# DATA VALIDATION SUMMARY REPORT

**for Samples Collected During**

**Groundwater Monitoring**

**Fort Wingate Depot Activity**

**McKinley County, New Mexico**

Data Validation by: Kortney Curry

Project Manager: Carrie Ross

Report Date: 2/14/25

Parsons – Austin

## INTRODUCTION

The following data validation summary report covers seventeen (17) water samples, and associated field quality control (QC) samples collected on October 7, 2024, at Fort Wingate Depot Activity (FWDA), located in McKinley County, New Mexico. The samples were logged under Sample Delivery Group (SDG) 280-197680.

The samples in this SDG were analyzed for the following parameters: orthophosphate as P by EPA Method 365.1 and anions by U.S. EPA Method 9056A.

All samples were collected by Eco & Associates, Inc. (ECO) and were submitted for analysis to Eurofins Environmental Testing America (EETA) Denver located in Arvada, Colorado. All containers were received by EETA at temperatures within the required temperature range of 0.1 to 6.0° Celsius. All containers were received at the laboratory in good condition.

All samples were prepared and analyzed following the procedures outlined in the project-specific Uniform Federal Policy - Quality Assurance Project Plan (UFP-QAPP) and the Department of Defense (DoD) Quality Systems Manual (QSM) Version 5.4. The following table details the samples included in this SDG discussed in this report and the analytical parameters performed.

## SAMPLE IDS AND REQUESTED PARAMETERS

| Client Sample ID | Laboratory Sample ID | Matrix | Parameter(s) |
|---|---|---|---|
| TMW57102024 | 280-197680-1 | Water | A, O |
| FDUP08-102024 (Field Duplicate of TMW17102024) | 280-197680-2 | Water | A, O |
| TMW61102024 | 280-197680-3 | Water | A, O |
| TMW59102024 | 280-197680-4 | Water | A, O |
| TMW53102024 | 280-197680-5 | Water | A, O |
| FW31102024 | 280-197680-6 | Water | A, O |
| TMW49102024 | 280-197680-7 | Water | A, O |
| TMW28102024 | 280-197680-8 | Water | A, O |
| MW26102024 | 280-197680-9 | Water | A, O |
| MW36D102024 | 280-197680-10 | Water | A, O |
| TMW39S102024 | 280-197680-11 | Water | A, O |
| MW36S102024 | 280-197680-12 | Water | A, O |
| TMW17102024 | 280-197680-13 | Water | A, O |
| MW34102024 | 280-197680-14 | Water | A, O |
| MW27102024 | 280-197680-15 | Water | A, O |
| MW33102024 | 280-197680-16 | Water | A, O |
| FDUP07102024 (Field Duplicate of MW33102024) | 280-197680-17 | Water | A, O |

**Parameters:**
A=Anions
O= Orthophosphate as P

## EXTRACTION, ANALYTICAL, AND REPORTING DETAILS

| Parameter | Matrix | Prep Method | Analytical Method | Units |
|---|---|---|---|---|
| Anions | Water | -- | SW846 9056A | ug/L |
| Orthophosphate as P | Water | -- | EPA 365.1 | ug/L |

µg/L= micrograms per liter

## EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated at a Stage 2B Validation was performed following the guidelines outlined in the project-specific UFP QAPP, DoD General Data Validation Guidelines, Rev 1 (Nov 2019) and published data validation guideline modules. Information reviewed in the data packages included sample results; field and laboratory quality control results; instrument calibration; calibration verifications; case narratives; sample receipt forms, chain-of-custody (COC) forms. The

analyses and findings presented in this report are based on the reviewed information, and whether guidelines in the associated analytical method, DoD QSM and QAPP were met.

A table detailing the data qualifiers applied for the samples in this SDG as a result of the data validation process is included as Attachment A to this report. Data validation checklists for each analytical method listed in the table above are also included in this report as Attachment B. An ADR.net summary report is included in this report as Attachment C.

## ANIONS

### General

The anions portion of this SDG consisted of seventeen (17) water samples. The samples were collected on October 7, 2024, and were analyzed for anions as specified in the project-specific UFP-QAPP.

The anions analyses were performed in accordance with U.S. EPA Method SW846 9056A. All samples in this SDG were analyzed following the procedures outlined in the DoD QSM, version 5.4 and the project QAPP. All samples were analyzed within the holding time required by the method.

The laboratory noted in the case narrative that one or more samples had chromatographic interferences caused by high concentrations of sulfate that could adversely impact the identification and quantitation of target analytes. These interferences impacted nitrate in sample TMW49102024 and fluoride in sample MW36S102024. The nitrate and fluoride results were qualified "J" as estimated.

### Accuracy

Accuracy was evaluated using the percent recovery obtained from the Laboratory Control Sample (LCS), Laboratory Control Sample Duplicate (LCSD), Matrix Spike (MS) and Matrix Spike Duplicate (MSD). Sample TMW28102024 was designated for MS/MSD analysis by the laboratory.

All LCS/LCSD spike recoveries were within acceptance criteria.

All MS/MSD spike recoveries were within acceptance criteria except for the following:

| Parent Sample TMW28102024 | | | |
|---|---|---|---|
| **Analyte** | **MS %REC** | **MSD %REC** | **Criteria** |
| bromide | 110 | 113* | 91-110% |

*-outside acceptance criteria

Bromide recovered high and outside criteria in the MSD. The result in sample TMW28102024 was non-detect, as such qualification was not warranted.

