DATA QUALITY REVIEW SHEET

Facility ID:	752722	Project:	TEP Starkey Gulch Pit BWQ
Station Name:	Puckett 185334	Lab Sample ID:	18021605-02
Sample Date:	2/27/2018	QA/QC Review Date:	3/7/2018
Field Sample ID:	752722	Reviewer:	S. Goodwin

Field Sampling Data Review	**Yes**	**No**	**N/A**
1. Well properly purged?	☒	☐	☐
2. Flow rate reduced prior to sampling?	☒	☐	☐
3. Water quality parameters stable prior to sampling?	☒	☐	☐
4. Field instruments calibrated properly?	☒	☐	☐
5. Sampling methods performed according to SAP procedures?	☒	☐	☐
6. Procedures consistent with obtaining a representative sample?	☒	☐	☐
Lab Data Report Review			
7. Proper sample custody maintained until laboratory receipt?	☒	☐	☐
8. Receipt form is without discrepancies? *If no, list in comments.*	☐	☒	☐
9. All samples analyzed for the requested analyses?	☒	☐	☐
10. Proper laboratory methods used?	☒	☐	☐
11. All sample holding times met (other than lab pH)?	☒	☐	☐
12. Lab QA samples (e.g., matrix spikes and matrix spike duplicates) collected and analyzed according to lab method and results within method acceptance limits?	☐	☒	☐
13. Was the field investigation sample matrix used by the lab for matrix QC for all analyses?	☐	☒	☐
14. Laboratory qualifiers for data (other than non-detect)? *List in comments*.	☒	☐	☐
15. Additional qualifiers assigned (other than pH)?	☒	☐	☐
16. Are corrective actions required? *If yes, list actions and dates to be completed by:*	☐	☒	☐
Corrective Action	*Date to be completed*		
None			

Calculated Parameters	**Calculated Value**	**Lab Value**	**Ratio/Percent Difference**	**Acceptable Limit**	**Meets QC Criteria?**
Cation/Anion Balance, % (CAB)	1.713	N/A	N/A	±5%	☒
Total Dissolved Solids, mg/L (TDS)	946	800	1.18	0.8 – 1.2	☒
Specific Conductance, µS/cm (SpC)	1194	1200	1.00	0.8 – 1.2	☒

Comments: Custody seals were not used on the shipping container. Laboratory pH was analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. WWL assigned an "E" qualifier to the following field duplicate results for exceeding the RPD criteria: iron related bacteria, slime forming bacteria, and sulfate reducing bacteria; the results are considered estimated. MS recoveries were outside of control limits for total phosphorus and strontium (high 1%, low 7%, respectively); and MSD recoveries were outside of control limits for total phosphorus and calcium (high 1%, low 2%, respectively). The lab did not qualify these results because the result in the parent sample was greater than 4x the spike amount. "J" qualifier assigned to selenium and bromide sample results and to boron, potassium, sodium, and strontium method blank results to indicate a result greater than the method detection limit

but less than the reporting limit.