

DATA QUALITY REVIEW SHEET

ECMC Facility ID: 753876
 Station Name: Tompkins Savage
 Sample Date: 7/12/2023
 Field Sample ID: Tompkins Savage

Operator: TEP Rocky Mountain LLC
 Drill Pad: Tompkins Pad
 Purpose: 2nd Subsequent Rule 615
 Lab Sample ID: 2307129-02

Field Sampling Data Review	Yes	No	N/A
1. Well properly purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Flow rate reduced prior to sampling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Water quality parameters stable prior to sampling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Field instruments calibrated properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Sampling methods performed according to SAP procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Procedures consistent with obtaining a representative sample?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lab Data Report Review			
7. Proper sample custody maintained until laboratory receipt?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Receipt form is without discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Samples received at the recommended water temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. All samples analyzed for the requested analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Proper laboratory methods used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. All sample holding times met besides pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Lab QC samples (LCS, LCSD, MB, MS, and MSD) collected and analyzed according to lab method and results within method acceptance limits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Was the field investigation sample matrix used by the lab for matrix QC for all analyses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15. Laboratory qualifiers for sample results (other than non-detect)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Additional qualifiers assigned by WWL to the sample results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Were submitted trip blanks acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Are corrective actions required? <i>If yes, list actions and dates to be completed by:</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>Corrective Action</i>	<i>Date to be completed</i>		
None	N/A		

Calculated Parameters	Calculated Value	Measured Lab Value	Ratio/Percent Difference	Acceptable Limit	Meets QC Criteria?
Cation/Anion Balance, % (CAB)	3.07%	2.98%	N/A	2%	<input type="checkbox"/>
Total Dissolved Solids, mg/L (TDS)	287	320	1.12	1.0 – 1.2	<input checked="" type="checkbox"/>
Specific Conductance, $\mu\text{S}/\text{cm}$ (SpC)	478	520	0.92	0.9 – 1.1	<input checked="" type="checkbox"/>
TDS/SpC, calculated	N/A	N/A	0.60	0.55-0.7	<input checked="" type="checkbox"/>
TDS/SpC, lab measured	N/A	N/A	0.62	0.55-0.7	<input checked="" type="checkbox"/>
Anion (meq/L):SpC	N/A	N/A	1.14	0.9 – 1.1	<input type="checkbox"/>
Cation (meq/L):SpC	N/A	N/A	1.07	0.9 – 1.1	<input checked="" type="checkbox"/>

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Comments:

- Laboratory pH analysis exceeded holding time by two days. Nitrate as N and nitrite as N analysis exceeded holding time by less than one day. GAL assigned an “H5” qualifier to pH. GAL assigned an “H1” qualifier to nitrate as N and nitrite as N. WWL assigned an “H” qualifier to results that exceeded holding time.
- The CAB was not within the acceptable limit. WWL assigned an “O” qualifier to the CAB parameter.
- GAL assigned a “J” qualifier to boron. GAL assigned an “M5” qualifier to total N.
- Nitrite as N, calcium, and sodium were not within method control limits.
- Sample Tompkins Savage was selected for MS and MSD testing of nitrate as N and nitrite as N.

Data Suitability Statement

Based upon this data quality review and your professional judgement, have the data been collected and analyzed in general accordance with the ECMC Model Sampling and Analysis Plan?	<input checked="" type="checkbox"/>
Are the data suitable for release for incorporation into the ECMC Environmental Database?	<input checked="" type="checkbox"/>
The inorganic data are qualified due to QC criteria not being met; data are considered estimated and released for incorporation into the ECMC Environmental Database.	<input checked="" type="checkbox"/>
Data Reviewer's Name: Taralee Mautz	Company: Western Water & Land, Inc.
Reviewer's Signature: <i>Taralee Mautz</i>	Date: 9/1/2023