DATA QUALITY REVIEW SHEET

Facility ID:	755924	Project:	TEP PA 22-25: 609 1st Sub
Station Name:	Naugle 67992-F	Lab Sample ID:	1904407-1
Sample Date:	4/18/2019	QA/QC Review Date:	6/5/2019
Field Sample ID:	Naugle Well	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)	3.789	N/A	N/A	±5%	☒
Total Dissolved Solids, mg/L (TDS)	5438	5200	1.05	0.8 – 1.2	☒
Specific Conductance, µS/cm (SpC)	7761	6410	1.21	0.8 – 1.2	☐

Comments: The ALS lab courier did not use custody seals on the shipping containers. Laboratory pH was analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. "J" qualifier assigned to iron sample results and to boron, iron, manganese, selenium, sodium, nitrate/nitrite, and nitrate method blank results to indicate a result greater than the method detection limit but less than the reporting limit. MS recoveries were outside of control limits for bromide (low 3%). "N" qualifier assigned to bromide to indicate the spiked sample was not in recovery; the native sample concentration is less than four times the spike added concentration. The lab reported that the LCS indicated the procedure was in control and no further action was necessary. Specific Conductivity ratio slightly outside of QC criteria, but data not qualified.