DATA QUALITY REVIEW SHEET

Facility ID:	707356	Project:	TEP 317B: GV 80-4 Nov/Dec '17
Station Name:	BM 2	Lab Sample ID:	1802061-01
Sample Date:	1/31/2018	QA/QC Review Date:	2/13/2018
Field Sample ID:	BM 2	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*
GRO to be investigated and reanalyzed.	2/23/2018

Calculated Parameters	**Calculated Value**	**Lab Value**	**Ratio/Percent Difference**	**Acceptable Limit**	**Meets QC Criteria?**
Cation/Anion Balance, % (CAB)	1.733	N/A	N/A	±5%	☒
Total Dissolved Solids, mg/L (TDS)	685	650	1.05	0.8 – 1.2	☒
Specific Conductance, µS/cm (SpC)	970	1100	0.88	0.8 – 1.2	☒

Comments: No custody seals were used on the shipping container. Laboratory pH was analyzed out of analysis holding time, WWL qualified with "H"; result considered estimated. "J" qualifier assigned to nitrate and iron sample results and to sodium method blank results to indicate a result greater than the method detection limit but less than the reporting limit.

GRO was detected at 2,600 ug/L in the original results. The lab was contacted and asked to reanalyze the sample for GRO. GRO was not detected in the reanalysis; it was found that the original sample contained carry-over from a previously analyzed sample. The lab revised the report and submitted a non-compliance action report to remedy the

issue internally.

MS and MSD recoveries were outside of control limits for the following:

Analyte	MS Recovery (%)	MSD Recovery (%)	Recovery Limits (%)
DRO	165	NM	60-150
GRO	75.7	56.8	76-126
Ethylbenzene	(in limits)	124	78-113
Nitrate	81.5	80.8	90-110
Nitrate	86.1	84.5	90-110
Sodium	60.1	42.6	75-125