### Precision

Precision was evaluated using the relative percent difference (RPD) obtained from the LCS/LCSD, MS/MSD and laboratory duplicate concentrations.

All LCS/LCSD, MS/MSD and laboratory duplicate RPDs were within acceptance criteria.

Precision was further evaluated by comparing the field duplicate results. The following samples were submitted to the lab as blind field duplicate samples: FDUP07102024 (parent sample – MW33102024), and FDUP08-102024 (parent sample – TMW17102024). All RPDs for anion results were within acceptance criteria.

**Representativeness**

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the COC procedures to those described in the DoD QSM and project QAPP;
- Comparing actual analytical procedures to those described in the DoD QSM and project-specific UFP-QAPP;
- Evaluating holding times; and
- Examining laboratory blanks for cross contamination of samples during analysis.

The samples in this SDG were analyzed following the COC and the analytical procedures described in the DoD QSM and project-specific UFP-QAPP. All samples were prepared and analyzed within the holding time required by the method. The following QC elements were also evaluated:

- All initial calibration (ICAL) criteria were met.
- The initial calibration verification (ICV) samples were prepared from a second source standard. All ICV criteria were met.
- All initial and continuing calibration blanks (ICB/CCB) criteria were met.
- All continuing calibration verification (CCV) criteria were met.

Eleven laboratory method blanks were associated with the anions analyses in this SDG. Chloride was detected in the laboratory method blank associated with analysis batch 671537. The associated samples had chloride detections greater than 5x the method blank detection, as such, qualification of data was not warranted.

**Completeness**

Completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data.

All results for anions for the samples in this SDG were considered usable. Therefore, the completeness for the anions portion of this SDG is 100%, which meets the minimum acceptance criteria of 90%.

## ORTHOPHOSPHATE AS P

### General

The orthophosphate portion of this SDG consisted of seventeen (17) water samples. The samples were collected on October 7, 2024, and were analyzed for orthophosphate as specified in the project-specific UFP-QAPP.

The orthophosphate analyses were performed in accordance with U.S. EPA Method 365.1. All samples in this SDG were analyzed following the procedures outlined in the DoD QSM, version 5.4 and the project QAPP. All samples were analyzed within the holding time required by the method.

### Accuracy

Accuracy was evaluated using the percent recovery obtained from the LCS/LCSD and MS/MSD. Samples TMW39S102024 and TMW28102024 were designated for MS/MSD analysis by the laboratory.

All LCS/LCSD and MS/MSD spike recoveries were within acceptance criteria.

### Precision

Precision was evaluated using the RPD obtained from the LCS/LCSD and MS/MSD concentrations.

All LCS/LCSD and MS/MSD RPDs were within acceptance criteria.

Precision was further evaluated by comparing the field duplicate results. The following samples were submitted to the lab as blind field duplicate samples: FDUP07102024 (parent sample – MW33102024), and FDUP08-102024 (parent sample – TMW17102024). The RPD for orthophosphate for FDUP07102024 (parent sample – MW33102024) exceeded acceptance criteria of 30%. As such, the orthophosphate results in both samples were qualified "J" as estimated.

### Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Comparing the COC procedures to those described in the DoD QSM and project QAPP;
- Comparing actual analytical procedures to those described in the DoD QSM and project-specific UFP-QAPP;
- Evaluating holding times; and
- Examining laboratory blanks for cross contamination of samples during analysis.

The samples in this SDG were analyzed following the COC and the analytical procedures described in the DoD QSM and project-specific UFP-QAPP. All samples were prepared

and analyzed within the holding time required by the method. The following QC elements were also evaluated:

- All ICAL criteria were met.
- The ICV samples were prepared from a second source standard. All ICV criteria were met.
- All ICB/CCB criteria were met.
- All CCV criteria were met.

One laboratory method blank was associated with the orthophosphate analyses in this SDG. The laboratory method blank was non-detect for orthophosphate.

**Completeness**

Completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data.

All results for orthophosphate for the samples in this SDG were considered usable. Therefore, the completeness for the orthophosphate portion of this SDG is 100%, which meets the minimum acceptance criteria of 90%.

## COMPARABILITY

All data was generated using contract-specific standard methods and reported with known data quality, type of analysis, units, etc.

## DATA USABILITY

The purpose of this data validation report is to ensure the integrity and reliability of analytical laboratory data. The data quality is evaluated based on precision, accuracy, representativeness, comparability, and completeness (PARCC) characteristics of the data. The validated data indicated that the laboratory correctly performed the analyses. Based on the data quality assessment, none of the data were qualified as rejected.

All data in this SDG are considered usable, as qualified, for the purposes of this project. All Method Quality Objectives have been met.

## SENSITIVITY

The detection limit (DL), limit of detection (LOD) and limit of quantitation (LOQ) values reported for the samples were compared to those listed in WS #15, Table 15.1 of the QAPP to ensure that sensitivity requirements were met. The DL, LOD, and LOQ values matched those listed in the QAPP before dilutions were taken into account. Several 5x, 10x, 20x and 50x dilutions were performed for anions analysis due to high concentrations and to reduce interference, as such, the reporting limits were adjusted accordingly. Even with the elevated reporting limits, all LOQs met the project quantitation limits (PQLs). Sensitivity requirements were met.

## DATA QUALIFIER CHANGES

The sample results and final data qualifiers and reason codes that were added, removed, or changed as a result of the data validation process are included in a table as Attachment A to this report.

