OFFICE OF THE NEVADA ENVIRONMENTAL RESPONSE TRUST TRUSTEE

Le Petomane XXVII, Inc., Not Individually, But Solely as the Nevada Environmental Response Trust Trustee
35 East Wacker Drive - Suite 690
Chicago, Illinois 60601
Tel: (702) 960-4309

March 19, 2020

Dr. Weiquan Dong, P.E. Bureau of Industrial Site Cleanup Nevada Division of Environmental Protection 2030 E. Flamingo Rd, Suite 230 Las Vegas NV 89119

RE: Phase 3 Remedial Investigation Modification No. 8, Revision 1

Nevada Environmental Response Trust

Henderson, Nevada

Dear Dr. Dong:

The Nevada Environmental Response Trust (NERT) is pleased to present the revised Phase 3 Remedial Investigation (RI) Modification No. 8 for Nevada Division of Environmental Protection (NDEP) review. This revised RI modification addresses NDEP comments in your February 3, 2020 letter. As requested, an annotated response to comments is also attached to this letter. All data obtained as a result of the proposed effort will be evaluated in the forthcoming RI Report for OU-3 and will aid in determining the nature of perchlorate mass flux increases observed in 2019 at Northshore Road.

If you have any questions or concerns regarding this matter, feel to contact me at (702) 960-4309 or at steve.clough@nert-trust.com.

Office of the Nevada Environmental Response Trust

Stephen R. Clough, P.G., CEM

Stephen R. Clough

Remediation Director

CEM Certification Number: 2399, exp. 3/24/21

Cc (via NERT Sharefile Distribution):

Jeff Kinder, NDEP, Deputy Administrator

Frederick Perdomo, NDEP, Deputy Administrator

James Dotchin, NDEP, Chief, Bureau of Industrial Site Cleanup

Carlton Parker, NDEP, Bureau of Industrial Site Cleanup

Alan Pineda, NDEP, Bureau of Industrial Site Cleanup

Christa Smaling, NDEP, Bureau of Industrial Site Cleanup

Alison Fong, U.S. Environmental Protection Agency, Region 9

Mark Duffy, U.S. Environmental Protection Agency, Region 9

Jay Steinberg, as President of the Nevada Environmental Response Trust Trustee and not individually

Andrew Steinberg, as Vice President of the Nevada Environmental Response Trust Trustee and not individually Brian Loffman, Le Petomane, Inc.

Brian Lomman, Le Petomane, Inc.

Tanya C. O'Neill, Foley and Lardner, LLP

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Allan DeLorme, Ramboll John Pekala, Ramboll Kim Kuwabara, Ramboll Dan Pastor, Tetra Tech David Bohmann, Tetra Tech

Cc (via NERT Stakeholder Sharefile Distribution):

Betty Kuo, Metropolitan Water District of Southern California Brenda Pohlmann, City of Henderson Carol Nagai, Metropolitan Water District of Southern California Dave Johnson, LV Valley Water District David Parker, Central Arizona Project Eric Fordham, Geopentech Jill Teraoka, Metropolitan Water District of Southern California Kevin Fisher, LV Valley Water District Marcia Scully, Metropolitan Water District of Southern California Maria Lopez, Metropolitan Water District of Southern California Mauricio Santos, Metropolitan Water District of Southern California Mickey Chaudhuri, Metropolitan Water District of Southern California Orestes Morfin, Central Arizona Project Peggy Roefer, Colorado River Commission Steven Anderson, LV Valley Water District Todd Tietjen, Southern Nevada Water Authority

Cc (via NERT BMI Companies Sharefile Distribution):

Anna Springsteen, Neptune Inc.

Kirk Stowers, Broadbent Inc.

Kristen Lockhart, Neptune Inc.

Kurt Fehling, The Fehling Group

Patti Meeks, Neptune Inc.

Paul Black, Neptune Inc.

