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

Cover Page

Order ID : Q1944

Project ID : Tank Farm - Acid Analysis

Client : METEM A GE POWER Business

Lab Sample Number	Client Sample Number
Q1944-01	MELTED-RUBBER-SAMPLE
Q1944-02	CITY-WATER
Q1944-03	CHILLER-WATER

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: 5/9/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

METEM A GE POWER Business
Project Name: Tank Farm - Acid Analysis
Project # N/A
Order ID # Q1944
Test Name: Metals ICP-TAL,Mercury

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 05/02/2025.
2 Water samples were received on 05/02/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Acidity, Alkalinity, Alkalinity, Ammonia, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics and TKN. This data package contains results for Metals ICP-TAL,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-TAL was based on method 6010D, digestion based on method 3050 (soils) and 3010 (waters).The analysis and digestion of Mercury was based on method 7470A. The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate (OK-01-050125DUP) analysis met criteria for all samples except for Barium, Copper, Lead, Potassium due to matrix interference.
The Duplicate (OK-01-050125MSD) analysis met criteria for all samples except for Antimony, Copper, Nickel due to matrix interference.
The Matrix Spike (GB1WMS) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike (OK-01-050125MS) analysis met criteria for all samples except for Antimony due to matrix interference.
The Matrix Spike Duplicate (GB1WMSD) analysis met criteria for all samples except for Mercury due to matrix interference.
The Matrix Spike Duplicate (OK-01-050125MSD) analysis met criteria for all samples except for Antimony, Copper due to matrix interference.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met criteria for all samples.

E. Additional Comments:
The time of sampling were not listed in the COC.

The initial weight for sample Q1944-01 for Metals was taken 0.82g instead of 2.0g due to very limited volume. Sample Q1944-03 for Metals was analyzed with straight 5X dilution due to sample physical appearance, viscosity and matrix.

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Signature_____

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CASE NARRATIVE

METEM A GE POWER Business
Project Name: Tank Farm - Acid Analysis
Project # N/A
Order ID # Q1944
Test Name: pH,Alkalinity,Phenolics,TKN,Ammonia,Acidity

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 05/02/2025.
2 Water samples were received on 05/02/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Acidity, Alkalinity, Alkalinity, Ammonia, Mercury, Metals ICP-TAL, METALS-TAL, pH, Phenolics and TKN. This data package contains results for pH,Alkalinity,Phenolics,TKN,Ammonia,Acidity.

C. Analytical Techniques:
The analysis of pH was based on method 9040C, The analysis of pH was based on method 9045D, The analysis of Phenolics was based on method 9065, The analysis of Acidity was based on method SM2310 B, The analysis of Alkalinity was based on method SM2320 B, The analysis of TKN was based on method SM4500 N Org B or C and The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:
The Holding Times were met for all samples except for CHILLER-WATER of pH, for CITY-WATER of pH.for MELTED-RUBBER-SAMPLE of pH. As these samples are received out of hold.
Sample MELTED-RUBBER-SAMPLE was diluted due to high concentrations for TKN & Sample CHILLER-WATER was diluted due to high concentrations for TKN.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (WATER-TREATMENT-DISCHARGEMS) analysis met criteria for all samples except for Ammonia Due to matrix interference.
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:
The time of sampling were not listed in the COC.
The initial weight for sample Q1944-01 was taken 0.5g instead of 1.0g for Phenolic and TKN due to very limited volume.

The fax and hardcopy is not matching for Phenolics. After fax, at the time of second review lab noticed associated CCV was out side of qc limits therefore these samples were reanalyzed and reported, Hard copy is reported correct.

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Signature_____

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1944**

	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)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
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	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
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** **Date:** **05/09/2025**