## DATA QUALIFIER DEFINITIONS

The data qualifiers are defined in WS #36, Table 36.2 of the project QAPP as follows.

U = The analyte was not detected and was reported as less than the LOD. The LOD has been adjusted for any dilution or concentration of the sample.

J = The reported result was an estimated value with an unknown bias.

J+ = The reported result was an estimated quantity, but the result may be biased high.

J- = The reported result was an estimated quantity, but the result may be biased low.

UJ = The analyte was not detected and was reported as less than the LOD. However, the reported numerical value is approximate.

X= The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance (J-flag) or rejection (R-flag) of the data should be decided by the project team (which should include a project chemist) during the Data Usability Assessment process.

## REASON CODE DEFINITIONS

These data validation reason codes were used to document the logic behind all data validation qualifiers:

| Validation Qualifier Reason Codes | Validation Comments |
|---|---|
| BLL | Concentration in equipment blank at or above reporting limit. |
| BLM | Concentration in equipment blank less than reporting limit |
| BLN | Concentration in trip blank at or above reporting limit. |
| BLO | Concentration in trip blank less than reporting limit. |
| BLR | Concentration in field blank or decon blank at or above reporting limit. |
| BLS | Concentration in field blank or decon blank less than reporting limit. |
| BLT | Concentration in method blank less than reporting limit. |
| BLU | Concentration in method blank at or above reporting limit. |
| CO1 | Column confirmation RPD exceeds acceptance limit. |
| CR1 | Result exceeded calibration range. |
| DU1 | Field duplicate RPD exceeds acceptance limit. |
| DU2 | Laboratory duplicate RPD exceeds acceptance limit. |
| DU3 | Field Duplicate RPD not calculated but results demonstrate a high degree of variability. |
| HS | VOA vial has headspace greater than 6 millimeters. |
| LC1 | LCS and/or LCSD recovery above upper acceptance limit. |
| LC2 | LCS and/or LCSD recovery below lower acceptance limit. |
| LC7 | LCS/LCSD RPD exceeds acceptance limit. |
| MD1 | MS and/or MSD recovery above upper acceptance limit. |
| MD2 | MS and/or MSD recovery below lower acceptance limit. |
| MD5 | MS/MSD RPD exceeds acceptance limit. |
| PJ | Professional judgment used. See specific details in Data Validation Report. |
| SC1 | Analysis holding time exceeded. |
| SC3 | Extraction holding time exceeded. |
| SC6 | Temperature of sample outside acceptance range. |
| SU1 | Surrogate recovery above upper acceptance limit. |
| SU2 | Surrogate recovery below lower acceptance limit. |
| PR1 | Samples not properly preserved. |
| TR | Result is detected between the reporting limit and detection limit. |

## ACRONYMS AND ABBREVIATIONS

The following is a list of acronyms and abbreviations that were used in this data validation report.

| | |
|---|---|
| CCB | Continuing Calibration Blank |
| CCV | Continuing Calibration Verification |
| CoC | Chain of Custody |
| DL | Detection Limit |
| DoD | Department of Defense |
| ECO | Eco & Associates, Inc. |
| ETTA | Eurofins Environment Testing America |
| FWDA | Fort Wingate Depot Activity |
| ICAL | Initial Calibration |
| ICB | Initial Calibration Blank |
| ICV | Initial Calibration Verification |
| LCS | Laboratory Control Sample |
| LCSD | Laboratory Control Sample Duplicate |
| LOD | Limit of Detection |
| LOQ | Limit of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| PQL | Project Quantitation Limit |
| QC | Quality Control |
| QSM | Quality Systems Manual |
| RPD | Relative Percent Difference |
| SDG | Sample Delivery Group |
| UFP-QAPP | Uniform Federal Policy – Quality Assurance Project Plan |

# Attachment A

# Validated Data Summary

**Fort Wingate Depot Activity Northern Area**
**McKinley County, New Mexico**
**Northern Area Groundwater Sampling**
**Validated Data Summary for Water Samples Collected September and October 2024**

| SAMPLE ID: | | PROJECT QUANTITATION LIMIT GOAL (PQLG)[1] | FW31102024 | MW26102024 | MW27102024 | MW33102024 | FDUP07102024* | MW34102024 | MW36D102024 | MW36S102024 |
|---|---|---|---|---|---|---|---|---|---|---|
| DATE SAMPLED: | | | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 | 10/07/2024 |
| LAB SAMPLE ID: | | | 280-197749-17<br>280-197680-6 | 280-197749-5<br>280-197680-9 | 280-197749-4<br>280-197680-15 | 280-197749-2<br>280-197680-16 | 280-197749-1<br>280-197680-17 | 280-197749-6<br>280-197680-14 | 280-197749-7<br>280-197680-10 | 280-197749-10<br>280-197680-12 |
| | Unit | | | | | | | | | |
| **General Chemistry** | | | | | | | | | | |
| **Orthophosphate as P - EPA 365.1** | | | | | | | | | | |
| Orthophosphate as P | µg/L | 20,000 | 50 U | **62** | 50 U | **120** J | **76** J | **48** J | **910** | 50 U |
| **Anions - SW9056A** | | | | | | | | | | |
| Bromide | µg/L | na | 500 U | **1,300** | **790** | **1,400** | **1,400** | **1,900** | **1,000** | 500 U |
| Chloride | µg/L | 250,000 | **8,700** | **350,000** | **120,000** | **240,000** | **240,000** | **430,000** | **100,000** | **540,000** |
| Fluoride | µg/L | 1,600 | **3,000** | **540** J | **510** J | **1,100** | **1,100** | **570** J | **780** J | **1,000** J |
| Nitrate as N | µg/L | 10,000 | 500 U | **1,700** | **25,000** | 500 U | 500 U | **9,100** | **1,100** | **160** J |
| Nitrite as N | µg/L | 1,000 | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U | 500 U |
| Sulfate | µg/L | 250,000 | **670,000** | **1,200,000** | **1,000,000** | **750,000** | **750,000** | **2,100,000** | **34,000** | **4,200,000** |