Paul S. Hackenberry, Hackenberry Associates

John Edgcomb, Edgcomb Law Group

Andrew Barnes, Geosyntec

Brian Waggle, Hargis + Associates

Chinny Esakkiperumal, Olin Corporation

Chuck Elmendorf, Stauffer

Curt Richards, Olin Corporation

Dave Share, Olin Corporation

Ebrahim Juma, Clean Water Team

Ed Modiano, de maximus

Gary Carter, Endeavour LLC

George Crouse, Syngenta

Jeff Gibson, Endeavour LLC

Joanne Otani, Joanne M. Otani LLC

Joe Kelly, Montrose Chemical

Joe Leedy, Clean Water Team

Kelly McIntosh, GEI Consultants

Kevin Lombardozzi, Valhi

Kyle Gadley, Geosyntec

Lee C. Farris, Landwell

Mark Paris, Landwell

Michael Bogle, Womble Carlyle Sandridge & Rice, LLP

Michael Long, Hargis + Associates

Nick Pogoncheff, PES Environmental, Inc.

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Ranajit Sahu, BRC Richard Pfarrer, TIMET Rick Kellogg, BRC John Holmstrom, EMD

NDEP Comment Response to Comment Deliverable Comments 1. One of this modification goals is to determine the perchlorate The elevation changes in ground surface and hydraulic gradient between the USGS well (USGS-SE) and the north side of the Las plume extent in northern bank of the Las Vegas Wash. The new wells proposed are not well justified if they will be appropriate Vegas Wash (LVW) have been further evaluated based on current locations to be determined the northern extent of the perchlorate knowledge of conditions on the north side of the wash and the plume. NDEP suggests that NERT study all existing data of the results of these evaluations have been discussed and illustrated in groundwater table elevations and perchlorate concentrations and the Modification No. 8 Technical Memorandum to provide additional draw possible contours of groundwater table elevations and justification for the planned drilling/well locations on the north side perchlorate concentrations. New wells should be placed to of the LVW. The positions for the N-1 through N-7 investigation potential perchlorate plume extent that is based on either the locations have been selected to provide the additional data BMI Regional Goals and Directives (NDEP, 2016) or 18 ppb that necessary to understand hydraulic gradients, groundwater flow the Nevada Division of Environmental Protection has established directions, and perchlorate concentrations north of the LVW. as a provisional action level for Nevada. Additional deeper well NERT3.60S1-D, to be screened from 63 to 2. "Nested groundwater monitoring wells on the south side of the LVW adjacent to the Three Kids Weir are needed to better 78 ft below ground surface (bgs), has been added to the understand the geology, hydrology, and contaminant transport Modification No. 8 scope of work. This new well will be adjacent to in this area." Was recommended in the Data Gap Investigation the Three Kids Weir and will form a cluster with existing well Phase II Groundwater Quality Assessment (AECOM, November, NERT3.60S1, which is screened from 35 to 55 ft bgs. This will provide nearly 100 percent screened coverage from the top of the 2019). NDEP suggests NERT address this recommendation in this water table (approximately 35 ft bgs) to competent bedrock modification. (approximately 78 ft bgs) at this location and will provide additional information regarding geology, hydrogeology, and contaminant transport near the Three Kids Weir. 3. NDEP suggests that NERT run particle tracking from upper To assist the positioning of the S-1 through S-7 drilling locations, gradient high groundwater perchlorate concentration areas of Ramboll conducted a groundwater particle tracking evaluation the proposed transects and estimate the perchlorate mass flux between Galleria Drive and the LVW using the Phase 6 Model. An crossing the transects (S-1 to S-7) with Phase 6 model and additional figure (Figure 3) was added to the Modification No. 8 justify if these transects are needed. Technical Memorandum to present the results of the particle tracking evaluation showing the hypothetical flow paths of particles released along Galleria Drive. The results of this evaluation, as discussed in the Technical Memorandum, illustrate that the S-1 through S-7 drilling locations are well positioned to provide the data necessary to fulfill the objectives of the proposed scope of work. The locations of S-6 and S-7 are particularly well situated to evaluate groundwater conditions along the projected paleochannel identified beneath the Weston Hills neighborhood.

1/1 Ramboll