

# ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS GENERAL CHEMISTRY METALS SEMI-VOLATILE ORGANICS

## **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 : P3451 ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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# DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name :	Alliance Technical Group LLC	Client :	JACOBS Engineering Group, Inc.
Project Location :	Princeton, NJ	Project Number :	D3779922
Laboratory Sample ID(	s) : <u>P3451</u>	Sampling Date(s) :	08/01/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) 6010D,7196A,7470A,8260D,8270-Modified,8270E

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the NJDEP Data of Known Quality performance standards?	V	Yes		No	
1A	Were the method specified handling, preservation, and holding time requirements met?	$\mathbf{\nabla}$	Yes		No	
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)		Yes		No	✓ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	$\Box$	Yes		No	
3	Were samples received at an appropriate temperature (4±2° C)?	V	Yes		No	<b>D</b> N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?		Yes	$\checkmark$	No	
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt?	V	Yes		No	
	b)Were these reporting limits met?	$\square$	Yes		No	□ N/A
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the DKQP documents and/or site-specific QAPP?	V	Yes		No	
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?		Yes	$\checkmark$	No	

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information should be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Data of Known Quality."

1



# **Cover Page**

- **Order ID :** P3451
- Project ID : Former Schlumberger Site Princeton NJ
  - **Client :** JACOBS Engineering Group, Inc.

#### Lab Sample Number

**Client Sample Number** 

P3451-01 P3451-02 921-J-WS-080124 TB-03-080124

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: 10/14/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



# CASE NARRATIVE

JACOBS Engineering Group, Inc. Project Name: Former Schlumberger Site Princeton NJ Project # N/A Chemtech Project # P3451 Test Name: VOCMS Group6

#### A. Number of Samples and Date of Receipt:

2 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, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for VOCMS Group6.

#### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.The analysis of VOCMS Group6 was based on method 8260D.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria.

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

#### **E. Additional Comments:**

This data package has been revised due to parameter list changed Samples for MS/MSD for VOC analysis were not provided with this set of samples therefore lab used from another project.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.



#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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\_\_\_\_\_



# CASE NARRATIVE

JACOBS Engineering Group, Inc. Project Name: Former Schlumberger Site Princeton NJ Project # N/A Chemtech Project # P3451 Test Name: SVOCMS Group3

#### A. Number of Samples and Date of Receipt:

2 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, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group3.

#### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA\_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3510.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for 923-K1-WS-080124MSD [Terphenyl-d14 - 134%] this compound did not meet the NJDKQP criteria but met the inhouse criteria.

The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples.

The MS {P3440-02MS} with File ID: BN033232.D recoveries met the requirements for all compounds except for 2-Methylnaphthalene[68%], Phenanthrene[136%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P3440-03MSD} with File ID: BN033233.D recoveries met the acceptable requirements except for Phenanthrene[152%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria . The Blank Spike met requirements for all samples .



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

The % RSD is greater than 20% in the Initial Calibration method (Method 8270Sim-BN080524.M) for 1,4-Dioxane, this compound is passing on Linear Regression.

The Continuous Calibration File ID BN033228.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and and 2,4,6-Tribromophenol, failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

#### **E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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\_\_\_\_\_





JACOBS Engineering Group, Inc. Project Name: Former Schlumberger Site Princeton NJ Project # N/A Chemtech Project # P3451 Test Name: SVOCMS Group6

#### A. Number of Samples and Date of Receipt:

2 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, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for SVOCMS Group6.

#### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA\_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOCMS Group6 was based on method 8270E and extraction was done based on method 3510.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis. The Surrogate recoveries met the acceptable criteria. The Internal Standards Areas met the acceptable requirements. The Retention Times were acceptable for all samples.

The MS {P3440-02MS} with File ID: BF138838.D recoveries met the requirements for all compounds except for Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {P3440-03MSD} with File ID: BF138839.D recoveries met the acceptable requirements except for Benzaldehyde[0%] this compound did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD met criteria . The Blank Spike met requirements for all samples . The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements .

The Continuous Calibration File ID BF138834.D met the requirements except for Pentachlorophenol but no positive hit in associated sample therefore no corrective action taken.



The Tuning criteria met requirements.

