

### DATA PACKAGE GENERAL CHEMISTRY

**PROJECT NAME: R36720** 

TETRA TECH, EMI

240 Continental Drive, Suite 200

Newark, DE - 19713

Phone No: 302-738-7551

**ORDER ID: P4649** 

**ATTENTION: Ava Heiss** 





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13) Shipping Document

13.1) Chain Of Custody

13.2) Lab Certificate





#### **Cover Page**

**Order ID:** P4649

**Project ID:** R36720

**Client:** Tetra Tech, EMI

#### **Lab Sample Number**

#### **Client Sample Number**

P4649-01	MC0JZ7
P4649-02	MC0JZ9
P4649-03	MC0K01
P4649-04	MC0K04
P4649-05	MC0K06
P4649-06	MC0K08
P4649-07	MC0K10
P4649-08	MC0K12
P4649-09	MC0K14
P4649-10	MC0K16
P4649-11	MC0K18
P4649-12	MC0K20
P4649-13	MC0K22

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :

**APPROVED** 

By Nimisha Pandya, QA/QC Supervisor at 3:39 pm, Nov 08, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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#### CASE NARRATIVE

Tetra Tech, EMI

**Project Name: R36720** 

Project # N/A

**Chemtech Project # P4649** 

**Test Name: TSS** 

#### A. Number of Samples and Date of Receipt:

13 Water samples were received on 10/31/2024.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: TSS. This data package contains results for TSS.

#### C. Analytical Techniques:

The analysis of TSS was based on method SM2540 D.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

#### E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

N. N. Pandya	
	N. N. Pandya

**APPROVED** 

By Nimisha Pandya, QA/QC Supervisor at 3:39 pm, Nov 08, 2024

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#### DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

1 0	
J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
Е	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers  "P" for ICP instrument  "PM" for ICP when Microwave Digestion is used  "CV" for Manual Cold Vapor AA  "AV" for automated Cold Vapor AA  "CA" for MIDI-Distillation Spectrophotometric  "AS" for Semi – Automated Spectrophotometric  "C" for Manual Spectrophotometric  "T" for Titrimetric  "NR" for analyte not required to be analyzed  Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements

QA Control # A3040961

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Sample Analysis Out Of Hold Time

#### ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

#### GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P4649 MATRIX: Water METHOD: SM2540 D NA NO YES 1. Blank Contamination - If yes, list compounds and concentrations in each blank: 2. Matrix Spike Duplicate Recoveries Met Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples. 3. Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. 4. Digestion Holding Time Met If not met, list number of days exceeded for each sample: ADDITIONAL COMMENTS: 5. M. Jodhemi
QA REVIEW

**REVIEWED** 

By Sohil Jodhani, QA/QC Director at 9:15 am, Nov 08, 2024

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#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: P4649

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<del>√</del> <del>√</del> <del>√</del>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u>√</u> <u>√</u> <u>√</u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 11/06/2024

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#### LAB CHRONICLE

OrderID: P4649 OrderDate: 10/31/2024 11:09:00 AM

Client:Tetra Tech, EMIProject:R36720Contact:Ava HeissLocation:K61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4649-01	МС0ЈZ7	WATER			10/29/24 12:20			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-02	MC0JZ9	WATER			10/29/24 12:30			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-03	MC0K01	WATER			10/29/24 12:45			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-04	МСОКО4	WATER			10/29/24 12:40			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-05	МСОКО6	WATER			10/29/24 12:05			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-06	мсоков	WATER			10/29/24 11:20			10/31/24
			TSS	SM2540 D			11/04/24 09:30	
P4649-07	MC0K10	WATER			10/29/24 10:20			10/31/24
			TSS	SM2540 D			11/04/24 09:30	

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			LAB CHRO	NICLE		
P4649-08	MC0K12	WATER		10/29/24 11:05		10/31/24
			TSS	SM2540 D	11/04/24 09:30	
P4649-09	MC0K14	WATER		10/29/24 11:50		10/31/24
			TSS	SM2540 D	11/04/24 09:30	
P4649-10	MC0K16	WATER		10/29/24 10:40		10/31/24
			TSS	SM2540 D	11/04/24 09:30	
P4649-11	MC0K18	WATER		10/29/24 12:55		10/31/24
			TSS	SM2540 D	11/04/24 09:30	
P4649-12	MC0K20	WATER		10/29/24 11:35		10/31/24
			TSS	SM2540 D	11/04/24 09:30	
P4649-13	MC0K22	WATER		10/29/24 09:45		10/31/24
			TSS	SM2540 D	11/04/24 09:30	

