

DATA PACKAGE GENERAL CHEMISTRY

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3609

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



| | |
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Cover Page

Order ID : P3609

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3609-01
P3609-02
P3609-03

Client Sample Number

915-J-WS-081424
920-J-WS-081424
TB-01-081424

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: 8/27/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3609

Test Name: Hexavalent Chromium

A. Number of Samples and Date of Receipt:

3 Water samples were received on 08/14/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Hexavalent Chromium.

C. Analytical Techniques:

The analysis of Hexavalent Chromium was based on method 7196A.

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_____

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 |

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P3609

MATRIX: Water

METHOD: 7196A

| | 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:

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3609

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 Custody

✓

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

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 08/27/2024

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

| | | | |
|-----------------|--------------------------------|-------------------|---------------------------------------|
| OrderID: | P3609 | OrderDate: | 8/14/2024 12:48:00 PM |
| Client: | JACOBS Engineering Group, Inc. | Project: | Former Schlumberger Site Princeton NJ |
| Contact: | Mary I. Murphy | Location: | D21,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-----------------|--------|---------------------|--------|-------------------|-----------|-------------------|----------|
| P3609-01 | 915-J-WS-081424 | WATER | | | 08/14/24 10:25 | | | 08/14/24 |
| | | | Hexavalent Chromium | 7196A | | | 08/14/24 17:04 | |
| P3609-02 | 920-J-WS-081424 | WATER | | | 08/14/24 11:20 | | | 08/14/24 |
| | | | Hexavalent Chromium | 7196A | | | 08/14/24 17:08 | |



SAMPLE DATA

| |
|----|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |

Report of Analysis

| | | | |
|-------------------|---------------------------------------|-----------------|----------------|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/14/24 10:25 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/14/24 |
| Client Sample ID: | 915-J-WS-081424 | SDG No.: | P3609 |
| Lab Sample ID: | P3609-01 | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-------------------------------|--------|------|----|--------|------------|-------|-----------|----------------|----------|
| Dissolved Hexavalent Chromium | 0.0030 | U | 1 | 0.0030 | 0.010 | mg/L | | 08/14/24 17:04 | 7196A |

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

Report of Analysis

| | | | |
|-------------------|---------------------------------------|-----------------|----------------|
| Client: | JACOBS Engineering Group, Inc. | Date Collected: | 08/14/24 11:20 |
| Project: | Former Schlumberger Site Princeton NJ | Date Received: | 08/14/24 |
| Client Sample ID: | 920-J-WS-081424 | SDG No.: | P3609 |
| Lab Sample ID: | P3609-02 | Matrix: | WATER |
| | | % Solid: | 0 |

| Parameter | Conc. | Qua. | DF | MDL | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-------------------------------|--------|------|----|--------|------------|-------|-----------|----------------|----------|
| Dissolved Hexavalent Chromium | 0.0030 | U | 1 | 0.0030 | 0.010 | mg/L | | 08/14/24 17:08 | 7196A |

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



QC RESULT SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ

SDG No.: P3609
RunNo.: LB132016

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|---|-------|--------|------------|---------------|---------------------------|------------------|
| Sample ID: ICV Hexavalent Chromium | mg/L | 0.497 | 0.5 | 99 | 90-110 | 08/14/2024 |
| Sample ID: CCV1 Hexavalent Chromium | mg/L | 0.500 | 0.5 | 100 | 90-110 | 08/14/2024 |
| Sample ID: CCV2 Hexavalent Chromium | mg/L | 0.500 | 0.5 | 100 | 90-110 | 08/14/2024 |

Initial and Continuing Calibration Blank Summary

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger Site Princeton NJ

SDG No.: P3609
RunNo.: LB132016

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|---|-------|----------|----------------------|--------------|--------|------|------------------|
| Sample ID: ICB Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 08/14/2024 |
| Sample ID: CCB1 Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 08/14/2024 |
| Sample ID: CCB2 Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.0027 | 0.01 | 08/14/2024 |

Preparation Blank Summary

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3609
Project: Former Schlumberger Site Princeton NJ