#### **E. Additional Comments:**

This data package has been revised due to parameter list changed.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

#### **F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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\_\_\_\_\_



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 # P3451 Test Name: Metals Group4,Mercury

#### A. Number of Samples and Date of Receipt:

2 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, SVOCMS Group3, SVOCMS Group6 and VOCMS Group6. This data package contains results for Metals Group4, Mercury.

#### **C. Analytical Techniques:**

The analysis of Metals Group4 was based on method 6020B, digestion based on method 3010 (waters). The analysis and digestion of Mercury was based on method 7470A.

#### **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 (923-K1-WS-080124MS) analysis met criteria for all samples except for Silver due to Chemical interference during Digestion Process. The Matrix Spike Duplicate (923-K1-WS-080124MSD) analysis met criteria for all samples except for Silver due to Chemical interference during Digestion Process. 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:**

This Data Package has been revised due to Parameter List Change.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

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\_\_\_\_\_





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 # P3451 Test Name: Hexavalent Chromium

#### A. Number of Samples and Date of Receipt:

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

#### **B.** Parameters:

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, 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_	

2.5



# DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).					
U	Indicates the analyte was analyzed for, but not detected.					
ND	Indicates the analyte was analyzed for, but not detected					
Ε	Indicates the reported value is estimated because of the presence of interference					
Μ	Indicates Duplicate injection precision not met.					
Ν	Indicates the spiked sample recovery is not within control limits.					
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).					
*	Indicates that the duplicate analysis is not within control limits.					
+	Indicates the correlation coefficient for the MSA is less than 0.995.					
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.					
M OR	<ul> <li>Method qualifiers</li> <li>"P" for ICP instrument</li> <li>"PM" for ICP when Microwave Digestion is used</li> <li>"CV" for Manual Cold Vapor AA</li> <li>"AV" for automated Cold Vapor AA</li> <li>"CA" for MIDI-Distillation Spectrophotometric</li> <li>"AS" for Semi – Automated Spectrophotometric</li> <li>"C" for Manual Spectrophotometric</li> <li>"T" for Titrimetric</li> <li>"NR" for analyte not required to be analyzed</li> <li>Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.</li> </ul>					
Q	Indicates the LCS did not meet the control limits requirements					
Н	Sample Analysis Out Of Hold Time					



# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value						
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.						
ND	Indicates the analyte was analyzed for, but not detected						
J	<ul> <li>Indicates an estimated value. This flag is used:</li> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ul>						
В	similar situation arise on any organic parameter i.e. Pest, PCB and others. ndicates the analyte was found in the blank as well as the sample report as 12 B".						
Е	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.						
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.						
Р	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".						
Ν	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.						
Α	This flag indicates that a Tentatively Identified Compound is a suspected aldol- condensation product.						
Q	Indicates the LCS did not meet the control limits requirements						

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#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: P3451

Completed

For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
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: 10/14/2024



#### Hit Summary Sheet SW-846

SDG No.:	No.: P3451						
Client:	JACOBS Engineer	ring Group, In	2.				
Sample ID	Client ID	Matrix	Parameter	Concentration	C MDL	RDL	Units
<b>Client ID:</b> P3451-01	<b>921-J-WS-080124</b> 921-J-WS-080124	Water	Acetone	10.7	1.40	5.00	ug/L
P3451-01	921-J-WS-080124	Water	Toluene	2.00	0.18	1.00	ug/L
			Total Voc :	12.7	,		
			<b>Total Concentration:</b>	12.7			

5

В

C D







A B C D



Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	921-J-WS-080124	SDG No.:	P3451
Lab Sample ID:	P3451-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch: VN083283.D	Dilution: 1	Prep Date		Date Analyzed 08/14/24 07:16	Prep Batch ID VN081324	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	10.7		1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L

