

TECHNICAL MEMORANDUM

To: Nevada Environmental Response Trust

Cc: Nevada Division of Environmental Protection
United States Environmental Protection Agency

From: Dana Grady

Date: January 24, 2020

Subject: **Galleria Drive Bioremediation Treatability Study Monthly Progress Report**

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 during December 2019 toward successfully implementing the Galleria Drive Bioremediation Treatability Study.

Task Progress Update: December 2019

Task M17 – Galleria Drive Bioremediation Treatability Study

- Task Leader – Dana Grady/Dan Pastor
- Current Status
 - Field work associated with Phase 2a activities described in Treatability/Pilot Study Modification No. 8 was conducted from September 9, 2019 through October 23, 2019.
 - A review of the Phase 2a data indicates that the Upper Muddy Creek formation (UMCf) in the Phase 2a area from 60 to 85 feet bgs has very low hydraulic conductivity. Based on step-rate injection tests performed during Phase 1, hydraulic conductivity values resulted in prohibitively low injection rates, even at high pressures.
- Schedule and Progress Updates
 - Per Trust discussion with the agencies, this treatability study will be terminated. While valuable data has been obtained through the efforts associated with this study, advancement of the Las Vegas Wash Bioremediation Pilot Study and receipt of other data obtained through the course of NERT's ongoing Remedial Investigation has been analyzed by NERT and a determination has been made that further implementation of this study is no longer necessary to support the Feasibility Study.
 - A forthcoming final report will summarize the Phase 2a results.
 - This will be the final Monthly Progress Report for this study.
- Health and Safety
 - There were no safety incidents related to Task M17 during December 2019.

CERTIFICATION

Galleria Drive Bioremediation Treatability Study Monthly Progress Report

**Nevada Environmental Response Trust Site
(Former Tronox LLC Site)
Henderson, Nevada**

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the systems(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Not Individually, but Solely
as President of the Trustee

Signature: Jay A Steinberg, not individually,
but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Name: Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title: Solely as President and not individually

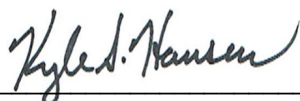
Company: Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date: 1/24/2020

CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

Description of Services Provided: Prepared Galleria Drive Bioremediation Treatability Study Monthly Progress Report.



Kyle Hansen, CEM
Field Operations Manager/Geologist
Tetra Tech, Inc.

January 24, 2020

Date

Nevada CEM Certificate Number: 2167
Nevada CEM Expiration Date: September 18, 2020