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|------------------------------|-------|----------|----------------------|--------------|-------|------|------------------|
| Sample ID: LB132016BL | | | | | | | |
| Hexavalent Chromium | mg/L | < 0.0050 | 0.0050 | U | 0.003 | 0.01 | 08/14/2024 |

Matrix Spike Summary

| | | | |
|-------------------|---------------------------------------|---|----------|
| Client: | JACOBS Engineering Group, Inc. | SDG No.: | P3609 |
| Project: | Former Schlumberger Site Princeton NJ | Sample ID: | P3609-01 |
| Client ID: | 915-J-WS-081424MS | Percent Solids for Spike Sample: | 0 |

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/L | 90-111 | 1.00 | | 0.0030 | U | 1.0 | 2 | 100 | | 08/14/2024 |

Matrix Spike Summary

| | | | |
|-------------------|---------------------------------------|---|----------|
| Client: | JACOBS Engineering Group, Inc. | SDG No.: | P3609 |
| Project: | Former Schlumberger Site Princeton NJ | Sample ID: | P3609-01 |
| Client ID: | 915-J-WS-081424MSD | Percent Solids for Spike Sample: | 0 |

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---------------------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| Hexavalent Chromium | mg/L | 90-111 | 0.99 | | 0.0030 | U | 1.0 | 2 | 99 | | 08/14/2024 |

Duplicate Sample Summary

| | | | |
|-------------------|---------------------------------------|---|----------|
| Client: | JACOBS Engineering Group, Inc. | SDG No.: | P3609 |
| Project: | Former Schlumberger Site Princeton NJ | Sample ID: | P3609-01 |
| Client ID: | 915-J-WS-081424DUP | Percent Solids for Spike Sample: | 0 |

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifie | Duplicate Result | Conc. Qualifie | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---------------------|-------|---------------------|------------------|-------------------|---------------------|-------------------|--------------------|------------|------|------------------|
| Hexavalent Chromium | mg/L | +/-20 | 0.0030 | U | 0.0030 | U | 1 | 0 | | 08/14/2024 |

Duplicate Sample Summary

| | | | |
|-------------------|---------------------------------------|---|----------|
| Client: | JACOBS Engineering Group, Inc. | SDG No.: | P3609 |
| Project: | Former Schlumberger Site Princeton NJ | Sample ID: | P3609-01 |
| Client ID: | 915-J-WS-081424MSD | Percent Solids for Spike Sample: | 0 |

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifie | Duplicate Result | Conc. Qualifie | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---------------------|-------|---------------------|------------------|-------------------|---------------------|-------------------|--------------------|------------|------|------------------|
| Hexavalent Chromium | mg/L | +/-20 | 1.00 | | 0.99 | | 2 | 0.4 | | 08/14/2024 |

Laboratory Control Sample Summary

| | | | |
|-----------------|---------------------------------------|-----------------|----------|
| Client: | JACOBS Engineering Group, Inc. | SDG No.: | P3609 |
| Project: | Former Schlumberger Site Princeton NJ | Run No.: | LB132016 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|---------------------|------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB132016BS | | | | | | | |
| Hexavalent Chromium | mg/L | 0.5 | 0.51 | | 102 | 1 | 90-111 | 08/14/2024 |



RAW DATA

- 1
- 2
- 3
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- 11
- 12
- 13

Analysis Method: 7196A

ANALYST: rubina

Parameter: ~~Hexavalent Chromium~~

SUPERVISOR REVIEW BY: Iwona

Run Number: LB132016

pH Meter ID: WC pH Meter-1

| Reagent/Standard | Lot/Log # |
|--|-----------|
| Calibration Std. hexchrome 0.1 ppm | WP109234 |
| Calibration Std. hexchrome 0.05 ppm | WP109233 |
| calibration std. hexchrome 0.01 ppm | WP109231 |
| calibration std. hexchrome 0 ppm | WP109230 |
| hexavalent chromium color reagent | WP109114 |
| 5N sulfuric acid | WP107791 |
| Calibration Std Hexachrome 0.025 ppm | WP109232 |
| Hexavalent Chromium ICV-LCS Std | |
| Calibration and CCV std HexChrome 0.5PPM | WP109235 |
| Calibration std HexChrome 1.0PPM | WP109236 |

