

# MEMO

Date **March 30, 2021**  
To **Nevada Environmental Response Trust**  
From **Chris Ritchie and John Pekala**  
Copy to **Nevada Division of Environmental Protection  
United States Environmental Protection Agency**  
Subject **Las Vegas Wash ZVI-Enhanced Bioremediation Treatability  
Study Monthly Progress Report**

## **TASK PROGRESS UPDATE: FEBRUARY 2021**

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Ramboll US Consulting, Inc. (Ramboll) has prepared this memorandum which summarizes Ramboll's progress during February 2021 toward successfully implementing the Las Vegas Wash Zero-Valent Iron (ZVI)-Enhanced Bioremediation Treatability Study.

## **TASK M18 – LAS VEGAS WASH ZVI-ENHANCED BIOREMEDIATION TREATABILITY STUDY**

- Task Leaders – Nick Dimarcello / Chris Ritchie
- Current Status
  - As previously reported, a data gap evaluation was completed in April 2020 consistent with Treatability/Pilot Study Modification No. 9, which was submitted to the Nevada Division of Environmental Protection (NDEP) on October 8, 2019 and approved by NDEP on October 14, 2019. Phase 2 (design and implementation of a field test) is planned to be completed in the vicinity of Las Vegas Wash Transect 1A (Transect 1A) pending submission and approval of a Work Plan Addendum, which will include Transect 1A field investigation results, bench-scale testing findings, and the Phase 2 field test design. Results of the Transect 1A bench-scale testing, which was completed in April 2020, support field testing of coarse-grain granular ZVI in the Transect 1A area and are being used to inform the Phase 2 field test design.
  - A revised draft Work Plan Addendum and supporting Cost Basis document are currently under preparation, incorporating feedback provided by the Trust and third-party reviewers.
  - The Transect 1A area is located on land owned by the City of Henderson (COH). Due to the unique nature of the proposed ZVI emplacement associated with the Phase 2 field test and how it differs from previous access requests, the Trust felt it was prudent to reengage the COH to discuss the conceptual field test design ahead of finalization and submittal of the Work Plan Addendum. As a result of the discussions between the Trust

and the COH in September and October 2020, the COH communicated to the Trust to proceed with planning of the Phase 2 field test in Transect 1A.

- A meeting with NDEP, United States Environmental Protection Agency (USEPA), the Trust, Ramboll, and Arcadis was held on February 25, 2021 and included presentation and discussion of the Phase 1 results of the treatability study and the Phase 2 field test design.
- Schedule and Progress Updates
  - A presentation of the Phase 1 results of the treatability study and the Phase 2 field test design will be provided at the Annual Stakeholder Meeting scheduled for March 24, 2021.
  - A Work Plan Addendum and supporting Cost Basis document are anticipated to be submitted to NDEP in second quarter 2021.
- Health and Safety
  - No safety incidents occurred during February 2021.

## Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study Progress Update

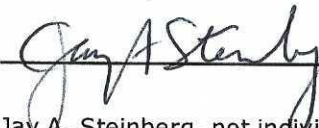
### Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

#### 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 system(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, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

**Signature:**  Not Individually, but Solely  
as President of the 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:** 3/29/21

## **Las Vegas Wash ZVI-Enhanced Bioremediation Treatability Study Progress Update**

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

### **Responsible Certified Environmental Manager (CEM) for this project**

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 provided 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.



**John M. Pekala, PG**  
**Principal**

3/30/2021

**Date**

Certified Environmental Manager  
Ramboll US Consulting, Inc.  
CEM Certificate Number: 2347  
CEM Expiration Date: September 20, 2022