**QA NOTES AND DATA QUALIFIERS:**

* - Field duplicate of sample on left.
(NO CODE) - Confirmed identification.
U - Analyte was analyzed for but not detected above the reported limit of quantitation (LOQ).
UJ - Analyte not detected, reported LOQ may be inaccurate or imprecise.
J - Analyte detected, estimated concentration.
J- - Analyte detected, estimated concentration with a low bias.
J+ - Analyte detected, estimated concentration with a high bias.
X - The presence or absence of the analyte cannot be substantiated due to deficiencies in meeting QC criteria.
**Detections are bolded.**

**Detections above the PQLG are highlighted.**

**NOTES:**

[1] The PQLG is the lower of the New Mexico Water Quality Control Commission standard (NM WQCC) and the EPA MCL. If the analyte does not have an NM WQCC or MCL but has an EPA Tap Water RSL, the lower value between the adjusted carcinogenic RSL (target excess cancer risk level of 1 x 10-5) and the non-carcinogenic RSL (with a target hazard index of 1.0) was selected.

µg/L - micrograms per liter

na - Limit not available

-- Analyte was not tested.

**Fort Wingate Depot Activity Northern Area**
**McKinley County, New Mexico**
**Northern Area Groundwater Sampling**
**Validated Data Summary for Water Samples Collected September and October 2024**

| SAMPLE ID: | | PROJECT QUANTITATION LIMIT GOAL (PQLG)[1] | TMW17102024 | | FDUP08-102024* | | TMW28102024 | | TMW39S102024 | | TMW49102024 | | TMW53102024 | | TMW57102024 | | TMW59102024 | | TMW61102024 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE SAMPLED: | | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | | 10/07/2024 | |
| LAB SAMPLE ID: | | | 280-197749-9<br>280-197680-13 | | 280-197749-12<br>280-197680-2 | | 280-197749-3<br>280-197680-8 | | 280-197749-8<br>280-197680-11 | | 280-197749-16<br>280-197680-7 | | 280-197749-15<br>280-197680-5 | | 280-197749-13<br>280-197680-1 | | 280-197749-14<br>280-197680-4 | | 280-197749-11<br>280-197680-3 | |
| | Unit | | | | | | | | | | | | | | | | | | | |
| **General Chemistry** | | | | | | | | | | | | | | | | | | | | |
| **Orthophosphate as P - EPA 365.1** | | | | | | | | | | | | | | | | | | | | |
| Orthophosphate as P | µg/L | 20,000 | 50 | U | 50 | U | **430** | | **21** | **J** | **19** | **J** | **57** | | **34** | **J** | **110** | | **57** | |
| **Anions - SW9056A** | | | | | | | | | | | | | | | | | | | | |
| Bromide | µg/L | na | **400** | **J** | **400** | **J** | 500 | U | **2,100** | | **1,000** | | **230** | **J** | **690** | | **640** | | **1,500** | |
| Chloride | µg/L | 250,000 | **140,000** | | **140,000** | | **97,000** | | **230,000** | | **190,000** | | **87,000** | | **66,000** | | **92,000** | | **580,000** | |
| Fluoride | µg/L | 1,600 | **850** | **J** | **850** | **J** | **640** | **J** | **490** | **J** | **450** | **J** | **2,800** | | **2,000** | | **890** | **J** | **770** | **J** |
| Nitrate as N | µg/L | 10,000 | 500 | U | 500 | U | 500 | U | **8,900** | | **7,900** | **J** | 500 | U | **750** | | **42,000** | | **21,000** | |
| Nitrite as N | µg/L | 1,000 | 500 | U | 500 | U | 500 | U | 500 | U | 500 | U | 500 | U | 500 | U | 500 | U | 500 | U |
| Sulfate | µg/L | 250,000 | **520,000** | | **500,000** | | **520,000** | | **1,200,000** | | **780,000** | | **260,000** | | **230,000** | | **830,000** | | 5,000 | U |

**QA NOTES AND DATA QUALIFIERS:**

* - Field duplicate of sample on left.
(NO CODE) - Confirmed identification.
U - Analyte was analyzed for but not detected above the reported limit of quantitation (LOQ).
UJ - Analyte not detected, reported LOQ may be inaccurate or imprecise.
J - Analyte detected, estimated concentration.
J- - Analyte detected, estimated concentration with a low bias.
J+ - Analyte detected, estimated concentration with a high bias.
X - The presence or absence of the analyte cannot be substantiated due to deficiencies in meeting QC criteria.
**Detections are bolded.**

**Detections above the PQLG are highlighted.**

**NOTES:**

[1] The PQLG is the lower of the New Mexico Water Quality Control Commission standard (NM WQCC) and the EPA MCL. If the analyte does not have an NM WQCC or MCL but has an EPA Tap Water RSL, the lower value between the adjusted carcinogenic RSL (target excess cancer risk level of 1 x 10-5) and the non-carcinogenic RSL (with a target hazard index of 1.0) was selected.

