

# TECHNICAL MEMORANDUM

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**To:** Nevada Environmental Response Trust

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**Cc:** Nevada Division of Environmental Protection

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**From:** Dan Pastor and Dana Grady

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**Date:** July 25, 2017

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**Subject:** Seep Well Field Area Bioremediation Treatability Study Progress Update

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this memorandum which summarizes Tetra Tech's progress made during June 2017 toward successfully implementing the Seep Well Field (SWF) Area Bioremediation Treatability Study.

## Task Progress Update: June 2017

### Task M11 – Seep Well Field Area Bioremediation Treatability Study (SWFTS)

- Task Leader – Dana Grady
- Current Status
  - Bench-scale studies performed by University of Nevada Las Vegas (UNLV) are ongoing. Preliminary batch microcosms tests have been completed and the favorable degradation results were reported in the May 2017 monthly update report. Final batch microcosm tests are now being completed. Initial results showed rapid biodegradation of nitrate within 6 to 8 days. Chlorate and perchlorate measurements are being undertaken and these results will be finalized and reported in upcoming monthly update reports. Batch EOS® adsorption and desorption tests are being performed that will aid in the design and planning of the flow-through column adsorption/desorption tests as the final phase of bench-scale testing.
  - A Water Appropriations Permit application package was filed with the Nevada Division of Water Resources on June 16, 2017.
  - Injection and monitoring well installations began on May 22, 2017 and were completed on June 23, 2017.
- Schedule and Progress Updates
  - Task remains on schedule.
  - Baseline activities, including groundwater sampling, slug testing, and nuclear magnetic resonance logging, will be begin July 10<sup>th</sup>.

- Health and Safety
  - There were no safety incidents related to Task M11 during June 2017.