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# SAMPLE DATA



Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 12:20 Project: R36720 Date Received: 10/31/24 Client Sample ID: SDG No.: P4649 MC0JZ7 Lab Sample ID: P4649-01 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	263	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 12:30 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0JZ9 SDG No.: P4649 Lab Sample ID: P4649-02 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	<b>Prep Date</b>	Date Ana.	Ana Met.
TSS	3.00	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 12:45 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K01 SDG No.: P4649 Lab Sample ID: P4649-03 Matrix: WATER

% Solid: 0	
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Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.60	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 12:40 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K04 SDG No.: P4649 P4649-04 Lab Sample ID: Matrix: WATER

% Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00 U	1 1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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% Solid:

0

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 12:05 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K06 SDG No.: P4649 Lab Sample ID: P4649-05 Matrix: WATER

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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% Solid:

0

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 11:20 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K08 SDG No.: P4649 Lab Sample ID: P4649-06 Matrix: WATER

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 10:20 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K10 SDG No.: P4649 Lab Sample ID: P4649-07 Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.10	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 11:05 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K12 SDG No.: P4649 P4649-08 Lab Sample ID: Matrix: WATER % Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	1.50	J	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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**Parameter** 

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 11:50 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K14 SDG No.: P4649 Lab Sample ID: P4649-09 Matrix: WATER

DF MDL

Conc.

Qua.

Units	Prep Date	Date Ana.	Ana Met.	

% Solid:

TSS 1.00 U 1 1.00 4.00 mg/L 11/04/24 09:30 SM 2540 D-15

LOQ / CRQL

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 10:40 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K16 SDG No.: P4649 Lab Sample ID: P4649-10 Matrix: WATER

ameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
S	1.00	U	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

% Solid:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 12:55

Project: R36720 Date Received: 10/31/24

Client Sample ID: MC0K18 SDG No.: P4649

Lab Sample ID: P4649-11 Matrix: WATER

% Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	12.1	1	1.00	4.00	mg/L		11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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**Parameter** 

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 11:35 Project: R36720 Date Received: 10/31/24 Client Sample ID: SDG No.: P4649 MC0K20 Lab Sample ID: P4649-12 Matrix: WATER

DF MDL

Conc.

Qua.

Units	Prep Date	Date Ana.	Ana Met.	

% Solid:

TSS 1.00 U 1 1.00 4.00 mg/L 11/04/24 09:30 SM 2540 D-15

LOQ / CRQL

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Tetra Tech, EMI Date Collected: 10/29/24 09:45 Project: R36720 Date Received: 10/31/24 Client Sample ID: MC0K22 SDG No.: P4649 Lab Sample ID: P4649-13 Matrix: WATER % Solid: 0

Parameter	Conc. Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TSS	5.80	1	1.00	4.00	mg/L	_	11/04/24 09:30	SM 2540 D-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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# QC RESULT SUMMARY



#### **Preparation Blank Summary**

Client: Tetra Tech, EMI SDG No.: P4649

Project: R36720

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	LB133266BL mg/L	< 2.0000	2.0000	U	1	4	11/04/2024

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#### **Duplicate Sample Summary**

Client: Tetra Tech, EMI SDG No.: P4649

Project: R36720 Sample ID: P4638-02

Client ID: COMPDUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
TSS	mg/L	+/-5	734		740		1	0.81		11/04/2024	

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#### **Laboratory Control Sample Summary**

Client: Tetra Tech, EMI SDG No.: P4649

Analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133266BS								
TSS		mg/L	550	538		98	1	90-110	11/04/2024

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## RAW DATA



#### TOTAL SUSPENDED SOLIDS - SM2540D

SUPERVISOR: Iwona

**ANALYST:** Niha

**Date:** 11/01/2024

Run Number: LB133266

BalanceID: WC	2024 15:00	11/	°C	104	OUT:	TEMP1	14:00	11/01/2024	°C	103	1 IN:	TEMP1
OvenID: WC	2024 16:30	11/	°C	104	OUT:	TEMP2	15:30	11/01/2024	°C	103	2 IN:	TEMP2
FilterID: 174	2024 11:00	11/	°C	103	OUT:	TEMP3	09:30	11/04/2024	°C	104	3 IN:	TEMP3
ThermometerID: WET	2024 13:00	11/	°c	103	OUT:	TEMP4	11:30	11/04/2024	°C	104	4 IN:	TEMP4

