



December 16, 2022

Nicole Yuen
California Department of Toxic Substances Control
700 Heinz Avenue, Suite 200C
Berkeley, California 94710

Via email: Nicole.Yuen@dtsc.ca.gov

**Subject: Notification of Piezometer DHR Abandonment
Richmond Field Station, UC Berkeley**

Dear Ms. Yuen:

During the October 2022 groundwater levels monitoring event, piezometer DHR was discovered to have been destroyed by Richmond Field Station (RFS) staff inadvertently during nearby stormwater maintenance activities. DHR is located west of B201 and north of B128 in the southeastern portion of RFS. The top 2 feet of the piezometer were destroyed and removed, and the remaining portion remains in place.

Piezometer DHR consists of a 2-inch PVC piezometer with a depth of 14 feet below ground surface (bgs), screened from 3.5 to 13.5 feet bgs. The piezometer will be abandoned and decommissioned according to Contra Costa County Health and Safety Division "Annular Seal and Well Destruction Materials" specification. The piezometer will be over-drilled, removed, and the entire borehole will be grouted. The piezometer materials removed will be drummed as investigation-derived waste (IDW).

Permits will be requested prior to abandonment and a copy of the Well Driller's Report will be submitted to Contra Costa Environmental Health and the State Department of Water Resources so that UC Berkeley can receive final destruction approval.

UC Berkeley does not propose to install a replacement piezometer for DHR, which is a replacement for the original DH, which was no longer usable due to intruding roots in 2013. DH was installed in 2010 to help determine if groundwater impacts were caused by a reported explosion at the former California Cap Company Dry House. Perchlorates, polyaromatic hydrocarbons, and explosives residue were added to the list of target analytes for laboratory analysis at DH. Groundwater results from four concurrent monitoring events did not indicate evidence of contamination from an explosion and those analytes were discontinued. Under the current groundwater monitoring program, DHR is scheduled for sampling every other year for metals only.

Results from DHR are not critical and do not impact any ongoing groundwater monitoring efforts, as DHR is surrounded by four nearby piezometers: B278 to the north, CCC2 to the west, B128 to the south, and EPA to the east. All piezometers are shown on the attached figures which represent the most current wet and dry season groundwater elevation contours from the 2021 Groundwater Sampling Results, Technical Memorandum, dated June 6, 2022.

