

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: P3440

ATTENTION: Mary I. Murphy





46

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Cover Page

Order ID: P3440

Project ID: Former Schlumberger Site Princeton NJ

Client: JACOBS Engineering Group, Inc.

Lab Sample Number

Client Sample Number

P3440-01	923-K1-WS-080124
P3440-02	923-K1-WS-080124MS
P3440-03	923-K1-WS-080124MSD
P3440-04	922-K1-WS-080124
P3440-05	TB-01-080124

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: 8/9/2024

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

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3440

Test Name: Hexavalent Chromium

A. Number of Samples and Date of Receipt:

5 Water samples were received on 08/01/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Mercury, Metals Group4, SVOC-SIMGroup1, 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		
Dignature		

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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 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

QA Control # A3040961

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Sample Analysis Out Of Hold Time

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEN	MTECH PROJECT NUMBER: P3440	MATRIX: Water		
METI	HOD: 7196A			
1.	Blank Contamination - If yes, list compounds and concentrations	NA s in each blank:	NO ✓	YES
2.	Matrix Spike Duplicate Recoveries Met Criteria			\checkmark
	If not met, list those compounds and their recoveries which fall crange.	outside the acceptable		
	The Blank Spike met requirements for all samples.			
3.	Sample Duplicate Analysis Met QC Criteria			\checkmark
	If not met, list those compounds and their recoveries which fall crange.	outside the acceptable		
4.	Digestion Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
ADDIT	TIONAL COMMENTS:			
QA RE	VIEW	Date		

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3440

rroject#: P3440	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> <u>*</u> <u>*</u> <u>*</u>
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	<u>√</u>
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	\frac{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
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?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	<u> </u>
1st Level QA Review Signature: SOHIL JODHANI Date:	08/09/2024
2nd Level QA Review Signature: Date:	

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LAB CHRONICLE

OrderID: P3440 OrderDate: 8/1/2024 12:28:00 PM

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

Contact: Mary I. Murphy Location: D31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3440-01	923-K1-WS-080124	WATER			08/01/24 09:15			08/01/24
			Hexavalent Chromium	7196A	09:13		08/01/24 15:34	
P3440-04	922-K1-WS-080124	WATER			08/01/24 11:10			08/01/24
			Hexavalent Chromium	7196A			08/01/24 15:38	

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SAMPLE DATA

1.



P3440-01

Lab Sample ID:

Chromium

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Matrix:

WATER

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24 09:15

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 923-K1-WS-080124 SDG No.: P3440

% Solid:

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Dissolved Hexavalent	0.0030 U	1 0.0030	0.010	mg/L		08/01/24 15:34	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

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P3440-04

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Matrix:

WATER

Report of Analysis

Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24 11:10

Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24

Client Sample ID: 922-K1-WS-080124 SDG No.: P3440

% Solid: 0

Parameter	Conc. Qua.	DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Dissolved Hexavalent	0.0030 II	1 0.0030	0.010	mg/L		08/01/24 15:38	7196A

Chromium

Lab Sample ID:

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

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QC RESULT SUMMARY



 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone \; : \; 908 \; 789 \; 8900, \\$

Fax: 908 789 8922

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ RunNo.: LB131838

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV Chromium	mg/L	0.493	0.5	99	90-110	08/01/2024
Sample ID:	CCV1 Chromium	mg/L	0.486	0.5	97	90-110	08/01/2024
Sample ID: Hexavalent	CCV2 Chromium	mg/L	0.490	0.5	98	90-110	08/01/2024

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Initial and Continuing Calibration Blank Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	P3440	
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Project: Former Schlumberger Site Princeton NJ RunNo.: LB131838

			Acceptance	Conc	MDL		Analysis
Analyte	Units	Result	Limits	Qual	MIDL	RDL	Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/01/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/01/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	08/01/2024

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Preparation Blank Summary

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB1318 Hexavalent Chromium		< 0.0050	0.0050	Ū	0.003	0.01	08/01/2024

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Fax: 908 789 8922

Matrix Spike Summary

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ **Sample ID:** P3440-01

Client ID: 923-K1-WS-080124MS Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Hexavalent Chromium	mg/L	90-111	0.93		0.0030	U	1.0	2	93		08/01/2024

