

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: P4989

ATTENTION : Ava Heiss



Laboratory Certification ID # 20012





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Client Sample Number

Cover Page

- Order ID : P4989
- Project ID : R36720
 - Client : Tetra Tech, EMI

Lab Sample Number

P4989-01	MC0KA6
P4989-02	MC0KA7
P4989-03	MC0KA8
P4989-04	MC0KA9
P4989-05	MC0KB0
P4989-06	MC0KB1
P4989-07	MC0KB2
P4989-08	MC0KB3
P4989-09	MC0KB4

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 :

Date: 11/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

P4989



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

CASE NARRATIVE

2.1

Tetra Tech, EMI Project Name: R36720 Project # N/A Chemtech Project # P4989 Test Name: TSS

A. Number of Samples and Date of Receipt:

9 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_____



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 #: P4989

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	
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	
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	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓ ✓ ✓ ✓ ✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI



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OrderID: Client: Contact:	P4989 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
P4989-01	МСОКА6	WATER			11/21/24 12:00			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4989-02	MC0KA7	WATER			11/21/24 13:00			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4989-03	MC0KA8	WATER			11/21/24 11:40			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4989-04	МСОКАЭ	WATER			11/21/24 11:15			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4989-05	МСОКВО	WATER			11/21/24 09:35			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4989-06	MC0KB1	WATER			11/21/24 12:25			11/23/24
			TSS	SM2540 D			11/26/24 10:00	
P4989-07	MC0KB2	WATER			11/21/24 12:30			11/23/24
			TSS	SM2540 D			11/26/24 10:00	



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A B C D

LAB CHRONICLE	
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P4989-08	МСОКВЗ	WATER		11/21/24 12:40	11/23/24
			TSS	SM2540 D	11/26/24 10:00
P4989-09	MC0KB4	WATER		11/21/24 12:35	11/23/24
			TSS	SM2540 D	11/26/24
					10:00





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A B C D



Report of Analysis

	rss	1.20	- <u>-</u>	1	1.00	4.00	mg/L	T op Duit	11/26/24 10:00	SM 2540 D-15	
1	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
								% Solid:	0		J
	Lab Sample ID:	P49	89-01					Matrix:	WATER		
	Client Sample ID:	MC	0KA6					SDG No.:	P4989		Р
	Project:	R36	5720					Date Received:	11/23/24		
	Client:	Tetr	ra Tech,	EMI				Date Collected:	11/21/24 1	2:00	

- 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

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



Report of Analysis

'arameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	% Solid: Prep Date	0 Date Ana.	Ana Met.
					% Solid:	0	
Lab Sample ID:	P4989-02				Matrix:	WATER	
Client Sample ID:	MC0KA7				SDG No.:	P4989	
Project:	R36720				Date Received:	11/23/24	
Client:	Tetra Tech,	EMI			Date Collected:	11/21/24 1	3:00
	Project: Client Sample ID:	Project: R36720 Client Sample ID: MC0KA7	Project:R36720Client Sample ID:MC0KA7	Project:R36720Client Sample ID:MC0KA7	Project:R36720Client Sample ID:MC0KA7	Project:R36720Date Received:Client Sample ID:MC0KA7SDG No.:	Project:R36720Date Received:11/23/24Client Sample ID:MC0KA7SDG No.:P4989

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Report of Analysis

Client:Tetra Tech, EMIDate Collected:11/21/24 11:40Project:R36720Date Received:11/23/24Client Sample ID:MC0KA8SDG No.:P4989Lab Sample ID:P4989-03Matrix:WATER% Solid:00
Project:R36720Date Received:11/23/24Client Sample ID:MC0KA8SDG No.:P4989Lab Sample ID:P4989-03Matrix:WATER
Project:R36720Date Received:11/23/24Client Sample ID:MC0KA8SDG No.:P4989
Project: R36720 Date Received: 11/23/24
Client: Tetra Tech, EMI Date Collected: 11/21/24 11:40

- U = Not Detected
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Report of Analysis

Client: Tetra Tech, EMI Date Collected: 11/21/24 11:15 Project: R36720 Date Received: 11/23/24 Client Sample ID: MC0KA9 SDG No.: P4989 Lab Sample ID: P4989-04 Matrix: WATER % Solid: 0 Parameter Conc. Qua. DF MDL LOQ / CRQL Units Prep Date Ana Met.	TSS	1.10 J	1 1.00	4.00	mg/L		11/26/24 10:00	SM 2540 D-15
Project:R36720Date Received:11/23/24Client Sample ID:MC0KA9SDG No.:P4989Lab Sample ID:P4989-04Matrix:WATER	Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Project:R36720Date Received:11/23/24Client Sample ID:MC0KA9SDG No.:P4989						% Solid:	0	
Project: R36720 Date Received: 11/23/24	Lab Sample ID:	P4989-04				Matrix:	WATER	
	Client Sample ID:	MC0KA9				SDG No.:	P4989	
Client: Tetra Tech, EMI Date Collected: 11/21/24 11:15	Project:	R36720				Date Received:	11/23/24	
	Client:	Tetra Tech, I	EMI			Date Collected:	11/21/24 1	1:15

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- D = Dilution
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- J = Estimated Value
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Report of Analysis

