

## DATA QUALITY REVIEW SHEET

COGCC Facility ID: 754072  
 Station Name: Tompkins MW-1  
 Sample Date: 3/8/2022  
 Field Sample ID: Tompkins MW-1

Operator: TEP Rocky Mountain LLC  
 Drill Pad: Tompkins Pad  
 Purpose: Rule 411 Nov/Dec 2021  
 Lab Sample ID: 2203154-1

| 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 checked="" type="checkbox"/> | <input 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 checked="" type="checkbox"/> | <input type="checkbox"/>            | <input 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)                       | 4.848%           | N/A                | N/A                      | 2%               | <input type="checkbox"/>            |
| Total Dissolved Solids, mg/L (TDS)                  | 270              | 0                  | 0.00                     | 1.0 – 1.2        | <input type="checkbox"/>            |
| Specific Conductance, $\mu\text{S}/\text{cm}$ (SpC) | 0                | 485                | 0.00                     | 0.9 – 1.1        | <input type="checkbox"/>            |
| TDS/SpC, calculated                                 | N/A              | N/A                | 0.00                     | 0.55-0.7         | <input type="checkbox"/>            |
| TDS/SpC, lab measured                               | N/A              | N/A                | 0.00                     | 0.55-0.7         | <input type="checkbox"/>            |
| Anion (meq/L):SpC                                   | N/A              | N/A                | 1.07                     | 0.9 – 1.1        | <input checked="" type="checkbox"/> |
| Cation (meq/L):SpC                                  | N/A              | N/A                | 1.18                     | 0.9 – 1.1        | <input type="checkbox"/>            |

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**Comments:**

All sampling procedures followed the COGCC SAP (Version 2 – April 2020) for Rule 411. Dissolved metals were filtered by the laboratory upon arrival. The sample, Tompkins MW-1, was shipped to ALS on March 8, 2022 and received by ALS in one cooler on March 9, 2022. The cooler was within the temperature range criteria (0-6°C), measuring 0.9°C. For sample Tompkins MW-1, laboratory pH associated with the sample was analyzed 2 days out of holding time; WWL assigned an “H” qualifier to indicate the results are estimated. The CAB was not within the acceptable limit. **Therefore, WWL has taken the cautionary measure to reject the inorganic data for these samples.** ALS did not detect TDS for the sample (<20 mg/L) and this is a suspected error as dissolved constituents were indicated as present in the analysis resulting in a calculated TDS of 270 mg/L. As a result, the TDS ratio for Tompkins MW-1 did not fall within acceptable limits. WWL qualified Tompkins MW-1 sample TDS data as “Rejected”. based on low TDS ratio results meaning the results are estimated. All of the MBs used to assess background contamination or other interferences with analytic instrumentation yielded “Not Detected” results with the exception of calcium being qualified with a J qualifier by ALS. A “J” qualifier was assigned for the analysis for total phosphorus. ALS reports samples that are detected but below the reporting limit as “J” meaning the result is an estimated concentration. No additional qualifiers were assigned by WWL because of lab precision or accuracy.

**Data Suitability Statement**

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|---|--|
| 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"/>        |
| The inorganic data are qualified due to QC criteria not being met; data are considered estimated and released for incorporation into the COGCC Environmental Database.                | <input checked="" type="checkbox"/>        |
| <b>Data Reviewer's Name:</b> Charles Jones  | <b>Company:</b> Western Water & Land, Inc. |
| <b>Reviewer's Signature:</b>   | <b>Date:</b> 8/24/2022                     |