

DATA QUALITY REVIEW SHEET

ECMC Facility ID: 755924
 Station Name: Naugle 67992-F
 Sample Date: 10/23/2024
 Field Sample ID: Naugle 67992-F

Operator: TEP Rocky Mountain LLC
 Location: PA 64-24
 Purpose: Rule 615 2-Year Subsequent
 Lab Sample ID: L1792039-01

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 all matrix QC?	<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>		
	N/A		

Calculated Parameters	Calculated Value	Measured Lab Value	Ratio/Percent Difference	Acceptable Limit	Meets QC Criteria?
Cation/Anion Balance, % (CAB)	5.66	N/A	N/A	5%	<input type="checkbox"/>
Total Dissolved Solids, mg/L (TDS)	5251	5500	1.05	1.0 – 1.2	<input checked="" type="checkbox"/>
Specific Conductance, $\mu\text{S}/\text{cm}$ (SpC)	8209	7180	1.14	0.9 – 1.1	<input type="checkbox"/>
TDS/SpC, calculated	N/A	N/A	0.64	0.55-0.7	<input checked="" type="checkbox"/>
TDS/SpC, lab measured	N/A	N/A	0.77	0.55-0.7	<input type="checkbox"/>
Anion (meq/L):SpC	N/A	N/A	1.12	0.9 – 1.1	<input type="checkbox"/>
Cation (meq/L):SpC	N/A	N/A	1.26	0.9 – 1.1	<input type="checkbox"/>

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Comments:

- The CAB was not within the acceptable limit. WWL assigned an “O” qualifier to these results.
- The specific conductance ratio was not within the acceptable limit.
- Laboratory pH analysis exceeded holding time by 2 days. Pace assigned a “T8” qualifier to these results.
- Sample results for phosphorous, bromide, boron, TPH low fraction (GRO), diesel range organics C10-C28 (DRO), and motor oil range organics C28-C36 (MRO) were assigned “J” qualifiers by Pace.
- Phosphorous, GRO, and MRO were assigned “B” qualifiers by Pace.
- Analyte was detected in the method blanks for phosphorous, GRO, and MRO.
- Pace selected Naugle 67992-F for precision testing of phosphorous, pH, specific conductance, methane, ethane, and propane.
- Quality control samples for nitrate as (N), nitrate-nitrite, sulfate, chloride, and sodium were assigned qualifiers for accuracy. All quality control samples that received qualifiers for accuracy came from outside sources.
- Phosphorous was assigned “J” QC qualifier for precision based on the Naugle 67992-F sample. All other quality control samples that received qualifiers for precision came from outside sources.

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 one or more QC criteria not being met; data are considered estimated and provisionally released for incorporation into the ECMC Environmental Database.	<input checked="" type="checkbox"/>		
Data Reviewer's Name:	Thomas Prichard	Company:	Western Water & Land, Inc.
Reviewer's Signature:	<i>Thomas Prichard</i>	Date:	1/16/2025