Intercept: -0.0002

Slope: 0.7858

Regression: 0.999995

| Seq | Lab ID | True Value (mg/l) | DF | Initial Vol (ml) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb.at 540nm | | Absorbance Difference | Result (mg/L) | %D | Anal Date | Anal Time |
|-----|--------|-------------------|----|------------------|----------------|---------|----------|-----------------|-------|-----------------------|---------------|------|------------|-----------|
| | | | | | | | | Backgrnd | Color | | | | | |
| 1 | CAL1 | 0 | 1 | 100 | 100 | | 1.78 | 0.000 | 0.000 | 0.000 | 0.000 | | 08/14/2024 | 16:50 |
| 2 | CAL2 | 0.01 | 1 | 100 | 100 | | 1.85 | 0.000 | 0.007 | 0.007 | 0.009 | -10 | 08/14/2024 | 16:51 |
| 3 | CAL3 | 0.025 | 1 | 100 | 100 | | 1.87 | 0.000 | 0.018 | 0.018 | 0.023 | -8 | 08/14/2024 | 16:52 |
| 4 | CAL4 | 0.05 | 1 | 100 | 100 | | 1.88 | 0.000 | 0.040 | 0.040 | 0.051 | 2 | 08/14/2024 | 16:53 |
| 5 | CAL5 | 0.1 | 1 | 100 | 100 | | 1.90 | 0.000 | 0.079 | 0.079 | 0.100 | 0 | 08/14/2024 | 16:54 |
| 6 | CAL6 | 0.5 | 1 | 100 | 100 | | 1.88 | 0.000 | 0.394 | 0.394 | 0.501 | 0.2 | 08/14/2024 | 16:55 |
| 7 | CAL7 | 1 | 1 | 100 | 100 | | 1.84 | 0.000 | 0.785 | 0.785 | 0.999 | -0.1 | 08/14/2024 | 16:56 |

Analysis Method: 7196A

ANALYST:rubina

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY:Iwona

Run Number: LB132016

pH Meter ID:WC pH Meter-1

| Seq | Lab ID | True Value | DF | Initial Vol (ml/gm) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb.at540nm | | Absorbance Difference | Intermediate Result (mg/L) | Anal Date | Anal Time |
|-----|------------|------------|----|---------------------|----------------|---------|----------|----------------|-------|-----------------------|----------------------------|------------|-----------|
| | | | | | | | | Backgrnd | Color | | | | |
| 1 | ICV | 0.5 | 1 | 100 | 100 | | 1.92 | 0.000 | 0.390 | 0.390 | 0.497 | 08/14/2024 | 16:57 |
| 2 | ICB | | 1 | 100 | 100 | | 1.79 | 0.000 | 0.000 | 0.000 | 0.000 | 08/14/2024 | 16:58 |
| 3 | CCV1 | 0.5 | 1 | 100 | 100 | | 1.94 | 0.000 | 0.393 | 0.393 | 0.500 | 08/14/2024 | 16:59 |
| 4 | CCB1 | | 1 | 100 | 100 | | 1.76 | 0.000 | 0.001 | 0.001 | 0.002 | 08/14/2024 | 17:00 |
| 5 | RL Check | 0.01 | 1 | 100 | 100 | | 1.90 | 0.000 | 0.008 | 0.008 | 0.010 | 08/14/2024 | 17:01 |
| 6 | LB132016BL | | 1 | 100 | 100 | | 1.77 | 0.000 | 0.000 | 0.000 | 0.000 | 08/14/2024 | 17:02 |
| 7 | LB132016BS | 0.5 | 1 | 100 | 100 | | 1.92 | 0.000 | 0.400 | 0.400 | 0.509 | 08/14/2024 | 17:03 |
| 8 | P3609-01 | | 1 | 100 | 100 | | 2.06 | 0.000 | 0.000 | 0.000 | 0.000 | 08/14/2024 | 17:04 |
| 9 | P3609-01DU | | 1 | 100 | 100 | | 2.04 | 0.000 | 0.000 | 0.000 | 0.000 | 08/14/2024 | 17:05 |
| 10 | P3609-01MS | 1 | 2 | 100 | 100 | | 2.08 | 0.000 | 0.392 | 0.392 | 0.499 | 08/14/2024 | 17:06 |
| 11 | P3609-01MS | 1 | 2 | 100 | 100 | | 2.06 | 0.000 | 0.390 | 0.390 | 0.497 | 08/14/2024 | 17:07 |
| 12 | P3609-02 | | 1 | 100 | 100 | | 2.04 | 0.000 | 0.000 | 0.000 | 0.000 | 08/14/2024 | 17:08 |
| 13 | CCV2 | 0.5 | 1 | 100 | 100 | | 1.94 | 0.000 | 0.393 | 0.393 | 0.500 | 08/14/2024 | 17:09 |
| 14 | CCB2 | | 1 | 100 | 100 | | 1.74 | 0.000 | 0.000 | 0.000 | 0.000 | 08/14/2024 | 17:10 |