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Fax: 908 789 8922

Matrix Spike Summary

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ **Sample ID:** P3440-01

Client ID: 923-K1-WS-080124MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Hexavalent Chromium	mg/L	90-111	0.92		0.0030	U	1.0	2	92		08/01/2024

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

Duplicate Sample Summary

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ **Sample ID:** P3440-01

Client ID: 923-K1-WS-080124DUP Percent Solids for Spike Sample: 0

		Acceptance	Sample	Conc.	Duplicate	Conc.	Dilution	RPD/		Analysis
Analyte	Units	Limit	Result	Qualifie	Result	Qualifie	Factor	AD	Qual	Date
Hexavalent Chromium	mg/L	+/-20	0.0030	U	0.0030	U	1	0		08/01/2024

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Duplicate Sample Summary

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ **Sample ID:** P3440-01

Client ID: 923-K1-WS-080124MSD Percent Solids for Spike Sample: 0

		Acceptance	Sample	Conc.	Duplicate	Conc.	Dilution	RPD/		Analysis	
Analyte	Units	Limit	Result	Qualifie	Result	Qualifie	Factor	AD	Qual	Date	
Hexavalent Chromium	mg/L	+/-20	0.93		0.92		2	0.86		08/01/2024	

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Laboratory Control Sample Summary

Client: JACOBS Engineering Group, Inc. SDG No.: P3440

Project: Former Schlumberger Site Princeton NJ Run No.: LB131838

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB131838BS								
Heyayalent Chromium	mg/L	0.5	0.49		98	1	90-111	08/01/2024

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RAW DATA



Analytical Summary Report

Reviewed By:Sohil On:8/2/2024 11:58:59 AM Inst Id :SPECTROPHOTOME

Analysis Method: 7196A ANALYST: Iwona

Parameter: Hexavalent Chromium SUPERVISOR REVIEW BY: Sohil

Run Number: LB131838 pH Meter ID: ph Meter-1

Reagent/Standard	Lot/Log #
Calibration Std. hexchrome 0.1 ppm	WP108953
Calibration Std. hexchrome 0.05 ppm	WP108952
calibration std. hexchrome 0.01 ppm	WP108950
calibration std. hexchrome 0 ppm	WP108949
hexavalent chromium color reagent	WP108907
5N sulfuric acid	WP107791
Calibration Std Hexachrome 0.025 ppm	WP108951
Hexavalent Chromium ICV-LCS Std	WP108957
Calibration and CCV std HexChrome 0.5PPM	WP108954
Calibration std HexChrome 1.0PPM	WP108955

Intercept: 0.0005 Slope: 0.7827 Regression: 0.9999993

		True Value		Initial Vol	Final Vol	pН	рН	Absorb.at	540nm	Absorbance	Result	%D	Anal	Anal
Seq	Lab ID	(mg/1)	DF	(ml)	(ml)	HN03	H2SO4	Backgrnd	Color	Difference	(mg/L)		Date	Time
1	CAL1	0	1	100	100		2.09	0.000	0.000	0.000	-0.00		08/01/2024	15:20
2	CAL2	0.01	1	100	100		2.41	0.000	0.008	0.008	0.009	-10	08/01/2024	15:21
3	CAL3	0.025	1	100	100		1.89	0.000	0.019	0.019	0.023	-8	08/01/2024	15:22
4	CAL4	0.05	1	100	100		1.63	0.000	0.040	0.040	0.050	0	08/01/2024	15:23
5	CAL5	0.1	1	100	100		1.88	0.000	0.079	0.079	0.100	0	08/01/2024	15:24
6	CAL6	0.5	1	100	100		1.57	0.000	0.394	0.394	0.502	0.4	08/01/2024	15:25
7	CAL7	1	1	100	100		2.17	0.000	0.782	0.782	0.998	-0.2	08/01/2024	15:26



