

May 1, 2017

## TECHNICAL MEMORANDUM

To: Steve Clough  
Nevada Environmental Response Trust

From: Jessica Donovan, Ramboll Environ

Re: **RI Phase 2 Modification No. 2  
Nevada Environmental Response Trust Site  
Henderson, Nevada  
Ramboll Environ Project No. 21-41400C, M03B**

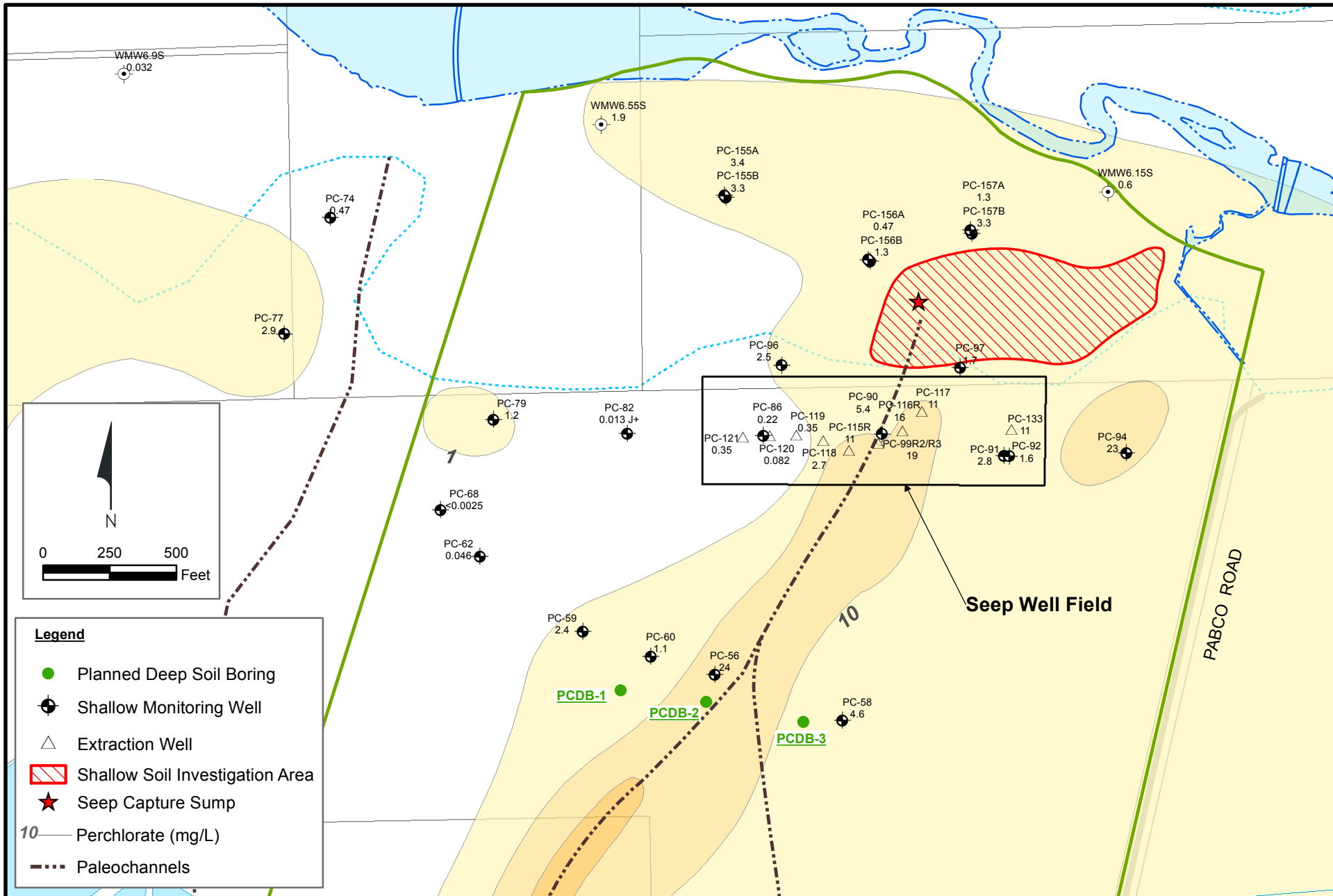
This Technical Memorandum presents Ramboll Environ's recommended Modification No. 2 to the scope of work for the Remedial Investigation (RI) Phase 2 Investigation currently in progress at the Nevada Environmental Response Trust Site (the "Site") located in Henderson, Nevada. Based on the discovery of perchlorate in the Upper Muddy Creek formation near the Seep Well Field, we are recommending a modification to the RI Phase 2 sampling plan for three borings (PCDB-1, PCDB-2, and PCDB-3) located in the Off-Site NERT RI Study Area. These three borings are located upgradient (south) of Seep Well Field (SWF), as shown on Figure 1. The current approved sampling plan is to drill these three borings to a depth of 90 feet below ground surface (ft bgs). A total of 10 soil samples are planned to be collected from depths of 5, 10, and then at 10 feet intervals to the total boring depth of 90 feet. The soil samples are scheduled to be analyzed for perchlorate, chlorate, total chromium, nitrate, volatile organic compounds (VOCs), and moisture content. The proposed modification described herein is designed to expand on the recent data; however, additional data may be needed to fully understand the vertical distribution of perchlorate in the subsurface. Once the additional data described herein are acquired, additional modifications to the Phase 2 RI may be recommended.

In order to better delineate the vertical extent of perchlorate and other chemicals of potential concern (COPCs) in the Upper Muddy Creek formation in the area upgradient of the SWF, we are recommending that these three borings be deepened to 150 ft bgs. Six additional soil samples will be collected from each boring at approximate depths of 100, 110, 120, 130, 140, and 150 ft bgs. The soil samples will be analyzed for the same constituents listed above. The additional soil sampling at borings PCDB-1, PCDB-2, and PCDB-3 will be conducted in accordance with the procedures in the approved Field Sampling Plan (FSP).

Please contact us should you have any questions about the recommended deepening of the three planned RI Phase 2 borings located upgradient of the SWF.

**Attachment**

Figure 1 RI Phase 2 Modification No. 2



Path: H:\LePetomane\NERT\RI\_Evaluation\GIS\Chemical Maps\RI Phase2 Mod 2.mxd