

Draft 2018 Groundwater Sampling Results Technical Memorandum
University of California, Richmond Field Station
July 27, 2018

Response to Comments
Department of Toxic Substances Control
October 25, 2018

UC Berkeley Ref. No.	Page / Sect No.	DTSC Comment No.	DTSC Comment	UC Berkeley Response
1	Page 3, Section 2.2 Groundwater Sampling	1	This section states that groundwater samples were collected and placed in coolers containing ice. At the end of every other field day, the samples were then delivered to the analytical laboratory. Provide a description stating where the samples were stored, and how chain-of-custody and proper preservation was maintained.	Text will be amended to clarify that the samples were stored in RFS Building 185, which is locked at all times, and that fresh ice was added to each sample cooler every morning.
2	Section 5.3.1 Sample Delivery Group 298607	2	This section indicates that the chain-of-custody form did not include a sample analysis request for sample 20180503PZ9, and two VOA vials labeled "TB" were not listed on the COC form. The laboratory made assumptions and analyzed the samples for VOCs. Indicate what corrective measures will be instituted for future sampling events to ensure that similar incidents do not occur.	Prior to the initiation of the next field sampling event, the field team will be reminded of thorough quality control checks of samples with chain-of-custody forms. There are no changes proposed to the report text.
3	Section 5.3.2 Sample Delivery Group 298682	3	This section states that one sample arrived at the laboratory without identifying information on the label. The laboratory was able through the process of elimination to identify the sample. Indicate what corrective measures will be instituted for future sampling events to ensure that a similar incident does not occur.	Prior to the initiation of the next field sampling event, the field team will be reminded of thorough quality control checks of sample labels with chain-of-custody forms. There are no changes proposed to the report text.

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4	Sections 5.3.1 and 5.3.2	4	Both sections state that VOA vials contained air bubbles. Indicate whether modification to sample collection procedures can be made to eliminate the bubbles from the vials. Also, both VOAs used as the trip blank for sample delivery group 298607 contained air bubbles. If the laboratory is preparing trip blanks, all VOA vials should be inspected and those with air bubbles should be rejected by the sampling team. If the trip blanks are being prepared by the sampling team, they should also be inspected and any containing bubbles should be rejected. Indicate in the Technical Memorandum what corrective measures will be instituted for future sampling events.	<p>Prior to the initiation of the next field sampling event, the Tetra Tech project manager will meet with the field team to discuss the proper protocols for collecting samples for volatile analyses, according to standard operating procedures.</p> <p>Trip blanks are provided by the laboratory and will be rejected in the future if they contain air bubbles.</p> <p>Section 7.2 will be amended to clarify that the tailgate meeting for the 2019 groundwater event will specifically discuss the protocols for collection of groundwater for volatiles analysis, as well as the rejection of trip blanks with air bubbles.</p>
5	Page 16, Trichloroethene	5	The text references figure 22 in the discussion; however, figure 25 presents TCE concentrations. Revise the text.	Text will be amended to indicate Figure 24 as the correct figure presenting trichloroethene data.