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132016

| | | | |
|------------------|--|--------------|----------------------|
| Review By | rubina | Review On | 8/14/2024 5:21:23 PM |
| Supervise By | Iwona | Supervise On | 8/15/2024 9:24:58 AM |
| SubDirectory | LB132016 | Test | Hexavalent Chromium |
| 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 | WP109234,WP109233,WP109231,WP109230,WP109114,WP107791,WP109232,WP109235,WP109236 | | |

| Sr# | SampleId | ClientID | QcType | Date | Comment | Operator | Status |
|-----|-------------|--------------------|--------|----------------|----------------------------|----------|--------|
| 1 | CAL1 | CAL1 | CAL | 08/14/24 16:50 | | rubina | OK |
| 2 | CAL2 | CAL2 | CAL | 08/14/24 16:51 | | rubina | OK |
| 3 | CAL3 | CAL3 | CAL | 08/14/24 16:52 | | rubina | OK |
| 4 | CAL4 | CAL4 | CAL | 08/14/24 16:53 | | rubina | OK |
| 5 | CAL5 | CAL5 | CAL | 08/14/24 16:54 | | rubina | OK |
| 6 | CAL6 | CAL6 | CAL | 08/14/24 16:55 | | rubina | OK |
| 7 | CAL7 | CAL7 | CAL | 08/14/24 16:56 | | rubina | OK |
| 8 | ICV | ICV | ICV | 08/14/24 16:57 | | rubina | OK |
| 9 | ICB | ICB | ICB | 08/14/24 16:58 | | rubina | OK |
| 10 | CCV1 | CCV1 | CCV | 08/14/24 16:59 | | rubina | OK |
| 11 | CCB1 | CCB1 | CCB | 08/14/24 17:00 | | rubina | OK |
| 12 | RL Check | RL Check | SAM | 08/14/24 17:01 | | rubina | OK |
| 13 | LB132016BL | LB132016BL | MB | 08/14/24 17:02 | | rubina | OK |
| 14 | LB132016BS | LB132016BS | LCS | 08/14/24 17:03 | | rubina | OK |
| 15 | P3609-01 | 915-J-WS-081424 | SAM | 08/14/24 17:04 | | rubina | OK |
| 16 | P3609-01DUP | 915-J-WS-081424DUP | DUP | 08/14/24 17:05 | | rubina | OK |
| 17 | P3609-01MS | 915-J-WS-081424MS | MS | 08/14/24 17:06 | 1ML WP108658+99.0ML SAMPLE | rubina | OK |
| 18 | P3609-01MSD | 915-J-WS-081424MSD | MSD | 08/14/24 17:07 | 1ML WP108658+99.0ML SAMPLE | rubina | OK |