Analytical Summary Report



Analysis Method: 7196A ANALYST: Iwona

Parameter: Hexavalent Chromium SUPERVISOR REVIEW BY: Sohil

Run Number: LB131838 pH Meter ID:ph Meter-1

		True		Initial	Final			Absorb.a	t.540nm		Intermediate		
Seq	Lab ID	Value	DF	Vol (ml/gm)	Vol (ml)	pH HN03	рН H2SO4	Backgrnd	Color	Absorbance Difference	Result (mg/L)	Anal Date	Anal Time
1	ICV	0.5	1	100	100		1.96	0.000	0.386	0.386	0.493	08/01/2024	15:27
2	ICB		1	100	100		2.06	0.000	0.001	0.001	0.001	08/01/2024	15:28
3	CCV1	0.5	1	100	100		2.25	0.000	0.381	0.381	0.486	08/01/2024	15:29
4	CCB1		1	100	100		1.80	0.000	0.001	0.001	0.001	08/01/2024	15:30
5	RL Check	0.01	1	100	100		1.96	0.000	0.009	0.009	0.011	08/01/2024	15:31
6	LB131838BL		1	100	100		1.91	0.000	0.001	0.001	0.001	08/01/2024	15:32
7	LB131838BS	0.5	1	100	100		2.07	0.000	0.385	0.385	0.491	08/01/2024	15:33
8	P3440-01		1	100	100		2.33	0.004	0.005	0.001	0.001	08/01/2024	15:34
9	P3440-01DU		1	100	100		1.74	0.004	0.004	0.000	-0.001	08/01/2024	15:35
10	P3440-02	1	2	100	100		2.06	0.004	0.369	0.365	0.466	08/01/2024	15:36
11	P3440-03	1	2	100	100		1.83	0.004	0.366	0.362	0.462	08/01/2024	15:37
12	P3440-04		1	100	100		2.07	0.004	0.004	0.000	-0.001	08/01/2024	15:38
13	CCV2	0.5	1	100	100		2.37	0.000	0.384	0.384	0.490	08/01/2024	15:39
14	CCB2		1	100	100		2.15	0.000	0.000	0.000	-0.001	08/01/2024	15:40

LB121838 Department: Wet-Chemistry WORKLIST(Hardcopy Internal Chain) 182290 WorkList ID: HEX-080124-3

Date: 08-01-2024 14:45:47 Collect Date Method 08/01/2024 7196A 08/01/2024 7196A 08/01/2024 7196A 08/01/2024 7196A Raw Sample Storage Location **D31** D31 **D31 D31** JACO05 Customer JACO05 JACO05 JACO05 Ammonium sulfate buffer Ammonium sulfate buffer Ammonium sulfate buffer Ammonium sulfate buffer Preservative Hexavalent Chromium Hexavalent Chromium Hexavalent Chromium Hexavalent Chromium Test Matrix Water Water Water Water 923-K1-WS-080124 922-K1-WS-080124 **Customer Sample** P3440-01MSD P3440-01MS

> P3440-02 P3440-03

P3440-04

P3440-01

7 B Raw Sample Relinquished by: Raw Sample Received by: Date/Time

Reviewed By:Sohil On:8/2/2024 11:58:59 AM Inst Id :SPECTROPHOTOME

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14:50

08/01/24

Date/Time

Raw Sample Relinquished by:

Raw Sample Received by:



Instrument ID:

SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB131838

Review By	lwo	ona	Review On	8/1/2024 4:12:25 PM
Supervise By	Sol	nil	Supervise On	8/2/2024 11:58:59 AM
SubDirectory	LB	131838	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		WP108953,WP108952,	WP108950,WP108949,WP108907,WP	107791,WP108951,WP108957,WP108954,WP108955

