

DATA PACKAGE

GENERAL CHEMISTRY METALS

PROJECT NAME: PARSIPPANY WASTEWATER QUARTERLY 2024

METEM A GE POWER BUSINESS 700 Parsippany Road

Parsippany, NJ - 07054

Phone No: 973-887-6635

ORDER ID: P4681

ATTENTION: Sundas Pervez







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Cover Page

Order ID	:	P4681
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Project ID: Parsippany Wastewater Quarterly 2024

Client: METEM A GE POWER Business

Lab Sample Number Client Sample Number

P4681-01 Q4-WW P4681-02 PH

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:	11/20/2024

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

METEM A GE POWER Business

Project Name: Parsippany Wastewater Quarterly 2024

Project # N/A

Chemtech Project # P4681 Test Name: Metals Group5

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/01/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Cyanide, Field pH and Metals Group5. This data package contains results for Metals Group5.

C. Analytical Techniques:

The analysis and digestion of Metals Group5 was based on method 200.7.

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 Matrix Spike (Q4-WWMS) analysis met criteria for all samples except for Cadmium due to Chemical interference during Digestion Process.

The Matrix Spike Duplicate analysis met criteria for all samples.

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

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

P4681-01+QC Report Straight 25X Dilution for all elements due to presence of contaminants in the samples and very high presence of Sodium in the sample. Without minimum 25X dilution this sample is not able to analyze.

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.

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

CASE NARRATIVE

METEM A GE POWER Business

Project Name: Parsippany Wastewater Quarterly 2024

Project # N/A

Chemtech Project # P4681 Test Name: Cyanide,Field pH

A. Number of Samples and Date of Receipt:

2 Water samples were received on 11/01/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Cyanide, Field pH and Metals Group5. This data package contains results for Cyanide, Field pH.

C. Analytical Techniques:

The analysis of Cyanide was based on method SM4500-CN C,E and The analysis of Field pH was based on method SM4500-H B.

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 Matrix Spike analysis met criteria for all samples.

The Matrix Spike 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		
Signature		

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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
- E 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
- OR 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
- H Sample Analysis Out Of Hold Time



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4681

	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	√ √ √
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	<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>
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: 11/20/2024

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Q4-WW

P4681-01

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58.5

JD

36.0

Hit Summary Sheet SW-846

P4681 P4681 SDG No.: Order ID: Client: METEM A GE POWER Business Parsippany Wastewater Quarterly 2024 **Project ID:** Sample ID **Client ID** Matrix **Parameter** Concentration \mathbf{C} MDL RDL Units Client ID: Q4-WW P4681-01 Water 29.0 JD Q4-WW Chromium 13.0 125 ug/L P4681-01 Q4-WW Water Nickel 193 JD 32.0 500 ug/L

Water

Zinc

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500

ug/L



A



SAMPLE DATA

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Fax: 908 789 8922

Report of Analysis

Client: METEM A GE POWER Business Date Collected: 11/01/24 Project: Date Received: 11/01/24 Parsippany Wastewater Quarterly 2024 Client Sample ID: Q4-WW SDG No.: P4681 Lab Sample ID: P4681-01 Matrix: Water Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua. DF MD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-43-9	Cadmium	5.25	UDN25 5.25	75.0	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	
7440-47-3	Chromium	29.0	JD 25 13.0	125	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	
7440-50-8	Copper	38.0	UD 25 38.0	250	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	
7439-92-1	Lead	39.3	UD 25 39.3	150	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	
7440-02-0	Nickel	193	JD 25 32.0	500	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	
7440-22-4	Silver	20.8	UD 25 20.8	125	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	
7440-66-6	Zinc	58.5	JD 25 36.0	500	ug/L	11/04/24 11:30	11/08/24 22:24	EPA 200.7	

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Metals Group5

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

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



LAB CHRONICLE

OrderID: P4681

Client: METEM A GE POWER Business

Contact: Sundas Pervez

OrderDate: 11/1/2024 3:08:00 PM

Project: Parsippany Wastewater Quarterly 2024

Location: L12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4681-01	Q4-WW	Water			11/01/24			11/01/24
			Metals Group5	200.7		11/04/24	11/08/24	