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB132016

| | | | |
|------------------|--|--------------|----------------------|
| Review By | rubina | Review On | 8/14/2024 5:21:23 PM |
| Supervise By | Iwona | Supervise On | 8/15/2024 9:24:58 AM |
| SubDirectory | LB132016 | Test | Hexavalent Chromium |
| 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 | WP109234,WP109233,WP109231,WP109230,WP109114,WP107791,WP109232,WP109235,WP109236 | | |

| | | | | | | | |
|----|----------|-----------------|-----|----------------|--|--------|----|
| 19 | P3609-02 | 920-J-WS-081424 | SAM | 08/14/24 17:08 | | rubina | OK |
| 20 | CCV2 | CCV2 | CCV | 08/14/24 17:09 | | rubina | OK |
| 21 | CCB2 | CCB2 | CCB | 08/14/24 17:10 | | rubina | OK |

Prep Standard - Chemical Standard Summary

Order ID : P3609

Test : Hexavalent Chromium

Prepbatch ID :

Sequence ID/Qc Batch ID: LB132016,

Standard ID :

WP107791,WP108658,WP109114,WP109229,WP109230,WP109231,WP109232,WP109233,WP109234,WP109235,WP109236,

Chemical ID :

E3772,M5211,W2606,W2651,W2979,W3112,

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Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 126 | 5N sulfuric acid | WP107791 | 05/07/2024 | 10/24/2024 | Niha Farheen Shaik | None | None | Iwona Zarych |
| | | | | | | | | 05/07/2024 |

FROM 140.00000ml of M5211 + 860.00000ml of W2606 = Final Quantity: 1.000 L

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------|------------------|----------------------|
| 1993 | HEXAVALENTCHROMIUM STOCK STD 1, 50PPM | WP108658 | 07/09/2024 | 01/09/2025 | Rubina Mughal | WETCHEM_SCALE_5 (WC | None | Iwona Zarych |
| | | | | | | SC-5) | | 07/09/2024 |

FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|-----------------------------------|--------------------------|------------------|------------------------|--------------------|---------------------|------------------|----------------------|
| 114 | hexavalent chromium color reagent | WP109114 | 08/09/2024 | 08/16/2024 | Rubina Mughal | WETCHEM_SCALE_5 (WC | None | Mohan Bera |
| FROM 0.25000gram of W2979 + 50.00000ml of E3772 = Final Quantity: 50.000 ml SC-5) | | | | | | | | |

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|--|---|--------------------------|------------------|------------------------|--------------------|----------------|------------------------|----------------------|
| 1103 | HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM) | WP109229 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PIPETTE_3 (WC) | Mohan Bera |
| FROM 9.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 10.000 ml | | | | | | | | |

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|----------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 110 | calibration std. hexchrome 0 ppm | WP109230 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | None | Mohan Bera |
| FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml | | | | | | | | |

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|-------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|----------------------|
| 109 | calibration std. hexchrome 0.01 ppm | WP109231 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PIPETTE_3 | Mohan Bera |
| FROM 99.80000ml of W3112 + 0.20000ml of WP109229 = Final Quantity: 100.000 ml (WC) | | | | | | | | |

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|---|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|--------------------------|
| 3800 | Calibration Std Hexachrome 0.025 ppm | WP109232 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PIPETTE_3 | Mohan Bera 08/16/2024 |
| FROM 99.50000ml of W3112 + 0.50000ml of WP109229 = Final Quantity: 100.000 ml (WC) | | | | | | | | |

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|--|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|--------------------------|
| 108 | Calibration Std. hexchrome 0.05 ppm | WP109233 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PIPETTE_3 | Mohan Bera 08/16/2024 |
| FROM 99.00000ml of W3112 + 1.00000ml of WP109229 = Final Quantity: 100.000 ml (WC) | | | | | | | | |

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|--------------------------|
| 107 | Calibration Std. hexchrome 0.1 ppm | WP109234 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PIPETTE_3 | Mohan Bera 08/16/2024 |
| FROM 99.80000ml of W3112 + 0.20000ml of WP108658 = Final Quantity: 100.000 ml (WC) | | | | | | | | |

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|--|--------------------------|------------------|------------------------|--------------------|----------------|-------------------|--------------------------|
| 3808 | Calibration and CCV std HexChrome 0.5PPM | WP109235 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PIPETTE_3 | Mohan Bera 08/16/2024 |
| FROM 99.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 100.000 ml (WC) | | | | | | | | |