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	08/01/24 15:20		Iwona	ок
2	CAL2	CAL2	CAL	08/01/24 15:21		Iwona	ок
3	CAL3	CAL3	CAL	08/01/24 15:22		Iwona	ок
4	CAL4	CAL4	CAL	08/01/24 15:23		Iwona	ок
5	CAL5	CAL5	CAL	08/01/24 15:24		Iwona	ок
6	CAL6	CAL6	CAL	08/01/24 15:25		Iwona	ок
7	CAL7	CAL7	CAL	08/01/24 15:26		Iwona	ок
8	ICV	ICV	ICV	08/01/24 15:27		Iwona	ок
9	ICB	ICB	ICB	08/01/24 15:28		Iwona	ок
10	CCV1	CCV1	CCV	08/01/24 15:29		Iwona	ок
11	CCB1	CCB1	ССВ	08/01/24 15:30		Iwona	ОК
12	RL Check	RL Check	SAM	08/01/24 15:31		Iwona	ок
13	LB131838BL	LB131838BL	MB	08/01/24 15:32		Iwona	ок
14	LB131838BS	LB131838BS	LCS	08/01/24 15:33		Iwona	ОК
15	P3440-01	923-K1-WS-080124	SAM	08/01/24 15:34		lwona	ок
16	P3440-01DUP	923-K1-WS-080124D	DUP	08/01/24 15:35		Iwona	ок
17	P3440-02	P3440-01MS	MS	08/01/24 15:36		Iwona	ок
18	P3440-03	P3440-01MSD	MSD	08/01/24 15:37		lwona	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB131838

Review By	lwona		Review On	8/1/2024 4:12:25 PM
Supervise By	Sohil		Supervise On	8/2/2024 11:58:59 AM
SubDirectory	LB131	838	Test	Hexavalent Chromium
STD. NAME	ST	ΓD REF.#		
ICAL Standard	N//	A		
ICV Standard	N/A	A		
CCV Standard	N/A	A		
ICSA Standard	N/A	A		
CRI Standard	N/A	A		
LCS Standard	N/	A		
Chk Standard	WF	P108953,WP108952,	WP108950,WP108949,WP108907,WP	107791,WP108951,WP108957,WP108954,WP108955

19	P3440-04	922-K1-WS-080124	SAM	08/01/24 15:38	lwona	ок
20	CCV2	CCV2	CCV	08/01/24 15:39	lwona	ок
21	CCB2	CCB2	ССВ	08/01/24 15:40	Iwona	ОК

P3440-GENCHEM **26 of 46**

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Prep Standard - Chemical Standard Summary

Order ID: P3440

Test: Hexavalent Chromium

Prepbatch ID:

Sequence ID/Qc Batch ID: LB131838,

Standard ID:

WP107791, WP108658, WP108659, WP108907, WP108948, WP108949, WP108950, WP108951, WP108952, WP108953, WP108954, WP108955, WP108957, WP108957, WP108957, WP108957, WP108957, WP108957, WP108957, WP108957, WP108957, WP108959, WP10

Chemical ID:

E3769,M5211,W2606,W2651,W2652,W2979,W3112,

P3440-GENCHEM 27 of 46

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
126	5N sulfuric acid	WP107791	05/07/2024	10/24/2024	Niha Farheen	None	None	-
					Shaik			05/07/2024
	440.000001 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Fired Over	tit 4 000 l				

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1993	HEXAVALENTCHROMIUM STOCK	WP108658	07/09/2024	01/09/2025	Rubina Mughal	WETCHEM_S	None	
	STD 1, 50PPM					CALE_5 (WC		07/09/2024
	0.44440	01 £ \\/\0.44	10 5:10		001	SC-5)		

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

P3440-GENCHEM 28 of 46

Aliance TECHNICAL GROUP

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1994		WP108659	07/09/2024	01/09/2025	Rubina Mughal	_		0=10010001
	STD 2, 50PPM		10 5 10			SC-5)		07/09/2024

FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
114	hexavalent chromium color	WP108907	07/30/2024	08/06/2024	Iwona Zarych	WETCHEM_S	None	
	reagent					CALE_5 (WC		08/02/2024

FROM 0.25000gram of W2979 + 50.00000ml of E3769 = Final Quantity: 50.000 ml

P3440-GENCHEM 29 of 46

Aliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

1103 HEX CHROME INTERMEDIATE WP108948 08/01/2024 08/02/2024 Iwona Zarych None WETCHEM_PI	Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
(WC)	1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP108948	08/01/2024	08/02/2024	lwona Zarych	None	PETTE_3	l 08/02/2024

FROM 9.000001111 01 373 112 + 1.000001111 01 374 100050 = Final Quantity. 10.000 111	FROM	9.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 10.000 r	ml
---	------	---	----