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Α

C



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

Report of Analysis

Client: METEM A GE POWER Business Date Collected: 11/01/24 14:55

Project: Parsippany Wastewater Quarterly 2024 Date Received: 11/01/24

Client Sample ID: Q4-WW SDG No.: P4681

Lab Sample ID: P4681-01 Matrix: WATER

% Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cyanide	0.00093 U	1 0.00093	0.0050	mg/L	11/11/24 08:00	11/11/24 12:54	SM 4500-CN
							C-16 plus E-16

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



PH

Fax: 908 789 8922

Report of Analysis

Client: METEM A GE POWER Business Date Collected: 11/01/24 14:55

Project: Parsippany Wastewater Quarterly 2024 Date Received: 11/01/24

Client Sample ID: Lab Sample ID: P4681-02 Matrix: WATER

% Solid:

P4681

SDG No.:

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Field pH	7.09	1 0	0	рН		11/01/24 14:50	6 SM4500-H B

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



LAB CHRONICLE

OrderID: P4681

Client: METEM A GE POWER Business

Contact: Sundas Pervez

OrderDate: 11/1/2024 3:08:00 PM

Project: Parsippany Wastewater Quarterly 2024

Location: L12

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4681-01	Q4-WW	WATER			11/01/24 14:55			11/01/24
			Cyanide	SM4500-CN C,E		11/11/24	11/11/24 12:54	
P4681-02	РН	WATER			11/01/24 14:55			11/01/24
			Field pH	SM4500-H B			11/01/24 14:56	

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SHIPPING DOCUMENTS

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	13

COC Number 2046202

	CLIENT INFORMATION		CLIENT PROJECT INFO			LIENT BILLING INFORMATION
	NETEM AGERWAT BUSINESS	PROJECT NAME	E: Parsippany	y wastewat	BILL TO:	PO#:
ADDRESS:	700 Parsippany Road,	PROJECT NO.:	LOCATIO		ADDRESS:	
	Sippany STATE: NJZIP:07654	PROJECT MANAG	GER:		CITY	STATE: = :ZIP:
7.	SUNDAS PETVEZ	e-mail:			ATTENTION:	PHONE:
	2-289-251 FAX:	PHONE:	FAX:			ANALYSIS
	DATA TURNAROUND INFORMATION		A DELIVERABLE INFO	RMATION		
FAX (RUSH) _ HARDCOPY (D EDD: _ *TO BE APPRO	DAYS*	Level 1 (Results (Only) Level 4 (QC + F + QC) NJ Reduced C + QC NYS ASP A C	Full Raw Data) I US EPA CLP NYS ASP B 1 2 3	Cylind Scarding	7 8 9 9
ALLIANCE	2001505	SAMPLE TYPE	SAMPLE		PRESERVATIVES	COMMENTS ← Specify Preservatives
SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE TYPE MATRIX OO BE	DATE TIME	B D E	F 6	A-HCI D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
1.	Q4 Wastewater	WV	11-1-24 1455 L	11/1/1		
2.						PH 7.9
3.						
4.						
5.						
6.						
7.						
8.						
9.		1,				
10.						
RELINQUISHED B 1. RELINQUISHED B 2. RELINQUISHED B	Y SAMPLER: DATE/TIME: 2. Y SAMPLER: DATE/TIME: 1615 RECEIVED BY:	0 1500			T 🔾 NON COMPLIANT 🗘 COOLE	
3	11-1-24 3.		Page of			☐ YES ☐ NO

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FIELD SAMPLING LOG

Client Name: Meter AGE power Business Client Rep on Site: Sundas PCSVez Client Address: 700 parsippany Road

Sampling Date: 1-124 1430

Arrival Time:

Project Name: quartetly and 4

Project Location: VOGS PROMY

Cooler Custody Seal:

Temperature Correction Factor (°C):

FIELD SAMPLING INFORMATION

Departure Time:

Q4 Wastowater CCV C3071 DUP Sampling Location CCV C3071 1500 1457 1455 145 Date/Time of sampling 1-1-2 1502 1458 1456 81-171 Date/Time of Analysis 1 24 Field Measurements 1.09 pН 18.776 21.206 Temperature 8.75 (mS/cm) (99% -101%) Specific Conductance 2

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date:

QA Control# A3041241

Supervisor Review/Date:

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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
	FILESOS
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