Wet Chemistry STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u> | <u>NO.</u> | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|---|-------------------------------------|--------------------------|------------------|------------------------|--------------------|----------------|-----------------------|--------------------------|
| 3809 | Calibration std HexChrome 1.0PPM | WP109236 | 08/14/2024 | 08/15/2024 | Rubina Mughal | None | WETCHEM_PI PETTE_3 | Mohan Bera 08/16/2024 |
| FROM 98.00000ml of W3112 + 2.00000ml of WP108658 = Final Quantity: 100.000 ml <div></div> | | | | | | | | |

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CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 22L2862006 | 02/01/2025 | 08/01/2024 / Rajesh | 07/19/2024 / Rajesh | E3772 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 22D0862014 | 01/20/2025 | 08/22/2022 / mohan | 04/26/2022 / mohan | M5211 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 10/24/2024 | 10/24/2019 / apatel | 10/24/2019 / apatel | W2606 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--|---------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | AA13450-36 / Potassium Dichromate, 500g(NEW) | T15F019 | 01/24/2030 | 01/24/2020 / apatel | 01/24/2020 / apatel | W2651 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|-------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | 31390 / 1,5-Diphenylcarbazine | MKCR6636 | 12/09/2027 | 12/09/2022 / lwona | 12/09/2022 / lwona | W2979 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / lwona | 07/03/2024 / lwona | W3112 |

Product No.: 13450
Product: Potassium dichromate, ACS, 99.0% min
Lot No.: T15F019

| Test | Limits | Results |
|------------------|---------------------|---------------------|
| Appearance | Orange-red crystals | Orange-red crystals |
| Identification | To Pass | Passes |
| Purity | 99.0 % min | 99.67 % |
| Insoluble matter | 0.005 % max | 0.004 % |
| Loss on drying | 0.05 % max | 0.03 % |
| Chloride | 0.001 % max | < 0.001 % |
| Sulfate | 0.005 % max | < 0.005 % |
| Iron | 0.001 % max | < 0.001 % |
| Calcium | 0.003 % max | 0.0012 % |
| Sodium | 0.02 % max | 0.0047 % |

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This document has been electronically generated and does not require a signature.

This is to certify that units of the lot number above were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the purchaser, formulator or those performing further manufacturing to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The above information is the actual analytical results obtained.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|---|---------------|-------------|
| Assay ((CH ₃) ₂ CO) (by GC, corrected for water) | ≥ 99.4 % | 99.7 % |
| Color (APHA) | ≤ 10 | 5 |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Substances Reducing Permanganate | Passes Test | Passes Test |
| Titration Acid (μeq/g) | ≤ 0.3 | 0.1 |
| Titration Base (μeq/g) | ≤ 0.6 | < 0.1 |
| Water (H ₂ O) | ≤ 0.5 % | 0.3 % |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL) | ≤ 5 | 1 |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL) | ≤ 10 | 4 |

