

## DATA QUALITY REVIEW SHEET

COGCC Facility ID: 753175  
 Station Name: Metcalf 69030-F  
 Sample Date: 3/25/2021  
 Field Sample ID: Metcalf 69030-F

Operator: TEP Rocky Mountain LLC  
 Drill Pad: Nolte 14-44  
 Purpose: Rule 615 5-Year Subsequent  
 Lab Sample ID: 2103516-1

Field Sampling Data Review	Yes	No	N/A
1. Well properly purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Flow rate reduced prior to sampling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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)	4.398%	N/A	N/A	5%	<input checked="" type="checkbox"/>
Total Dissolved Solids, mg/L (TDS)	6769	5700	0.84	1.0 – 1.2	<input type="checkbox"/>
Specific Conductance, $\mu\text{S}/\text{cm}$ (SpC)	8507	7980	1.07	0.9 – 1.1	<input checked="" type="checkbox"/>
TDS/SpC, calculated	N/A	N/A	0.80	0.55-0.7	<input type="checkbox"/>
TDS/SpC, lab measured	N/A	N/A	0.71	0.55-0.7	<input type="checkbox"/>
Anion (meq/L):SpC	N/A	N/A	1.43	0.9 – 1.1	<input type="checkbox"/>
Cation (meq/L):SpC	N/A	N/A	1.31	0.9 – 1.1	<input type="checkbox"/>

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**Comments:**

The sample receipt for sample Metcalf 69030-F indicated that the total phosphorus sample was not preserved properly, and 0.5 mL of H<sub>2</sub>SO<sub>4</sub> was added to lower the pH from 6 to below 2.0. Total dissolved solids was analyzed eleven days out of holding time; WWL assigned an "H" qualifier to indicate the result is estimated. Boron had a result of -0.034 mg/L in the MB was assigned a "J" qualifier to indicate the result was detected above the method detection limit but below the reporting limit. No sample results were assigned qualifiers by the laboratory with the exception of a "J" qualifier assigned to selenium to indicate a result greater than the method detection limit but less than the reporting limit (result is estimated).

**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 COGCC Model Sampling and Analysis Plan?	<input checked="" type="checkbox"/>		
Are the data suitable for release for incorporation into the COGCC Environmental Database?	<input checked="" type="checkbox"/>		
<b>Data Reviewer's Name:</b>	Trevor Smith	<b>Company:</b>	Western Water & Land, Inc.
<b>Reviewer's Signature:</b>		<b>Date:</b>	7/7/2021