µg/L - micrograms per liter
na - Limit not available
-- Analyte was not tested.

# Attachment B

# Checklists

## VALIDATION CHECKLIST

**SDG#:** 280-197680 **Date**: 2/14/25

**Laboratory:** EETA **Reviewer:** Kortney Curry

**Method:** 9056A & 365.1

| | Validation Area | Acceptable? Y/N/NA | Comments |
|---|---|---|---|
| I. | Case narrative | Y | |
| II. | Sample receipt/Technical holding times | Y | |
| III. | Instrument performance check/Tune | NA | |
| IV. | Initial calibration/ICV | Y | |
| V. | Continuing Calibration | Y | |
| VI. | Laboratory Blanks- MB, ICB/CCB | Y | |
| VI. | Field blanks | NA | |
| VII. | Interference check standard | NA | |
| VIII. | Matrix spike/Matrix spike duplicate | Y | |
| IX. | Laboratory control samples | Y | |
| X. | Field duplicates/Field triplicates | N | See DVR |
| XI. | External standards | NA | |
| XII. | Dilution test | NA | |
| XIII. | Post digestion spike | NA | |
| XIV. | Compound quantitation LOQ/LOD/DL | Y | |
| XV | Target compound identification | Y | See DVR |

# Attachment C

# ADR Summary Report

# Data Review Sample Summary Report by Analysis Method

**Reviewed By: KAC (12/19/2024)** **Approved By:** **Laboratory: TAL DEN**

| Client Sample ID | Lab Sample ID | Matrix | Sample Type | Preparation Method | Collection Date | Validation Code |
|---|---|---|---|---|---|---|
| **Lab Reporting Batch: 280-197680-1** | | | | | | |
| **Method: 365.1** | | | | | | |
| TMW61102024 | 280-197680-3 | Water | Field_Sample | Gen Prep | 10/7/2024 12:00:00 PM | S2AVE |
| TMW28102024MSD | 280-197680-8MSD | Water | Matrix_Spike_Duplicate | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| TMW57102024 | 280-197680-1 | Water | Field_Sample | Gen Prep | 10/7/2024 10:40:00 AM | S2AVE |
| MW36S102024 | 280-197680-12 | Water | Field_Sample | Gen Prep | 10/7/2024 8:10:00 AM | S2AVE |
| MW26102024 | 280-197680-9 | Water | Field_Sample | Gen Prep | 10/7/2024 9:10:00 AM | S2AVE |
| TMW39S102024MSD | 280-197680-11MSD | Water | Matrix_Spike_Duplicate | Gen Prep | 10/7/2024 10:00:00 AM | S2AVE |
| MW36D102024 | 280-197680-10 | Water | Field_Sample | Gen Prep | 10/7/2024 8:45:00 AM | S2AVE |
| FDUP08-102024 | 280-197680-2 | Water | Field_Duplicate | Gen Prep | 10/7/2024 11:35:00 AM | S2AVE |
| TMW28102024MS | 280-197680-8MS | Water | Matrix_Spike | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| TMW49102024 | 280-197680-7 | Water | Field_Sample | Gen Prep | 10/7/2024 2:00:00 PM | S2AVE |
| TMW39S102024 | 280-197680-11 | Water | Field_Sample | Gen Prep | 10/7/2024 10:00:00 AM | S2AVE |
| TMW59102024 | 280-197680-4 | Water | Field_Sample | Gen Prep | 10/7/2024 10:25:00 AM | S2AVE |
| TMW17102024 | 280-197680-13 | Water | Field_Sample | Gen Prep | 10/7/2024 11:25:00 AM | S2AVE |
| MW34102024 | 280-197680-14 | Water | Field_Sample | Gen Prep | 10/7/2024 8:40:00 AM | S2AVE |
| MW33102024 | 280-197680-16 | Water | Field_Sample | Gen Prep | 10/7/2024 7:30:00 AM | S2AVE |
| TMW39S102024MS | 280-197680-11MS | Water | Matrix_Spike | Gen Prep | 10/7/2024 10:00:00 AM | S2AVE |
| MW27102024 | 280-197680-15 | Water | Field_Sample | Gen Prep | 10/7/2024 7:20:00 AM | S2AVE |
| FW31102024 | 280-197680-6 | Water | Field_Sample | Gen Prep | 10/7/2024 12:15:00 PM | S2AVE |
| TMW53102024 | 280-197680-5 | Water | Field_Sample | Gen Prep | 10/7/2024 9:40:00 AM | S2AVE |
| FDUP07102024 | 280-197680-17 | Water | Field_Duplicate | Gen Prep | 10/7/2024 7:40:00 AM | S2AVE |
| TMW28102024 | 280-197680-8 | Water | Field_Sample | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| **Method: 9056A** | | | | | | |
| TMW49102024 | 280-197680-7 | Water | Field_Sample | Gen Prep | 10/7/2024 2:00:00 PM | S2AVE |

