

ANALYTICAL RESULTS SUMMARY

GENERAL CHEMISTRY

PROJECT NAME : R36720

TETRA TECH, EMI 240 Continental Drive, Suite 200

Newark, DE - 19713

Phone No: 302-738-7551

ORDER ID: P4990

ATTENTION : Ava Heiss



Laboratory Certification ID # 20012







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Cover Page

- Order ID : P4990
- Project ID : R36720
 - Client : Tetra Tech, EMI

Lab Sample Number

P4990-01
P4990-02
P4990-03
P4990-04
P4990-05
P4990-06
P4990-07

Client Sample Number

MC0KB5 MC0KB6 MC0KB7 MC0KB8 MC0KB9 MC0KC2 MC0KC4

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 :

N. N.

NYDOH CERTIFICATION NO - 11376



NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Tetra Tech, EMI Project Name: R36720 Project # N/A Chemtech Project # P4990 Test Name: TSS

A. Number of Samples and Date of Receipt:

7 Water samples were received on 11/23/2024.

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.

Signature

N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 4:22 pm, Nov 27, 2024

2.1



DATA REPORTING QUALIFIERS- INORGANIC

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

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
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	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 OR	 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
Н	Sample Analysis Out Of Hold Time



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4990

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	
Is the chain of custody signed and complete	<u>✓</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
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	<u>✓</u>
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	
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?	
Does the case narrative summarize all QC failure?	<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



A B C D

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LAB CHRONICLE	
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OrderID: Client: Contact:	P4990 Tetra Tech, EMI Ava Heiss			OrderDate: Project: Location:	11/25/2024 10: R36720 L61	14:00 AM		
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4990-01	МСОКВ5	WATER			11/21/24 12:10			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4990-02	MC0KB6	WATER			11/21/24 11:00			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4990-03	MC0KB7	WATER	TSS	SM2540 D	11/21/24 13:15		11/26/24	11/23/24
			155	SM2540 D			10:00	
P4990-04	МСОКВ8	WATER	TSS	SM2540 D	11/21/24 09:55		11/26/24	11/23/24
P4990-05	МСОКВ9	WATER			11/21/24		10:00	11/23/24
P4990-05	мсокву	WATER			11/21/24 10:45			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4990-06	MC0KC2	WATER			11/21/24 10:30			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4990-07	MC0KC4	WATER			11/21/24 11:55			11/23/24
			TSS	SM2540 D			11/26/24 10:00	





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A B C D



Report of Analysis

,	TSS	4.20	1 1.00	4.00	mg/L		11/26/24 10:00	SM 2540 D-15	
]	Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4990-01				Matrix:	WATER		
	Client Sample ID:	MC0KB5				SDG No.:	P4990		Р
	Project:	R36720				Date Received:	11/23/24		
	Client:	Tetra Tech	, EMI			Date Collected:	11/21/24 1	2:10	

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

- 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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^{* =} indicates the duplicate analysis is not within control limits.



Report of Analysis

0 te Ana. Ana Met.	
0	
WATER	
P4990	
11/23/24	
11/21/24 11:00	
	11/21/24 11:00

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Report of Analysis

Parameter TSS	Conc. Qua. 3.50 J	DF MDL 1 1.00	LOQ / CRQL 4.00	Units mg/L	Prep Date	Date Ana.	Ana Met. SM 2540 D-15	
					% Solid:	0		
Lab Sample ID:	P4990-03				Matrix:	WATER		
Client Sample ID:	MC0KB7				SDG No.:	P4990		D
Project:	R36720				Date Received:	11/23/24		C
Client:	Tetra Tech	, EMI			Date Collected:	11/21/24 1	3:15	

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Report of Analysis

rameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
					% Solid:	0		J
Lab Sample ID:	P4990-04				Matrix:	WATER		
Client Sample ID:	MC0KB8				SDG No.:	P4990		
Project:	R36720				Date Received:	11/23/24		
Client:	Tetra Tech,	EMI			Date Collected:	11/21/24 0	9:55	

- U = Not Detected
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- N =Spiked sample recovery not within control limits



Report of Analysis

					% Solid:	0		
Luo cumpto 12.	1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
Lab Sample ID:	P4990-05				Matrix	WATER		
Client Sample ID:	MC0KB9				SDG No.:	P4990		
Project:	R36720				Date Received:	11/23/24		
Client:	Tetra Tech	ı, EMI			Date Collected:	11/21/24 1	0:45	
	Project:	Project:R36720Client Sample ID:MC0KB9	Project:R36720Client Sample ID:MC0KB9	Project:R36720Client Sample ID:MC0KB9	Project:R36720Client Sample ID:MC0KB9Lab Sample ID:P4990-05	Project:R36720Date Received:Client Sample ID:MC0KB9SDG No.:Lab Sample ID:P4990-05Matrix: % Solid:	Project:R36720Date Received:11/23/24Client Sample ID:MC0KB9SDG No.:P4990Lab Sample ID:P4990-05Matrix:WATER	Project:R36720Date Received:11/23/24Client Sample ID:MC0KB9SDG No.:P4990Lab Sample ID:P490-05Matrix:WATER