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	2nd Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
1	LB133266BL	LB133266BL	1.4012	1.4012	100	1.4012	1.4012	1.4012	0.0000	0
2	LB133266BS	LB133266BS	1.4132	1.4132	100	1.4670	1.4670	1.4670	0.0538	538
3	P4638-02	COMP	1.3988	1.3988	50	1.4355	1.4355	1.4355	0.0367	734
4	P4638-02DUP	COMPDUP	1.4021	1.4021	50	1.4391	1.4391	1.4391	0.0370	740
5	P4649-01	MC0JZ7	1.3994	1.3994	1000	1.6624	1.6624	1.6624	0.2630	263
6	P4649-02	MC0JZ9	1.3908	1.3908	1000	1.3938	1.3938	1.3938	0.0030	3
7	P4649-03	MC0K01	1.4168	1.4168	1000	1.4184	1.4184	1.4184	0.0016	1.6
8	P4649-04	MC0K04	1.4040	1.4040	1000	1.4046	1.4046	1.4046	0.0006	0.6
9	P4649-05	MC0K06	1.4134	1.4134	1000	1.4138	1.4138	1.4138	0.0004	0.4
10	P4649-06	MC0K08	1.4151	1.4151	1000	1.4155	1.4155	1.4155	0.0004	0.4
11	P4649-07	MC0K10	1.4021	1.4021	1000	1.4032	1.4032	1.4032	0.0011	1.1
12	P4649-08	MC0K12	1.3961	1.3961	1000	1.3976	1.3976	1.3976	0.0015	1.5
13	P4649-09	MC0K14	1.4068	1.4068	1000	1.4074	1.4074	1.4074	0.0006	0.6
14	P4649-10	MC0K16	1.4059	1.4059	1000	1.4065	1.4065	1.4065	0.0006	0.6
15	P4649-11	MC0K18	1.3990	1.3990	1000	1.4111	1.4111	1.4111	0.0121	12.1

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TEMP4 IN:

#### TOTAL SUSPENDED SOLIDS - SM2540D

**SUPERVISOR:** Iwona

**ANALYST:** Niha

Date: 11/01/2024

Run Number: LB133266

ThermometerID: WET OVEN#1

TEMP1 IN: 103 °C 11/01/2024 14:00 TEMP1 OUT: 104 °C 11/01/2024 15:00 BalanceID: WC SC-6 103 °C 11/01/2024 15:30 TEMP2 OUT: 104 °C 11/01/2024 16:30 TEMP2 IN: OvenID: WC OVEN-1 103 °c 11/04/2024 11:00 104 °C 11/04/2024 09:30 TEMP3 OUT: TEMP3 IN: **FilterID:** 17416528

103 °c 11/04/2024 13:00

Dish #	Lab ID	Client ID	Empty Dish Weight (g)	Final Empty Dish Weight (g)	Sample Volume (ml)	1st Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	_	Final Empty Dish+Sample weight after 1.5hr drying @103-@105°C (g)	Weight (g)	Result mg/L
16	P4649-12	MC0K20	1.4052	1.4052	1000	1.4055	1.4055	1.4055	0.0003	0.3
17	P4649-13	MC0K22	1.3714	1.3714	1000	1.3772	1.3772	1.3772	0.0058	5.8
18	P4674-01	OUTFALL-001	1.4101	1.4101	750	1.4905	1.4905	1.4905	0.0804	107.2

A = Sample Volume (ml)

B = Final Empty Dish Weight (g)

C = Final Empty Dish + Sample weight after 1.5 hr drying @105°C(g)

104 °C 11/04/2024 11:30 TEMP4 OUT:

D = Weight (g)

Weight (g) =C - B

D Result mg/L =1000 1000 Α

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11:00

# WORKLIST(Hardcopy Internal Chain)

78133266	Date: 10-31-2024 11:45:53	Raw Sample Collect Date Mathod
al Chain)	Department: Wet-Chemistry	Customer
VORKLIST(Hardcopy Internal Chain)		Preservative
WORKI	WorkList ID: 184987	Matrix Test
	TSS-10312024	Customer Sample
P4649-	WorkList Name	Sample