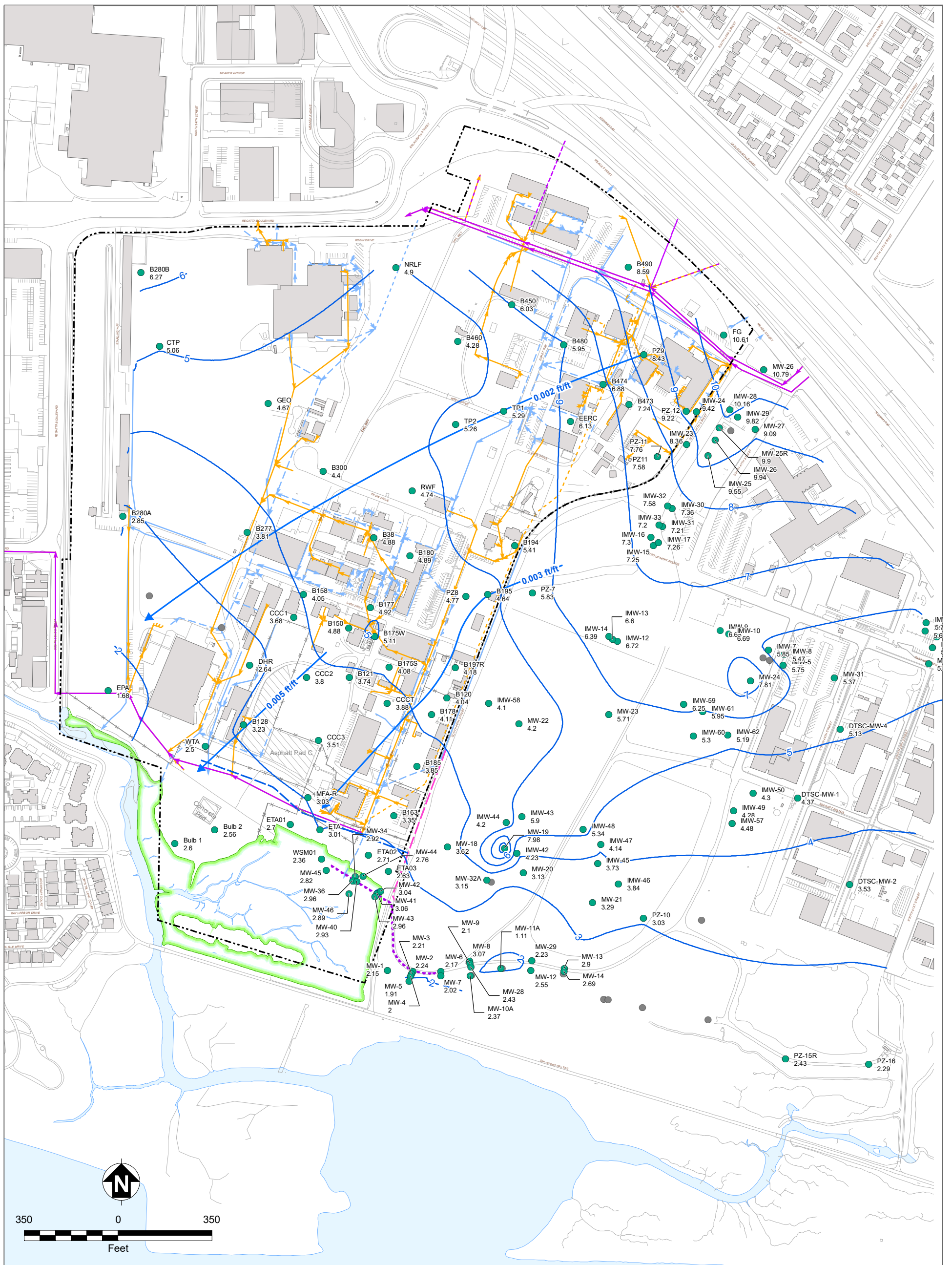
If you have any questions or comments regarding this submittal, please call me at (415) 497-9060 or Alicia Bihler at (510) 725-2528.

Sincerely,


Jason Brodersen, PG
Program Manager

cc: Alicia Bihler, UC Berkeley EH&S

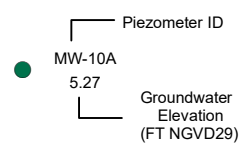
Attachments: Figure 23 Shallow Groundwater Elevation Contours, October 5, 2020
Figure 24 Shallow Groundwater Elevation Contours, April 5, 2021



- Piezometer Groundwater Elevation Measured in October 2020
- Piezometer Groundwater Elevation Not Measured in October 2020
- Estimated October 2020 Groundwater Contour
- ➔ Estimated Horizontal Groundwater Gradient Direction (Value)
- ▭ Existing Building
- ▭ Asphalt/Concrete Pad
- ▭ Surface Water
- ▭ Marsh Boundary
- Richmond Field Station Site Boundary
- Roads and Other Landscape Features
- Fenceline
- BAPB Wall
- Former Seawall (Approximate)
- Slurry Wall

- Sanitary Sewer Lines:**
- Existing City of Richmond Sewer
 - Abandoned City of Richmond Sewer
 - Existing RFS Sewer
 - Abandoned RFS Sewer
- Storm Drain Lines:**
- Open Swale
 - Underground Culvert
 - Gutters
 - Underground Culvert, Abandoned (Grouted at Manholes)

Note:
 All data points surveyed to NGVD29.
 Mean sea level = NGVD29 elevation (in feet) - 0.58 feet and mean sea level datum representative of Stege Marsh is derived from NOAA Richmond Inner Harbor tide gauge.



Richmond Field Station Site
 University of California, Berkeley

FIGURE 23
SHALLOW GROUNDWATER
ELEVATION CONTOURS,
OCTOBER 5, 2020