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- LOD = Limit of Detection
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- J = Estimated Value
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Report of Analysis

	TSS	2.60 J	1 1.00	4.00	mg/L		11/26/24 10:00	SM 2540 D-15	
]	Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4990-06				Matrix:	WATER		
	Client Sample ID:	MC0KC2				SDG No.:	P4990		
	Project:	R36720				Date Received:	11/23/24		Ľ
	Client:	Tetra Tech	n, EMI			Date Collected:	11/21/24 1	0:30	L

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Report of Analysis

,	TSS	9.60	1 1.00	4.00	mg/L		11/26/24 10:00	SM 2540 D-15	
]	Parameter	Conc. Qua	. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4990-07				Matrix:	WATER		
	Client Sample ID:	MC0KC4			;	SDG No.:	P4990		Р
	Project:	R36720			-	Date Received:	11/23/24		Ľ
	Client:	Tetra Tecl	n, EMI		-	Date Collected:	11/21/24 1	1:55	

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- LOD = Limit of Detection
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<u>QC RESULT</u> <u>SUMMARY</u>

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A B C D

Preparation	Blank	Summary
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Client:	Tetra Tech, EMI				SDG No.:	P4990	
Project:	R36720						
Analyte	Units	s Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: TSS	LB133644BL mg/L	< 2.0000	2.0000	U	1	4	11/26/2024



Duplicate Sample Summary

SS SS		mg/L	+/-5	4480		4520		1	0.89		11/26/2024
alyte		Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Client ID:	14B-4DUP					Percent Sol	ids for Spil	ce Sample:	0		
Project:	R36720					Sample ID:	P	4997-04			
Client:	Tetra Tech, El	MI				SDG No.:	P49) 90			

B C D

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A B C D

Laboratory	Control	Samp	le Summary
Laboratory	Control		

Client: Project:	Tetra Tech, EMI R36720				SDG Run	No.: No.:	P4990 LB133644		
nalyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
ample ID	LB133644BS								
SS		mg/L	550	540		98	1	90-110	11/26/2024



<u>SHIPPING</u> DOCUMENTS

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Page 1 of 1

USEPA CLP COC (LAB COPY)

DateShipped: 11/22/2024

CarrierName: FedEx

AirbillNo: 7701 5007 8136

CHAIN OF CUSTODY RECORD

DAS #: R36720 Cooler #: TSS

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-WW-01- 20241121	MC0KB5	Waste Water/ START	Grab	TSS(14)	3148 (4 C) (1)	VVV-01	11/21/2024 12:10	
ET-WW-02- 20241121	MC0KB6	Waste Water/ START	Grab	TSS(14)	3151 (4 C) (1)	WW-02	11/21/2024 11:00	
ET-WW-03- 20241121	MC0KB7	Waste Water/ START	Grab	TSS(14)	3154 (4 C) (1)	WW-03	11/21/2024 13:15	
ET-WW-04- 20241121	MC0KB8	Waste Water/ START	Grab	TSS(14)	3157 (4 C), 3188 (4 C), 3189 (4 C) (3)	WW-04	11/21/2024 09:55	
ET-WW-05- 20241121	МС0КВ9	Waste Water/ START	Grab	TSS(14)	3160 (4 C) (1)	WWV-05	11/21/2024 10:45	
ET-WW-08- 20241121	MC0KC2	Waste Water/ START	Grab	TSS(14)	3174 (4 C) (1)	WW-08	11/21/2024 10:30	
ET-WW-06- 20241121	MC0KC4	Waste Water/ START	Grab	TSS(14)	3176 (4 C) (1)	WW-06	11/21/2024 11:55	
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	Shipment for Case Complete? N
Sample(s) to be used for Lab QC: ET-WW-04-20241121 Tag 3157, ET-WW-04-20241121 Tag 3188, ET-WW-04-20241121 Tag 3189 - Special Instructions: TSS	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
Sumpleship	Southing STARY	11-22-21/140	2 Denne	11 23 24	1.5
				10200	If courth 1
					Tepp blan Provil
		JI			Custory set Im

21 of 22

No: 3-112224-082904-0106

P4990

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

Lab: Chemtech Lab

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6.1



Laboratory Certification

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