U

U

U

U

U

U

U

U

U

U

U

U

U

U

0.25

0.25

0.26

0.19

0.19

0.16

0.24

0.32

0.24

0.18

0.21

0.18

0.25

0.13

0.16

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

ug/L

0.25

0.25

0.26

0.19

0.19

0.16

0.24

0.32

0.24

2.00

0.21

0.18

0.25

0.13

0.16

56-23-5

156-59-2

67-66-3

71-55-6

71-43-2

107-06-2

79-01-6

75-27-4

108-88-3

79-00-5

124-48-1

127-18-4

108-90-7

100-41-4

108-87-2

Carbon Tetrachloride

Chloroform

Benzene

Toluene

cis-1,2-Dichloroethene

1,1,1-Trichloroethane

Methylcyclohexane

1,2-Dichloroethane

Bromodichloromethane

1,1,2-Trichloroethane

Tetrachloroethene

Chlorobenzene

Ethyl Benzene

Dibromochloromethane

Trichloroethene



Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	921-J-WS-080124	SDG No.:	P3451
Lab Sample ID:	P3451-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN083283.D	1			08/14/24 07:16	VN081324	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.9		70 (77) - 130 (121)	116%	SPK: 50
INTERNAL STAN	DARDS					
363-72-4	Pentafluorobenzene	131000	8.224			
540-36-3	1,4-Difluorobenzene	258000	9.1			
3114-55-4	Chlorobenzene-d5	270000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.794			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products

С



Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	TB-03-080124	SDG No.:	P3451
Lab Sample ID:	P3451-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN083284.D	1			08/14/24 07:40 VN081324		
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L

5



Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24
Client Sample ID:	TB-03-080124	SDG No.:	P3451
Lab Sample ID:	P3451-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group6
GC Column:	RXI-624 ID: 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch ID	
VN083284.D	1			08/14/24 07:40	VN081324	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
1330-20-7	Total Xylenes	0.45	U	0.45	3.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	53.3		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STAN	DARDS					
363-72-4	Pentafluorobenzene	139000	8.224			
540-36-3	1,4-Difluorobenzene	272000	9.1			
3114-55-4	Chlorobenzene-d5	277000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.794			

U = Not Detected

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



B C

D

# LAB CHRONICLE

OrderID: Client: Contact:	JACOBS Engineering Group, Inc.			OrderDate: Project: Location:	8/1/2024 4:38:0 Former Schlum D31,VOA Ref. #	berger Site Prin	nceton NJ	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water		0260 1	08/01/24		00/14/24	08/01/24
P3451-02	TB-03-080124	Water	VOCMS Group6	8260-Low 8260-Low	08/01/24		08/14/24	08/01/24



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#### Hit Summary Sheet SW-846

**SDG No.:** P3451

**Client:** 

JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	С	MDL	RDL	Units
Client ID :	921-J-WS-080124							
P3451-01	921-J-WS-080124	WATER	Phenanthrene	0.050	J	0.02	0.1	ug/L
P3451-01	921-J-WS-080124	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3451-01	921-J-WS-080124	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3451-01	921-J-WS-080124	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.1	ug/L
			Total Svoc :		0.	18		
			<b>Total Concentration:</b>		0	.18		

6

B C

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Revised

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A B C D



		Report	t of Anal	ysis		
Client:	JACOBS Engineerir	ng Group, Inc.		Date Collected	d: 08/01/24	
Project:	Former Schlumberge	er Site Princeton NJ		Date Received	1: 08/01/24	
Client Sample ID	921-J-WS-080124			SDG No.:	P3451	
Lab Sample ID:	P3451-01			Matrix:	Water	
-						
Analytical Metho	od: SW8270SIM			% Solid:	0	
Sample Wt/Vol:	980 Units:	mL		Final Vol:	1000	uL
Soil Aliquot Vol:		uL		Test:	SVOCM	S Group3
Extraction Type :		Decan	ted : N	Level :	LOW	
Injection Volume		GPC Factor :	1.0	GPC Cleanup	: N	PH :
-		or e raciór .	1.0	Of C Cleanup	. IN	111.
Prep Method :	SW3510C					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch I	D
BN033235.D	1	08/02/24 09	0:25	08/03/24 12:48	PB162464	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS	NT 14 1	0.000	TT	0.020	0.10	/*
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8 83-32-9	Acenaphthylene Acenaphthene	0.020 0.020	U U	0.020 0.020	0.10 0.10	ug/L ug/L
83-32-9 86-73-7	Fluorene	0.020	U U	0.020	0.10	ug/L ug/L
85-01-8	Phenanthrene	0.020	J	0.020	0.10	ug/L ug/L
120-12-7	Anthracene	0.030	J U	0.020	0.10	ug/L ug/L
206-44-0	Fluoranthene	0.060	J	0.020	0.10	ug/L
129-00-0	Pyrene	0.040	J	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	J U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	J	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.25		30 (30) - 150 (150)	63%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 (30) - 150 (150)	79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		30 (11) - 130 (175)	70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		30 (10) - 130 (175)	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (54) - 130 (171)	98%	SPK: 0.4
INTERNAL STANI			<b>_ -</b> · · ·			
3855-82-1	1,4-Dichlorobenzene-d4	2720	7.546			
1146-65-2	Naphthalene-d8	9390	10.276			
15067-26-2	Acenaphthene-d10	4760	14.137			