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 7/19/22

E3772


Jamie Ethier
Vice President Global Quality

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 22D0862014

Manufactured Date: 2022-02-23

Retest Date: 2027-02-22

Revision No.: 0

Certificate of Analysis

| Test | Specification | Result |
|--|---------------|-------------|
| ACS – Assay (H ₂ SO ₄) | 95.0 – 98.0 % | 96.5 % |
| Appearance | Passes Test | Passes Test |
| ACS – Color (APHA) | ≤ 10 | 5 |
| ACS – Residue after Ignition | ≤ 3 ppm | < 1 ppm |
| ACS – Substances Reducing Permanganate (as SO ₂) | ≤ 2 ppm | < 2 ppm |
| Ammonium (NH ₄) | ≤ 1 ppm | < 1 ppm |
| Chloride (Cl) | ≤ 0.1 ppm | < 0.1 ppm |
| Nitrate (NO ₃) | ≤ 0.2 ppm | < 0.1 ppm |
| Phosphate (PO ₄) | ≤ 0.5 ppm | < 0.1 ppm |
| Trace Impurities – Aluminum (Al) | ≤ 30.0 ppb | 1.7 ppb |
| Arsenic and Antimony (as As) | ≤ 4.0 ppb | < 2.0 ppb |
| Trace Impurities – Boron (B) | ≤ 10.0 ppb | < 5.0 ppb |
| Trace Impurities – Cadmium (Cd) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Chromium (Cr) | ≤ 6.0 ppb | < 0.4 ppb |
| Trace Impurities – Cobalt (Co) | ≤ 0.5 ppb | < 0.3 ppb |
| Trace Impurities – Copper (Cu) | ≤ 1.0 ppb | < 0.1 ppb |
| Trace Impurities – Gold (Au) | ≤ 10.0 ppb | < 0.2 ppb |
| Heavy Metals (as Pb) | ≤ 500.0 ppb | < 100.0 ppb |
| Trace Impurities – Iron (Fe) | ≤ 50.0 ppb | 2.0 ppb |
| Trace Impurities – Lead (Pb) | ≤ 0.5 ppb | < 0.5 ppb |
| Trace Impurities – Magnesium (Mg) | ≤ 7.0 ppb | 0.6 ppb |
| Trace Impurities – Manganese (Mn) | ≤ 1.0 ppb | < 0.4 ppb |
| Trace Impurities – Mercury (Hg) | ≤ 0.5 ppb | < 0.1 ppb |
| Trace Impurities – Nickel (Ni) | ≤ 2.0 ppb | < 0.3 ppb |
| Trace Impurities – Potassium (K) | ≤ 500.0 ppb | < 2.0 ppb |
| Trace Impurities – Selenium (Se) | ≤ 50.0 ppb | 12.1 ppb |
| Trace Impurities – Silicon (Si) | ≤ 100.0 ppb | 4.4 ppb |
| Trace Impurities – Silver (Ag) | ≤ 1.0 ppb | < 0.3 ppb |

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

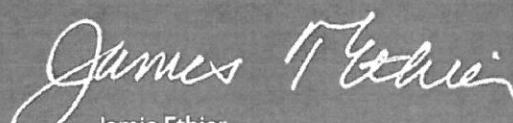


Material No.: 9673-33
Batch No.: 22D0862014

| Test | Specification | Result |
|-----------------------------------|------------------|-----------|
| Trace Impurities – Sodium (Na) | ≤ 500.0 ppb | 6.2 ppb |
| Trace Impurities – Strontium (Sr) | ≤ 5.0 ppb | < 0.2 ppb |
| Trace Impurities – Tin (Sn) | ≤ 5.0 ppb | < 0.8 ppb |
| Trace Impurities – Zinc (Zn) | ≤ 5.0 ppb | 0.6 ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

W 2979

Rec: 12/09/22

exp. 12/09/27

Product Name:

1,5-Diphenylcarbazine - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

C₁₃H₁₄N₄O

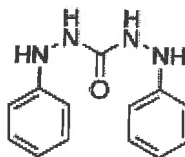
Formula Weight:

242.28 g/mol


Quality Release Date:

02 JUN 2022

Certificate of Analysis



| Test | Specification | Result |
|--|---------------------------|----------|
| Appearance (Color) | Conforms to Requirements | Pink |
| Off-White to Pink, Light Purple or Tan | | |
| Appearance (Form) | Powder or Chunks | Powder |
| Melting Point | 173.0 - 176.0 °C | 173.0 °C |
| Infrared Spectrum | Conforms to Structure | Conforms |
| Residue on ignition (Ash) | ≤ 0.05 % | 0.01 % |
| 15 minutes, 800 Degrees Celsius | | |
| Solubility | Pass | Pass |
| Sensitivity Test | Pass | Pass |
| Meets ACS Requirements | Current ACS Specification | Conforms |



Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





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www.chemtech.net

CHEMTECH PROJECT NO. **P3609**
QUOTE NO.
COC Number **2041350**

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Jacobs**
ADDRESS: **412 Mt Kimple Ave Suite 4100**
CITY **Morrisstown** STATE: **NJ** ZIP: **07960**
ATTENTION: **John Yufank**
PHONE: **(281) 414-1719** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **STC PTC**
PROJECT NO.: **D3779922** LOCATION: **Princeton Junction**
PROJECT MANAGER: **Mary Murphy**
e-mail: **Mary.Murphy@Jacobs.com**
PHONE: **(201) 936-0586** FAX:

CLIENT BILLING INFORMATION

BILL TO: **Mary Murphy** PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **Standard TAT** DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1 VOCs 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
2 SVOCs 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
3 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
4 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
5 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
6 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
7 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
8 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000
9 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000 5.000

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE | | SAMPLE COLLECTION | | # OF BOTTLES | PRESERVATIVES | | | | | | | | | COMMENTS | |
|--------------------------|----------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|-----|---|--|--|--|--|--|-------------------------|---------|
| | | | COMP | GRAB | DATE | TIME | | A/E | E | B/E | E | | | | | | ← Specify Preservatives | |
| 1. | 915-J-WS-081424 | WS | | X | 8-14-24 | 1025 | 8 | 2 | 4 | 1 | 1 | | | | | | A-HCl | D-NaOH |
| 2. | 920-J-WS-081424 | WS | | X | 8-14-24 | 1120 | 8 | 2 | 4 | 1 | 1 | | | | | | B-HNO3 | E-ICE |
| 3. | TB-01-081424 | DI | | X | 8-14-24 | 1125 | 1 | 1 | | | | | | | | | C-H2SO4 | F-OTHER |
| 4. | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| | | | |
|---|--------------------------------|---------------------------------|---|
| RELINQUISHED BY SAMPLER: 1. [Signature] | DATE/TIME: 8-14-24 1227 | RECEIVED BY: [Signature] | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input checked="" type="checkbox"/> COOLER TEMP 2.9°C |
| RELINQUISHED BY SAMPLER: 2. [Signature] | DATE/TIME: | RECEIVED BY: | Comments: See attached table for required analytes list of ECOs VOCs, ECOs SVOCs, and ECOs metals (CA) 2 L of extra volume for SVOCs + PAH analysis |
| RELINQUISHED BY SAMPLER: 3. [Signature] | DATE/TIME: 8-14-2024 | RECEIVED BY: [Signature] | |

Page **1** of **1** CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling Shipment Complete
☐ YES ☐ NO

Laboratory Certification

| Certified By | License No. |
|----------------------|------------------|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (L-A-B) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255423 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |

LOGIN REPORT/SAMPLE TRANSFER

| | | | |
|---|--------|--|--|
| Order ID : P3609 | JACO05 | Order Date : 8/14/2024 12:48:00 PM | Project Mgr : Yazmeen |
| Client Name : JACOBS Engineering Grou | | Project Name : Former Schlumberger Site I | Report Type : Level 4 |
| Client Contact : Mary I. Murphy | | Receive DateTime : 8/14/2024 2:15:00 PM | EDD Type : CH2MHILL |
| Invoice Name : JACOBS Engineering Grou | | Purchase Order : | Hard Copy Date : |
| Invoice Contact : Mary I. Murphy | | | Date Signoff : 8/14/2024 4:40:21 PM |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|----------|-----------------|--------|-------------|-------------|--------------|------------|----------|--------------|-----------|
| P3609-01 | 915-J-WS-081424 | Water | 08/14/2024 | 10:25 | | | | | |
| | | | | | VOCMS Group6 | | 8260-Low | 10 Bus. Days | |
| P3609-02 | 920-J-WS-081424 | Water | 08/14/2024 | 11:20 | | | | | |
| | | | | | VOCMS Group6 | | 8260-Low | 10 Bus. Days | |
| P3609-03 | TB-01-081424 | Water | 08/14/2024 | 11:25 | | | | | |
| | | | | | VOCMS Group6 | | 8260-Low | 10 Bus. Days | |


Relinquished By :

Date / Time :


8/14/24

Received By :

Date / Time :


8/14/24

Storage Area : VOA Refridgerator Room