# Data Review Sample Summary Report by Analysis Method

**Reviewed By: KAC (12/19/2024)** **Approved By:** **Laboratory: TAL DEN**

| Client Sample ID | Lab Sample ID | Matrix | Sample Type | Preparation Method | Collection Date | Validation Code |
|---|---|---|---|---|---|---|
| **Method: 9056A** | | | | | | |
| TMW59102024 | 280-197680-4 | Water | Field_Sample | Gen Prep | 10/7/2024 10:25:00 AM | S2AVE |
| MW34102024 | 280-197680-14 | Water | Field_Sample | Gen Prep | 10/7/2024 8:40:00 AM | S2AVE |
| FDUP08-102024 | 280-197680-2 | Water | Field_Duplicate | Gen Prep | 10/7/2024 11:35:00 AM | S2AVE |
| TMW61102024 | 280-197680-3 | Water | Field_Sample | Gen Prep | 10/7/2024 12:00:00 PM | S2AVE |
| TMW28102024 | 280-197680-8 | Water | Field_Sample | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| MW27102024 | 280-197680-15 | Water | Field_Sample | Gen Prep | 10/7/2024 7:20:00 AM | S2AVE |
| TMW53102024 | 280-197680-5 | Water | Field_Sample | Gen Prep | 10/7/2024 9:40:00 AM | S2AVE |
| TMW28102024MSD | 280-197680-8MSD | Water | Matrix_Spike_Duplicate | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| TMW28102024MS | 280-197680-8MS | Water | Matrix_Spike | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| MW26102024 | 280-197680-9 | Water | Field_Sample | Gen Prep | 10/7/2024 9:10:00 AM | S2AVE |
| MW36S102024 | 280-197680-12 | Water | Field_Sample | Gen Prep | 10/7/2024 8:10:00 AM | S2AVE |
| TMW28102024DUP | 280-197680-8DUP | Water | Duplicate | Gen Prep | 10/7/2024 8:20:00 AM | S2AVE |
| TMW39S102024 | 280-197680-11 | Water | Field_Sample | Gen Prep | 10/7/2024 10:00:00 AM | S2AVE |
| FW31102024 | 280-197680-6 | Water | Field_Sample | Gen Prep | 10/7/2024 12:15:00 PM | S2AVE |
| TMW57102024 | 280-197680-1 | Water | Field_Sample | Gen Prep | 10/7/2024 10:40:00 AM | S2AVE |
| TMW17102024 | 280-197680-13 | Water | Field_Sample | Gen Prep | 10/7/2024 11:25:00 AM | S2AVE |
| MW36D102024 | 280-197680-10 | Water | Field_Sample | Gen Prep | 10/7/2024 8:45:00 AM | S2AVE |
| FDUP07102024 | 280-197680-17 | Water | Field_Duplicate | Gen Prep | 10/7/2024 7:40:00 AM | S2AVE |
| MW33102024 | 280-197680-16 | Water | Field_Sample | Gen Prep | 10/7/2024 7:30:00 AM | S2AVE |

# Data Review Sample Summary Report by Analysis Method

**Reviewed By: KAC (12/19/2024)** **Approved By:** **Laboratory: TAL DEN**

| Client Sample ID | Lab Sample ID | Matrix | Sample Type | Preparation Method | Collection Date | Validation Code |
|---|---|---|---|---|---|---|

## Validation Label Legend

| Label Code | Label Decription | EPA Level |
|---|---|---|
| S1VE | Stage_1_Validation_Electronic | N/A |
| S1VM | Stage_1_Validation_Manual | N/A |
| S1VEM | Stage_1_Validation_Electronic_and_Manual | N/A |
| S2AVE | Stage_2A_Validation_Electronic | Level 3 w/o calibration |
| S2AVM | Stage_2A_Validation_Manual | Level 3 w/o calibration |
| S2AVEM | Stage_2A_Validation_Electronic_and_Manual | Level 3 w/o calibration |
| S2BVE | Stage_2B_Validation_Electronic | Level 3 with calibration |
| S2BVM | Stage_2B_Validation_Manual | Level 3 with calibration |
| S2BVEM | Stage_2B_Validation_Electronic_and_Manual | Level 3 with calibration |
| S3VE | Stage_3_Validation_Electronic | Level 4 |
| S3VM | Stage_3_Validation_Manual | Level 4 |
| S3VEM | Stage_3_Validation_Electronic_and_Manual | Level 4 |
| S4VE | Stage_4_Validation_Electronic | Level 4 |
| S4VM | Stage_4_Validation_Manual | Level 4 |
| S4VEM | Stage_4_Validation_Electronic_and_Manual | Level 4 |
| NV | Not_Validated | N/A |

# Data Review Summary

**Lab Reporting Batch ID: 280-197680-1**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate**

**Laboratory: TAL DEN**

**eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ**

| *Validation Area* | *Note* |
|---|---|
| Technical Holding Times | A |
| Temperature | A |
| Initial Calibration | N |
| Continuing Calibration/Initial Calibration Verification | N |
| Method Blanks | SR |
| Surrogate/Tracer Spikes | N |
| Matrix Spike/Matrix Spike Duplicates | SR |
| Laboratory Duplicates | A |
| Laboratory Replicates | N |
| Laboratory Control Samples | A |
| Compound Quantitation | SR |
| Field Duplicates | SR |
| Field Triplicates | N |
| Field Blanks | N |

