
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| **Overview**  **The State of California owns the Leviathan Mine property, which is on the federal list of the most polluted sites in the nation (National Priorities List). The purpose of the Water Board’s Leviathan Mine program:**   * **Abate discharges of acid mine drainage (AMD) to Leviathan Creek from areas of the Leviathan Mine Superfund Site that the Water Board manages.** * **Maintain the Water Board’s pollution abatement infrastructure at the Site.** * **Comply with USEPA orders regarding the Site.** * **Provide review and comment on cleanup activities and Remedial Investigation/Feasibility Study (RI/FS) activities proposed and carried out by Atlantic Richfield (AR) to comply with USEPA orders.** * **Develop and implement a final remedy for the Site that is protective of human health and the environment.**   **The Water Board implements the program with an allocation of 7.0 PYs.** |
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| **Goals**   * **Prevent overflow of untreated AMD from storage ponds by treating stored AMD during summer treatment campaigns and, if needed, with spring treatment.** * **Achieve USEPA criteria for discharges of treated AMD.** * **Ensure RI/FS adequately describes the nature and extent of mine waste deposited at and from the Site, evaluate the risk to human health and the environment from that waste, and evaluate reasonable alternatives for reducing the risk to acceptable levels.** * **Design and implement a remedy that restores and protects water quality and the environment to the extent feasible**. |

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| **Challenges**   * The site is remote and accessible only in the summer. The site has no permanent power or land line communications. * **The amount of needed treatment depends on the previous winter’s precipitation; amount of needed treatment may vary by a factor of 10 from year to year.** * **Storage pond volume is not sufficient for wet year storage of AMD and accumulated precipitation. To prevent overflow in wet years, spring treatment must be done during time of limited access and freezing conditions.** |

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| **Accomplishments**   * **Successfully treated historically high AMD volume stored in the ponds, making maximum volume available.** * **Continued stream flow monitoring program.** * **Removed accumulated sediment from storm water control ditches.** * **Reviewed and commented on several RI/FS work plans and reports.** |
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| **Progress to date**   * **Removed and disposed sludge generated by 2016 summer AMD treatment campaign.** * **Treated AMD to create storage capacity for subsequent winter and spring months.** * **Conducted storm drain maintenance.** * **Reported to EPA on 2016 activities – January 2017.** * **Prepared 2017 road use plan for US Forest Service – April 2017.** * **Reviewed and commented on numerous RI/FS work plans and reports prepared by AR.** * **Coordinated with AR on site activities, including AR’s attempt to demonstrate that AR’s HDS Treatment System could treat combined sources of AMD that are currently routed to three separate treatment systems.** |
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| **Performance targets for 2018**   * **Remove and dispose sludge generated by 2017 spring and summer treatment campaigns.** * **Treat stored AMD to create storage capacity for subsequent 2019 winter and spring months.** * **Conduct site maintenance – scope to be determined.** * **Report to EPA on 2017 activities – scheduled for completion February 2018.** * **Prepare Work Plan for 2018 field season – scheduled for completion March 2018.** * **Prepare 2018 road use plan for US Forest Service – scheduled for completion April 2018.** * **Review and comment on RI/FS work plans and reports prepared by AR – ongoing.** * **Coordinate with AR on site activities – ongoing.** |