1517-22-2

Phenanthrene-d10

26 of 44

9240

16.908



6

С

		Repor	rt of Analy	vsis		
Client:	JACOBS Engined	ering Group, Inc.		Date Collected:	08/01/24	
Project:	Former Schlumbe	erger Site Princeton N	1J	Date Received:	08/01/24	
Client Sample ID:	921-J-WS-080124	4		SDG No.:	P3451	
Lab Sample ID:	P3451-01			Matrix:	Water	
Analytical Method	: SW8270SIM			% Solid:	0	
Sample Wt/Vol:	980 Units:	: mL		Final Vol:	1000	uL
Soil Aliquot Vol:		uL		Test:	SVOCM	S Group3
Extraction Type :		Deca	inted : N	Level :	LOW	
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	Ν	PH :
Prep Method :	SW3510C					
File ID/Qc Batch:	Dilution:	Prep Date		Date Analyzed	Prep Batch I	D
BN033235.D	1	08/02/24 0	09:25	08/03/24 12:48	PB162464	
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	7130	21.125			
1520-96-3 H	Perylene-d12	7840	23.306			

- U = Not Detected
- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



D

6

# LAB CHRONICLE

OrderID: Client: Contact:	P3451 JACOBS Engineering Group, Inc. Mary I. Murphy			OrderDate: Project: Location:	8/1/2024 4:38:0 Former Schlum D31,VOA Ref. :	berger Site Pri	nceton NJ	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water			08/01/24			08/01/24
			SVOCMS Group3	8270-Modifie d		08/02/24	08/03/24	



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В	

7

# Hit Summary Sheet SW-846

SDG No.:	P3451				
Client:	JACOBS Engine	eering Group, Inc.			
Sample ID Client ID :	Client ID	Matrix	Parameter	Concentration C MDL	RDL Units
				0.000	
			<b>Total Svoc :</b>	0.00	
			<b>Total Concentration:</b>	0.00	





Revised



A B C D



7

		Repor	rt of An	alysis			
Client:	JACOBS Engineer	ing Group, Inc.			Date Collected:	08/01/24	
Project:	Former Schlumberg	ger Site Princeton N	1J		Date Received:	08/01/24	Ļ
Client Sample II		5			SDG No.:	P3451	
-							
Lab Sample ID:	P3451-01				Matrix:	Water	
Analytical Metho	od: SW8270				% Solid:	0	
Sample Wt/Vol:	980 Units:	mL			Final Vol:	1000	uL
Soil Aliquot Vol:		uL			Test:	SVOCM	IS Group6
Extraction Type			inted :	N	Level :	LOW	1
				1			DU
Injection Volume		GPC Factor :	1.0		GPC Cleanup :	Ν	PH :
Prep Method :	SW3510C						
File ID/Qc Batch:	Dilution:	Prep Date		Date	Analyzed	Prep Batch	ID
BF138844.D	1	08/02/24 0	09:23	08/07	7/24 16:05	PB162463	
CAS Number	Parameter	Conc.	Qualifie	er MDL		LOQ / CRQL	Units
TARGETS 110-86-1	Pyridine	1.60	U	1.60		5.10	ug/L
100-52-7	Benzaldehyde	4.10	U U	4.10		10.2	ug/L ug/L
95-48-7	2-Methylphenol	1.20	U U	1.20		5.10	ug/L ug/L
55794-96-9	3+4-Methylphenols	1.20	U	1.20		10.2	ug/L ug/L
57-72-1	Hexachloroethane	1.20	U	1.20		5.10	ug/L ug/L
98-95-3	Nitrobenzene	1.30	U	1.30		5.10	ug/L ug/L
91-20-3	Naphthalene	1.00	U	1.00		5.10	ug/L ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30		5.10	ug/L ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20		5.10	ug/L
38-06-2	2,4,6-Trichlorophenol	0.91	U	0.91		5.10	ug/L ug/L
)5-95-4	2,4,5-Trichlorophenol	1.00	U	1.00		5.10	ug/L ug/L
208-96-8	Acenaphthylene	1.10	U	1.10		5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83		5.10	ug/L
32-64-9	Dibenzofuran	0.95	U	0.95		5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60		5.10	ug/L
36-73-7	Fluorene	0.98	U	0.98		5.10	ug/L
18-74-1	Hexachlorobenzene	1.20	U	1.20		5.10	ug/L
37-86-5	Pentachlorophenol	1.20	U	1.20		10.2	ug/L
5-01-8	Phenanthrene	0.91	U	0.91		5.10	ug/L
20-12-7	Anthracene	1.10	U	1.10		5.10	ug/L
36-74-8	Carbazole	1.20	U	1.20		5.10	ug/L
34-74-2	Di-n-butylphthalate	1.50	U	1.50		5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30		5.10	ug/L
29-00-0	Pyrene	1.10	U	1.10		5.10	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96		5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88		5.10	ug/L
17-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90		5.10	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20		5.10	ug/L
	$D = \frac{1}{2} \int d^{2} dx = \frac{1}{2} \int dx = \frac{1}{2} \int$	1.20	U	1.20		5.10	