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

# *Temperature Outliers*

**Lab Reporting Batch ID: 280-197680-1**

**Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate**

**eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ**

**No Data Review Qualifiers Applie**

# QC Outlier Report: HoldingTimes

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

**No Data Review Qualifiers Applied.**

# Method Blank Outlier Report

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

***Method:*** **9056A**

| Method Blank Sample ID | Analysis Date | Analyte | Result | Associated Samples |
|---|---|---|---|---|
| MB 280-671537/62 | 10/19/2024 12:25:00 AM | CHLORIDE | 1030 ug/L | FDUP07102024<br>FDUP08-102024<br>FW31102024<br>MW26102024<br>MW27102024<br>MW33102024<br>MW34102024<br>MW36D102024<br>MW36S102024<br>TMW17102024<br>TMW28102024<br>TMW39S102024<br>TMW53102024<br>TMW57102024<br>TMW59102024<br>TMW61102024 |

# *Lab Control Spike/Lab Control Spike Duplicate Outlier Report*

**Lab Reporting Batch ID: 280-197680-1**

**Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate**

**eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ**

**No Data Review Qualifiers Applied.**

# Matrix Spike/Matrix Spike Duplicate Outlier Report

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ**

***Method:*** **9056A**

| QC Sample ID (Associated Samples) | Compound | MS %R | MSD %R | %R Limits | RPD (Limits) | Affected Compounds | Flag |
|---|---|---|---|---|---|---|---|
| TMW28102024MSD (TMW28102024) | BROMIDE | - | 113 | 91.00-110.00 | - | BROMIDE | J+ (all detects) |

# *Lab Duplicate Outlier Report*

**Lab Reporting Batch ID: 280-197680-1**

**Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate**

**eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ**

**No Data Review Qualifiers Applied.**

# Field Duplicate Outlier Report

**Lab Reporting Batch ID: 280-197680-1**

**Laboratory: TAL DEN**

**EDD Filename:**
**280-197680-1_52_2a_ParsonsFtWingate_rev_rev**

**eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ**

***Method: 365.1***
***Matrix: Water***

| *Analyte* | *Concentration (ug/L)* | | *Sample RPD* | *eQAPP RPD* | *Flag* |
|---|---|---|---|---|---|
| | **MW33102024** | **FDUP07102024** | | | |
| Orthophosphate as P | 120 | 76 | 45 | 30.00 | J (all detects)<br>U (all non-detects) |

**Project Name and Number: Fort Wingate Depot Activity Northern Area - USACE Project: USACE Project:**

# Reporting Limit Outliers

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename: 280-197680-1_52_2a_ParsonsFtWingate** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

## Method: 365.1

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| MW34102024 | Orthophosphate as P | J | 48 | 50 | LOQ | ug/L | J (all detects) |
| TMW39S102024 | Orthophosphate as P | J | 21 | 50 | LOQ | ug/L | J (all detects) |
| TMW49102024 | Orthophosphate as P | J | 19 | 50 | LOQ | ug/L | J (all detects) |
| TMW57102024 | Orthophosphate as P | J | 34 | 50 | LOQ | ug/L | J (all detects) |

## Method: 9056A

| SampleID | Analyte | Lab Qual | Result | Reporting Limit | RL Type | Units | Flag |
|---|---|---|---|---|---|---|---|
| FDUP08-102024 | BROMIDE<br>FLUORIDE | J<br>J | 400<br>850 | 500<br>1000 | LOQ<br>LOQ | ug/L<br>ug/L | J (all detects) |
| MW26102024 | FLUORIDE | J | 540 | 1000 | LOQ | ug/L | J (all detects) |
| MW27102024 | FLUORIDE | J | 510 | 1000 | LOQ | ug/L | J (all detects) |
| MW34102024 | FLUORIDE | J | 570 | 1000 | LOQ | ug/L | J (all detects) |
| MW36D102024 | FLUORIDE | J | 780 | 1000 | LOQ | ug/L | J (all detects) |
| MW36S102024 | Nitrate as N | J | 160 | 500 | LOQ | ug/L | J (all detects) |
| TMW17102024 | BROMIDE<br>FLUORIDE | J<br>J | 400<br>850 | 500<br>1000 | LOQ<br>LOQ | ug/L<br>ug/L | J (all detects) |
| TMW28102024 | FLUORIDE | J | 640 | 1000 | LOQ | ug/L | J (all detects) |
| TMW39S102024 | FLUORIDE | J | 490 | 1000 | LOQ | ug/L | J (all detects) |
| TMW49102024 | FLUORIDE | J | 450 | 1000 | LOQ | ug/L | J (all detects) |
| TMW53102024 | BROMIDE | J | 230 | 500 | LOQ | ug/L | J (all detects) |
| TMW59102024 | FLUORIDE | J | 890 | 1000 | LOQ | ug/L | J (all detects) |
| TMW61102024 | FLUORIDE | J | 770 | 1000 | LOQ | ug/L | J (all detects) |

# Field QC Assignments and Associated Samples

**EDD File Name:** 280-197680-1
**eQapp Name:** Fort_Wingate_rev2_hexchrom_AQ HT_24hr

| | Associated Samples | Sample Collection Date |
|---|---|---|
| **Field QC Sample:** FDUP07102024<br>**QC Type:** Field_Duplicate | | |
| | TMW57102024 | 10/7/2024 10:40:00 AM |
| **Field QC Sample:** FDUP08-102024<br>**QC Type:** Field_Duplicate | | |
| | MW33102024 | 10/7/2024 7:30:00 AM |

# Data Qualifier Summary

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename:**
**280-197680-1_52_2a_ParsonsFtWingate_rev** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

