

**P&D ENVIRONMENTAL, INC.**  
**55 Santa Clara Avenue, Suite 240**  
**Oakland, CA 94610**  
**(510) 658-6916**

November 20, 2017  
Letter 0772.L1

Ms. Dilan Roe  
Land Use, Local Oversight, & Voluntary Remedial Action Program  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, CA 94502

**SUBJECT:   SUBSURFACE INVESTIGATION POTENTIAL CROSS CONTAMINATION LETTER**  
County Case Number RO0003269  
Urban Designs, LLC Site (Former Phoenix Iron Works Site)  
800 Cedar Street  
Oakland, CA

Dear Ms. Roe:

In response to your November 20, 2017 request, this letter is written to address potential cross contamination associated with the pending subsurface geotechnical investigation by Rockridge Geotechnical, Inc. of Oakland, California (Rockridge) at the subject site.

I have reviewed the Rockridge proposal for the proposed investigation work scope and a site map showing proposed geotechnical investigation locations. Based on review of the proposal and a telephone discussion with Mr. Clayton Proto of Rockridge, the geotechnical investigation will consist of cone penetration testing (CPTs) which will likely consist of as many as four CPTs to a depth of 50 feet below ground surface (bgs) and six CPTs to a depth of 30 feet bgs. Mr. Proto provided the following description of grouting procedures for the subsurface investigation.

The CPTs will be advanced using equipment operated by a California C-57 licensed driller. Procedures will be implemented to seal the CPT borings and reduce the risk of the installation of preferential pathways. Immediately following advancement of the CPTs, a hollow, non-instrumented CPT probe will be re-advanced down the holes to the full depth of the sounding to facilitate tremie-grouting from the bottom up, in accordance with ACPWA requirements and under the intermittent observation of their grout inspector. The surface CPT location holes will be patched with quickset concrete.

I have also reviewed a CPT log provided by Mr. Proto which was originally obtained during an investigation performed by the U.S. Geological Survey at the northeast corner of the subject site at the intersection of 9<sup>th</sup> Street and Pine Street. The CPT log extends to a depth of approximately 45 feet bgs. Based on my discussion with Mr. Proto the subsurface materials encountered in the CPT borehole were identified as fine-grained sand, with the exception of fine-grained material (silt or clay) between the depths of approximately 20 and 22 or 23 feet bgs. This description of subsurface materials encountered in the CPT boring is consistent with historical site investigation boring logs and the historical identification of subsurface materials at the site as consisting of Merritt Sand.

November 20, 2017

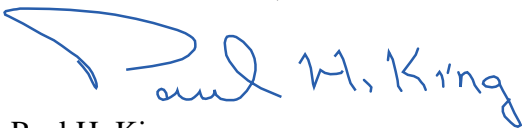
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Based on my discussion with Mr. Proto regarding Rockridge procedures for grouting site geotechnical investigation borings, my having advised Mr. Proto to observe procedures identified in our DRAFT Soil and Groundwater Management Plan (SGMP) for the site when performing work at the site, my review of historical site contamination investigation results, and our summary of site contaminant concentrations exceeding Tier 1 screening levels as provided in our DRAFT SGMP for the site and which shows a limited amount of contamination present at the site, the proposed geotechnical investigation will not cause cross contamination at the site.

If you have any questions, please do not hesitate to contact me at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.



Paul H. King  
Professional Geologist # 5901

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