		N 10				בי	Date : 10-31-204	10-51-2024 11:45:53
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
DARTA 04								
10-4704	OUIFALL-001	Water	TSS	Cool 4 deg C	RSBE01	K51	10/24/2024	2 10110
P4649-01	MC0JZ7	Water	TSS	Cool 4 dea C	TETBAG		10/31/2024	SM2540 D
P4649-02	MC0JZ9	Water	Tee		01719	K61	10/29/2024	SM2540 D
PA6A9_03	F0/10/04	Male	222	Cool 4 deg C	TETR16	K61	10/29/2024	SM2540 D
	MCONO	Water	TSS	Cool 4 deg C	TETR16	K61	10/29/2024	SMOSAOD
P4649-04	MC0K04	Water	TSS	Cool 4 den C	TETD16	707	1707/07/07	SINES TO D
P4649-05	MC0K06	Water	TSS	Cook 1 loo?	ירועוס	LOV :	10/29/2024	SM2540 D
P4649-06	MCOKOR	Mich		O San t 1000	IEIK16	K61	10/29/2024	SM2540 D
		water	ISS	Cool 4 deg C	TETR16	K61	10/29/2024 SM2540 D	SM2540 D
F4649-13	MC0K22	Water	TSS	Cool 4 dea C	TETD46	100		
P4649-07	MC0K10	Water	TEG	) D	- FINIO	100	10/29/2024	SM2540 D
DAGAG 00		אמופו	200	Cool 4 deg C	TETR16	K61	10/29/2024	SM2540 D
200	MOONIZ	Water	TSS	Cool 4 deg C	TETR16	K61	10/29/2024 SM2540 D	CMOSAOD
P4649-09	MC0K14	Water	TSS	Cool 4 dea C	ТСТО 16	25		Civic 340 D
P4649-10	MC0K16	Water	Tee		- LINIS	Noi	10/29/2024	SM2540 D
DARAG 11	0770074		200	Cool 4 deg C	TETR16	K61	10/29/2024	SM2540 D
	MCUNIS	Water	TSS	Cool 4 deg C	TETR16	K61	10/29/2024	CM2640 D
P4649-12	MC0K20	Water	TSS	Cool 4 dea C	TETD16	2 2	- 1	Sivization
P4638-02	COMP	Motor	COL			100	10/29/2024	SM2540 D
		Malei	200	Cool 4 deg C	ARAM01	L11	10/30/2024	SM2540 D
							1	1 2: 21:

Date/Time 11.04.2024

Raw Sample Received by:

00:00

11.04 - 20 24

Date/Time

Raw Sample Relinquished by: Raw Sample Received by:



**Instrument ID:** 

WC SC-3

#### Daily Analysis Runlog For Sequence/QCBatch ID # LB133266

Review By	Nih	a	Review On	11/4/2024 2:44:16 PM
Supervise By	lwo	na	Supervise On	11/4/2024 4:46:27 PM
SubDirectory	LB1	133266	Test	TSS
STD. NAME		STD REF.#		
ICAL Standard		N/A		
ICV Standard		N/A		
CCV Standard		N/A		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		N/A		
Chk Standard		N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB133266BL	LB133266BL	МВ	11/04/24 09:30		Niha	ОК
2	LB133266BS	LB133266BS	LCS	11/04/24 09:30		Niha	ОК
3	P4638-02	COMP	SAM	11/04/24 09:30		Niha	ОК
4	P4638-02DUP	COMPDUP	DUP	11/04/24 09:30		Niha	ОК
5	P4649-01	MC0JZ7	SAM	11/04/24 09:30		Niha	ОК
6	P4649-02	MC0JZ9	SAM	11/04/24 09:30		Niha	ОК
7	P4649-03	MC0K01	SAM	11/04/24 09:30		Niha	ОК
8	P4649-04	MC0K04	SAM	11/04/24 09:30		Niha	ОК
9	P4649-05	MC0K06	SAM	11/04/24 09:30		Niha	ОК
10	P4649-06	MC0K08	SAM	11/04/24 09:30		Niha	ОК
11	P4649-07	MC0K10	SAM	11/04/24 09:30		Niha	ОК
12	P4649-08	MC0K12	SAM	11/04/24 09:30		Niha	ОК
13	P4649-09	MC0K14	SAM	11/04/24 09:30		Niha	ОК
14	P4649-10	MC0K16	SAM	11/04/24 09:30		Niha	ОК
15	P4649-11	MC0K18	SAM	11/04/24 09:30		Niha	ОК
16	P4649-12	MC0K20	SAM	11/04/24 09:30		Niha	ОК
17	P4649-13	MC0K22	SAM	11/04/24 09:30		Niha	ОК
18	P4674-01	OUTFALL-001	SAM	11/04/24 09:30		Niha	ОК