Client: Tetra Tech, EMI Date Collected: 11/21/24 09:35 Project: R36720 Date Received: 11/23/24 Client Sample ID: MC0KB0 SDG No.: P4989 Lab Sample ID: P4989-05 Matrix: WATER % Solid: 0 Parameter Conc. Qua. DF MDL LOQ/CRQL Units Prep Date Ana Met.
Project:R36720Date Received:11/23/24Client Sample ID:MC0KB0SDG No.:P4989Lab Sample ID:P4989-05Matrix:WATER
Project:R36720Date Received:11/23/24Client Sample ID:MC0KB0SDG No.:P4989
Project: R36720 Date Received: 11/23/24
Client: Tetra Tech, EMI Date Collected: 11/21/24 09:35

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Report of Analysis

,	TSS	31.8	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:	P4989-06			1	Matrix:	WATER		L
	Client Sample ID:	MC0KB1			:	SDG No.:	P4989		μ
	Project:	R36720			1	Date Received:	11/23/24		Ľ
	Client:	Tetra Tech	, EMI		1	Date Collected:	11/21/24 1	2:25	Ľ

- U = Not Detected
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Report of Analysis

7	ISS	21.1	1 1.00	4.00	mg/L		11/26/24 10:00	SM 2540 D-15	_
ł	Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
						% Solid:	0		J
	Lab Sample ID:	P4989-07				Matrix:	WATER		L
	Client Sample ID:	MC0KB2				SDG No.:	P4989		μ
	Project:	R36720				Date Received:	11/23/24		Ľ
	Client:	Tetra Tech,	EMI			Date Collected:	11/21/24 1	2:30	Ľ
_									

- U = Not Detected
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- LOD = Limit of Detection
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- H = Sample Analysis Out Of Hold Time

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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:	P4989-08]	Matrix:	WATER		
Client Sample ID:	MC0KB3			:	SDG No.:	P4989		
Project:	R36720			1	Date Received:	11/23/24		
Client:	Tetra Tech,	EMI		1	Date Collected:	11/21/24 1	2:40	
(Client:	Client: Tetra Tech,	Client: Tetra Tech, EMI Date Collected:	Client: Tetra Tech, EMI Date Collected: 11/21/24 1	Client: Tetra Tech, EMI Date Collected: 11/21/24 12:40			

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- 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

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Report of Analysis

Client: Tetra Tech, EMI Date Collected: 11/21/24 12:35 Project: R36720 Date Received: 11/23/24 Client Sample ID: MC0KB4 SDG No.: P4989 Lab Sample ID: P4989-09 Matrix: WATER % Solid: 0 Matrix: Ana Met.
Project:R36720Date Received:11/23/24Client Sample ID:MC0KB4SDG No.:P4989Lab Sample ID:P4989-09Matrix:WATER
Project:R36720Date Received:11/23/24Client Sample ID:MC0KB4SDG No.:P4989
Project: R36720 Date Received: 11/23/24
Client: Tetra Tech, EMI Date Collected: 11/21/24 12:35

- U = Not Detected
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- MDL = Method Detection Limit
- LOD = Limit of Detection
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<u>QC RESULT</u> <u>SUMMARY</u>

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A B C D



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B C D

Preparation Blank Summary

Client:	Tetra Tech, EMI				SDG No.:	P4989	
Project:	R36720						
Analyte	Units	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	mg/	т	+/-5	4480		4520		1	0.89		11/26/2024
nalyte	Un	its	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	ke Sample:	0		
Project:	R36720					Sample ID:	Р	4997-04			
Client:	Tetra Tech, EMI					SDG No.:	P49	989			

B C

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D



A B C D

Client: Project:	Tetra Tech, EMI R36720				SDG Run	No.: No.:	P4989 LB133644		
analyte		Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
ample ID	LB133644BS								
ГSS		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 8787

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

No: 3-112224-082559-0105

P4989

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
ET-DUP-06- 20241121	MC0KA6	Waste Water/ START	Grab	TSS(14)	3116 (4 C) (1)	DUP-06	11/21/2024 12:00	
ET-SW-01- 20241121	MC0KA7	Surface Water/ START	Grab	TSS(14)	3119 (4 C) (1)	SW-01	11/21/2024 13:00	
ET-SW-02- 20241121	MC0KA8	Surface Water/ START	Grab	TSS(14)	3122 (4 C) (1)	SW-02	11/21/2024 11:40	
ET-SW-03- 20241121	MC0KA9	Surface Water/ START	Grab	TSS(14) 3129 (4 C) (1)		SW-03	11/21/2024 11:15	
ET-SW-04- 20241121	MC0KB0	Surface Water/ START	Grab	TSS(14)	3133 (4 C) (1)	SW-04	11/21/2024 09:35	
ET-TW-01- 20241121	MC0KB1	Treatment Water/ START	Grab	TSS(14)	3136 (4 C) (1)	TW-01	11/21/2024 12:25	
ET-TW-02- 20241121	MC0KB2	Treatment Water/ START	Grab	TSS(14)	3139 (4 C) (1)	TW-02	11/21/2024 12:30	
ET-TW-03- 20241121	MC0KB3	Treatment Water/ START	Grab	TSS(14) 3142 (4 C) (1)		TW-03	11/21/2024 12:40	
ET-TW-04- 20241121	MC0KB4	Treatment Water/ START	Grab	TSS(14)	3145 (4 C) (1)	TW-04	11/21/2024 12:35	

CHAIN OF CUSTODY RECORD

DAS #: R36720

Cooler #: TSS

	Shipment for Case Complete? N		
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
Sample	Pappi / START	11/22/24	Reen	11 28/24	1.2-
N.				10:00	IR com H
					Tey blue frend
					Cludey sur Th

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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