***Method Category:*** **GENCHEM**

***Sample ID:*** **FDUP07102024** ***Collected:*** **10/7/2024 7:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| Orthophosphate as P | 76 | | 40 | LOD | 50 | LOQ | ug/L | J | DU1 |

***Sample ID:*** **MW33102024** ***Collected:*** **10/7/2024 7:30:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| Orthophosphate as P | 120 | | 40 | LOD | 50 | LOQ | ug/L | J | DU1 |

***Sample ID:*** **MW34102024** ***Collected:*** **10/7/2024 8:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| Orthophosphate as P | 48 | J | 40 | LOD | 50 | LOQ | ug/L | J | TR |

***Sample ID:*** **TMW39S102024** ***Collected:*** **10/7/2024 10:00:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| Orthophosphate as P | 21 | J | 40 | LOD | 50 | LOQ | ug/L | J | TR |

***Sample ID:*** **TMW49102024** ***Collected:*** **10/7/2024 2:00:00 PM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| Orthophosphate as P | 19 | J | 40 | LOD | 50 | LOQ | ug/L | J | TR |

***Sample ID:*** **TMW57102024** ***Collected:*** **10/7/2024 10:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| Orthophosphate as P | 34 | J | 40 | LOD | 50 | LOQ | ug/L | J | TR |

* denotes a non-reportable result

**Project Name and Number: Fort Wingate Depot Activity Northern Area - USACE Project: NM6213820974**

# Data Qualifier Summary

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename:**
**280-197680-1_52_2a_ParsonsFtWingate_rev** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

***Method Category:*** **GENCHEM**

***Sample ID:*** **FDUP08-102024** ***Collected:*** **10/7/2024 11:35:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| BROMIDE | 400 | J | 500 | LOD | 500 | LOQ | ug/L | J | TR |
| FLUORIDE | 850 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

***Sample ID:*** **MW26102024** ***Collected:*** **10/7/2024 9:10:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 540 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

***Sample ID:*** **MW27102024** ***Collected:*** **10/7/2024 7:20:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 510 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

***Sample ID:*** **MW34102024** ***Collected:*** **10/7/2024 8:40:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 570 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

***Sample ID:*** **MW36D102024** ***Collected:*** **10/7/2024 8:45:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 780 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

***Sample ID:*** **MW36S102024** ***Collected:*** **10/7/2024 8:10:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 1000 | | 500 | LOD | 1000 | LOQ | ug/L | J | PJ |
| Nitrate as N | 160 | J | 200 | LOD | 500 | LOQ | ug/L | J | TR |

***Sample ID:*** **TMW17102024** ***Collected:*** **10/7/2024 11:25:00 AM** ***Analysis Type:*** **Initial/TOT** ***Dilution:*** **1**

| *Analyte* | *Lab Result* | *Lab Qual* | *DL* | *DL Type* | *RL* | *RL Type* | *Units* | *Data Review Qual* | *Reason Code* |
|---|---|---|---|---|---|---|---|---|---|
| BROMIDE | 400 | J | 500 | LOD | 500 | LOQ | ug/L | J | TR |

* denotes a non-reportable result

**Project Name and Number: Fort Wingate Depot Activity Northern Area - USACE Project: NM6213820974**

# Data Qualifier Summary

**Lab Reporting Batch ID: 280-197680-1** **Laboratory: TAL DEN**

**EDD Filename:**
**280-197680-1_52_2a_ParsonsFtWingate_rev** **eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

**Method Category: GENCHEM**

**Sample ID:** TMW17102024 **Collected:** 10/7/2024 11:25:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 850 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

**Sample ID:** TMW28102024 **Collected:** 10/7/2024 8:20:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 640 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

**Sample ID:** TMW39S102024 **Collected:** 10/7/2024 10:00:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 490 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

**Sample ID:** TMW49102024 **Collected:** 10/7/2024 2:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 450 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |
| Nitrate as N | 7900 | M | 200 | LOD | 500 | LOQ | ug/L | J | PJ |

**Sample ID:** TMW53102024 **Collected:** 10/7/2024 9:40:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| BROMIDE | 230 | J | 500 | LOD | 500 | LOQ | ug/L | J | TR |

**Sample ID:** TMW59102024 **Collected:** 10/7/2024 10:25:00 AM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 890 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

**Sample ID:** TMW61102024 **Collected:** 10/7/2024 12:00:00 PM **Analysis Type:** Initial/TOT **Dilution:** 1

| Analyte | Lab Result | Lab Qual | DL | DL Type | RL | RL Type | Units | Data Review Qual | Reason Code |
|---|---|---|---|---|---|---|---|---|---|
| FLUORIDE | 770 | J | 500 | LOD | 1000 | LOQ | ug/L | J | TR |

* denotes a non-reportable result

**Project Name and Number: Fort Wingate Depot Activity Northern Area - USACE Project: NM6213820974**

# Data Qualifier Summary

**Lab Reporting Batch ID: 280-197680-1**

**Laboratory: TAL DEN**

**EDD Filename:**
**280-197680-1_52_2a_ParsonsFtWingate_rev**

**eQAPP Name: Fort_Wingate_rev2_hexchrom_AQ HT_24hr**

## Reason Code Legend

| *Reason Code* | *Description* |
|---|---|
| BLT/BLU | Method Blank Contamination |
| DU1 | Field Duplicate Precision |
| MD1 | Matrix Spike Upper Estimation |
| PJ | Professional Judgment |
| TR | Reporting Limit Trace Value |

* denotes a non-reportable result