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9 40

12



#### **Prep Standard - Chemical Standard Summary**

Order ID :	P4649
Test :	TSS
Prepbatch ID :	
Sequence ID/Qc Bate	ch ID: LB133266,
Coquonos ibreo but	511 ID. 25 100200,
Standard ID :	
Chemical ID :	
Chemical ID :	

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#### **CHEMICAL RECEIPT LOG BOOK**

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
				1	/	

2

4

6

8

10

4

14

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# SHIPPING DOCUMENTS

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USEPA CLP COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 3-103024-145313-0081

Lab: Chemtech Lab

Lab Contact: Yazmeen Gomez

Lab Phone: (908) 728-3147

DateShipped: 10/30/2024

CarrierName: FedEx
AirbillNo: 779630334693

DAS #: R36720
Cooler #: TSS SW/TW

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-TW-01- 20241029	MC0JZ7	Treatment Water/ START	Grab	rab TSS(14)	2890 (4 C) (1)	TW-01	10/29/2024 12:20	
ET-TW-02- 20241029	MC0JZ9	Treatment Water/ START	Grab	TSS(14)	2894 (4 C) (1)	TW-02	10/29/2024 12:30	
ET-TW-03- 20241029	MC0K01	Treatment Water/ START	Grab	TSS(14)	2898 (4 C) (1)	TW-03	10/29/2024 12:45	
ET-TW-04- 20241029	MC0K04	Treatment Water/ START	Grab	TSS(14)	2905 (4 C) (1)	TW-04	10/29/2024 12:40	
ET-WW-01- 20241029	MC0K06	Waste Water/ START	Grab	TSS(14)	2909 (4 C) (1)	WW-01	10/29/2024 12:05	
ET-WW-02- 20241029	MC0K08	Waste Water/ START	Grab	TSS(14)	2913 (4 C) (1)	WW-02	10/29/2024 11:20	
ET-WW-04- 20241029	MC0K10	Waste Water/ START	Grab	TSS(14)	2917 (4 C) (1)	WW-04	10/29/2024 10:20	
ET-WW-05- 20241029	MC0K12	Waste Water/ START	Grab	TSS(14)	2923 (4 C) (1)	WW-05	10/29/2024 11:05	
ET-WW-06- 20241029	MC0K14	Waste Water/ START	Grab	TSS(14)	2927 (4 C) (1)	WW-06	10/29/2024 11:50	
ET-WW-08- 20241029	MC0K16	Waste Water/ START	Grab	TSS(14)	2931 (4 C) (1)	WW-08	10/29/2024 10:40	

	Shipment for Case Complete? N
Special Instructions: TSS SW/TW	Samples Transferred From Chain of Custody #
Analysis Key: TSS=Total Suspended Solids	

Receipt	Condition Upon	Sample	Date/Time	Received by (Signature and Organization)	Date/Time	Relinquished by (Signature and Organization)	Items/Reason
38.	Grat 1	If (	945	CV	10/30/24	Pay & START	
Litze	4 Seal	Ciste				0'	
pres	BLK	the					
	NICK	Inf					

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USEPA CLP COC (LAB COPY)

**CHAIN OF CUSTODY RECORD** 

No: 3-103024-145313-0081

Lab: Chemtech Lab

Lab Contact: Yazmeen Gomez Lab Phone: (908) 728-3147

DateShipped: 10/30/2024 CarrierName: FedEx AirbillNo: 779630334693

DAS #: R36720 Cooler #: TSS SW/TW

	ring .								
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only	
ET-SW-01- 20241029	MC0K18	Surface Water/ START	Grab	TSS(14)	2935 (4 C) (1)	SW-01	10/29/2024 12:55		
ET-SW-02- 20241029	MC0K20	Surface Water/ START	Grab	TSS(14)	2939 (4 C) (1)	SW-02	10/29/2024 11:35		
ET-SW-04- 20241029	MC0K22	Surface Water/ START	Grab	TSS(14)	2945 (4 C) (1)	SW-04	10/29/2024 09:45		
ET-DUP-01- 20241029	MC0K24	Waste Water/ START	Grab	TSS(14)	2950 (4 C) (1)	DUP-01	10/29/2024 10:00	Empty	

	Shipment for Case Complete? N			
Special Instructions: TSS SW/TW	Samples Transferred From Chain of Custody #			
Analysis Key: TSS=Total Suspended Solids				

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt	
	fulf START	10/30/24	Ch2	10-31-24	Je-Gr#1 38	
					Custody Seal Intach	
					Tens Bluk mes	



#### Laboratory Certification

	1
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148

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