

# MEMO

Date **January 2, 2020**  
To **Nevada Environmental Response Trust**  
From **John Pekala, Scott Warner, and Chris Ritchie**  
Copy to **Nevada Division of Environmental Protection  
United States Environmental Protection Agency**  
Subject **In-Situ Bioelectrochemical Laboratory-Scale  
Treatability Study Monthly Progress Report**

## **TASK PROGRESS UPDATE: NOVEMBER 2019**

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Ramboll US Corporation (Ramboll) has prepared this memorandum that summarizes Ramboll's progress during November 2019 toward successfully implementing the In-Situ Bioelectrochemical Laboratory-Scale Treatability Study for the remediation of perchlorate in water. Treatability study laboratory testing is performed at Colorado State University (CSU) via subcontract with Ramboll on behalf of NERT.

## **TASK M24 – IN-SITU BIOELECTROCHEMICAL LABORATORY-SCALE TREATABILITY STUDY**

- Task Leaders – Scott Warner / Chris Ritchie
- Current Status
  - Bench-scale testing comprising batch testing, column testing, and sand tank testing was completed in September 2019. Preparation of a report summarizing the final results of the laboratory testing program was in progress in November 2019. These results will be provided in a Laboratory-Scale Treatability Study Report as described in more detail under the heading "Schedule and Progress Updates".
- Schedule and Progress Updates
  - A Laboratory-Scale Treatability Study Report summarizing the results of the laboratory testing program (batch testing, column testing, and sand tank testing) is anticipated to be submitted to Nevada Division of Environmental Protection (NDEP) in January 2020.
- Health and Safety
  - There were no safety incidents during November 2019.

## **In-Situ Bioelectrochemical Laboratory-Scale 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:**

*Jay A. Steinberg* *not in div. capacity but solely as Pres. Lept*

**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:**

1/2/20

## **In-Situ Bioelectrochemical Laboratory-Scale 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.



January 2, 2020

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

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**Date**

Certified Environmental Manager  
Ramboll US Corporation  
CEM Certificate Number: 2347  
CEM Expiration Date: September 20, 2020