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
110	calibration std. hexchrome 0 ppm	WP108949	08/01/2024	08/02/2024	lwona Zarych	None	None	09/02/2024
								08/02/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

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Aliance TECHNICAL GROUP

Fax: 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
109	calibration std. hexchrome 0.01	<u>WP108950</u>	08/01/2024	08/02/2024	Iwona Zarych	None	WETCHEM_P	I
	ppm						PETTE_3	08/02/2024
EDOM	99 80000ml of W3112 + 0 20000ml o	f W/D108048	8 = Final Oua	antity: 100 000	ml		(WC)	

FROM 99.80000ml of W3112 + 0.20000ml of WP108948 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
3800		WP108951	08/01/2024	08/02/2024	Iwona Zarych	None	WETCHEM_P	
	0.025 ppm						PETTE_3 (WC)	08/02/2024

FROM 99.50000ml of W3112 + 0.50000ml of WP108948 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Mohan Bera
108	Calibration Std. hexchrome 0.05	WP108952	08/01/2024	08/02/2024	Iwona Zarych	None	WETCHEM_P	I
	ppm						PETTE_3	08/02/2024
FDOM	00 00000ml of W2112 ± 1 00000ml o	f \\\\D10004	P = Final Oua	ntity: 100 000	ml	-	(WC)	

FROM 99.00000ml of W3112 + 1.00000ml of WP108948 = Final Quantity: 100.000 ml

Recipe <u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera	
107		WP108953	08/01/2024	08/02/2024	Iwona Zarych	None	WETCHEM_P		١
	ppm						PETTE_3 (WC)	08/02/2024	l

FROM 99.80000ml of W3112 + 0.20000ml of WP108658 = Final Quantity: 100.000 ml

P3440-GENCHEM 32 of 46

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera
3808	Calibration and CCV std HexChrome 0.5PPM	<u>WP108954</u>	08/01/2024	08/02/2024	Iwona Zarych	None	WETCHEM_P PETTE 3	l 08/02/2024
							(WC)	

FROM 99.00000ml of W3112 + 1.00000ml of WP108658 = Final Quantity: 100.000 ml

ļ	Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Mohan Bera	
	3809	Calibration std HexChrome 1.0PPM	WP108955	08/01/2024	08/02/2024	Iwona Zarych	None	WETCHEM_P PETTE 3	l 08/02/2024	
H	l							(WC)		۱

FROM 98.00000ml of W3112 + 2.00000ml of WP108658 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID 3804	NAME Hexavalent Chromium ICV-LCS Std	<u>NO.</u> WP108957	Prep Date 08/01/2024	Expiration Date 08/02/2024	Prepared By Iwona Zarych	<u>ScaleID</u> None	PipetteID WETCHEM_P PETTE_3	Supervised By Mohan Bera 08/02/2024
FROM	99.00000ml of W3112 + 1.00000ml o	f WP10865	9 = Final Qua	intity: 100.000	ml		(WC)	

P3440-GENCHEM **34 of 46**



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)	23H1462005	01/12/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3769
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 /	Received Date /	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.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	31390 / 1,5-Diphenylcarbazide	MKCR6636	12/09/2027	12/09/2022 / Iwona	12/09/2022 / Iwona	W2979

P3440-GENCHEM **35 of 46**



CHEMICAL RECEIPT LOG BOOK

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 / Iwona	07/03/2024 / lwona	W3112

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Certificate of Analysis

Product No.: 13450

Product: Potassium dichromate, ACS, 99.0% min

Lot No.: T15F019

Test	Limits	Results
Appearance Identification Purity	Orange-red crystals To Pass 99.0 % min	Orange-red crystals Passes 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.

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Certificate of Analysis Page 1 of 1



Certificate of Analysis

1 Reagent Lane Fair Lawn, NJ 07410 201.796.7100 tel 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below 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 final formulator and end user 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 following information is the actual analytical results obtained.

Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raprocessing aids, or any other material that	•	
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Derisa Bailey- Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

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Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis





Material No.: 9254-03

Batch No.: 23H1462005

Manufactured Date: 2023-07-26 Expiration Date: 2026-07-25

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	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (μeq/g)	≤ 0.3	0.1
Titrable Base (μeq/g)	≤ 0.6	< 0.1
Water (H₂O)	≤ 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	1

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

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC

Reed. by RP on 7/2124

E 3769

Ken Koehnlein

Sr. Manager, Quality Assurance

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P3440-GENCHEM

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





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 (H2SO4)	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 SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	< 1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO3)	≤ 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)	\leq 50.0 ppb	12.1 ppb
Trace Impurities – Silicon (Si)	\leq 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)	\leq 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

W 2979

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

lec: 12/08/22

exp. 12/08/27

Certificate of Analysis

1,5-Diphenylcarbazide - ACS reagent

Product Number:

259225

Batch Number:

MKCR6636

Brand:

SIAL

CAS Number:

140-22-7

MDL Number:

MFCD00003013

Formula:

Formula Weight:

C13H14N4O

242.28 g/mol

Quality Release Date:

02 JUN 2022

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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 ℃	173.0 ℃			
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.



SHIPPING DOCUMENTS

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P3440-GENCHEM



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 • Fax (908) 789-8922 www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number 20/1306

P. L. S. A. 18.	CLIENT INFORMATION	1000		CLIENT	PROJECTI	NEORM	ATION			-			CLIE			TOUG	
	. REPORT TO BE SENT TO:	1		OLILIVI I	TOOLOT	III ORIVI	ATION							200	ING INF	ORMATION	
COMPANY:		PROJE	CT NA	ME: Stc	PTC					BILL	TO: K	lacy	Murp	hy		PO#:	
ADDRESS:4	12 Mt Kemble Ave Suik 4/100	PROJEC	T NO.:	0377997	Z LOC	ATION:	Prince	ton J	whon			- 1:		/			
CITY Mon	VISTORY STATE: NJ ZIP: 07960			AGER: N						CITY					STA	TE:	ZIP:
ATTENTION:	John Yntank	e-mail:	Mary	Morph	ya Jaco	15.00	m			ATTE	NTION:				PHO	DNE:	
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CHEMTECH	PROJECT		SAMPL TYPE		MPLE ECTION	TLES	A/	1	0/		SERVA	TIVES					MMENTS Preservatives
SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP		TIME	OF BOTTLES	A/E	E	B/E	E	_					A-HCI B-HN03	D-NaOH E-ICE
1.	923-K1-WS-23+080124	ws	_	8/1/24	0915	18'	6	6	3	3	5	6	7	8	9	MS/MS	F-OTHER
2.	922 - KI - WS -080/24	145		8/1/24	110	6	2	2	1	1						11.77.136	/
3.	18-61-680124	DI	X	8/1/24	1200		1										
4.																	
5.																	
6.																	
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8.																	
9.																	
10.	CAMPLE CUSTODY MUST BE DOO		DEL C:				L										
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RELINQUISHED B	8124 3.	011 0057755		Page			CLIENT CHEMT	ECH:	Hand D		☐ Fie	ther ld Samp	oling			Shipment YES 44 of 46	□ NO



Laboratory Certification

Certified By	License No.						
CAS EPA CLP Contract	68HERH20D0011						
Connecticut	PH-0830						
DOD ELAP (L-A-B)	L2219						
Maine	2022022						
Maryland	296						
New Hampshire	255423						
New Jersey	20012						
New York	11376						
Pennsylvania	68-00548						
Soil Permit	P330-21-00137						
Texas	T104704488						

QA Control Code: A2070148 P3440-GENCHEM

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

Fax: 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID: P3440

JACO05

Order Date: 8/1/2024 12:28:00 PM

Project Mgr:

Client Name: JACOBS Engineering Grou

Project Name: Former Schlumberger Site I

Report Type: Level 4

Client Contact: Mary I. Murphy

Receive DateTime: 8/1/2024 2:00:00 PM

EDD Type: CH2MHILL

Invoice Name: JACOBS Engineering Grou Invoice Contact: Mary I. Murphy

Purchase Order:

Hard Copy Date:

Date Signoff:

FAX DATE DUE DATES
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Relinguished By:

Date / Time:

Date / Time:

14.20 Rett 4

Storage Area: VOA Refridgerator Room

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