207-08-9

Benzo(k)fluoranthene

U

1.20

1.20

Revised

ug/L

5.10



7

#### **Report of Analysis** Client: JACOBS Engineering Group, Inc. Date Collected: 08/01/24 Project: Former Schlumberger Site Princeton NJ Date Received: 08/01/24 Client Sample ID: 921-J-WS-080124 SDG No .: P3451 Lab Sample ID: P3451-01 Matrix: Water Analytical Method: SW8270 % Solid: 0 Final Vol: 1000 uL Sample Wt/Vol: 980 Units: mL Soil Aliquot Vol: uL Test: SVOCMS Group6 Extraction Type : Decanted : Ν Level : LOW Injection Volume : GPC Factor : 1.0 GPC Cleanup : Ν PH : SW3510C Prep Method : File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID

File ID/Qc Batch: Dilution:		Prep Date		Date Analyzed	Prep Batch ID		
BF138844.D	1	08/02/24 09:23		08/07/24 16:05	PB162463		
CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units	
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L	
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L	
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L	
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L	
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L	
90-12-0	1-Methylnaphthalene	0.88	U	0.88	5.10	ug/L	
SURROGATES							
367-12-4	2-Fluorophenol	49.2		15 (10) - 110 (139)	33%	SPK: 150	
13127-88-3	Phenol-d6	29.6		15 (10) - 110 (134)	20%	SPK: 150	
4165-60-0	Nitrobenzene-d5	78.6		30 (49) - 130 (133)	79%	SPK: 100	
321-60-8	2-Fluorobiphenyl	87.4		30 (52) - 130 (132)	87%	SPK: 100	
118-79-6	2,4,6-Tribromophenol	128		15 (32) - 110 (145)	86%	SPK: 150	
1718-51-0	Terphenyl-d14	95.3		30 (36) - 130 (145)	95%	SPK: 100	
INTERNAL STAN	NDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	44300	6.839				
1146-65-2	Naphthalene-d8	184000	8.122				
15067-26-2	Acenaphthene-d10	95700	9.869				
1517-22-2	Phenanthrene-d10	153000	11.357				
1719-03-5	Chrysene-d12	77100	13.998				
1520-96-3	Perylene-d12	83600	15.457				

U = Not Detected
------------------

- LOQ = Limit of Quantitation
- MDL = Method Detection Limit
- LOD = Limit of Detection
- E = Value Exceeds Calibration Range
- Q = indicates LCS control criteria did not meet requirements
- M = MS/MSD acceptance criteria did not meet requirements

- J = Estimated Value
- B = Analyte Found in Associated Method Blank
- N = Presumptive Evidence of a Compound
- \* = Values outside of QC limits
- D = Dilution
- () = Laboratory InHouse Limit
- A = Aldol-Condensation Reaction Products



# A B C

D

# LAB CHRONICLE

OrderID: Client: Contact:	P3451 JACOBS Engineering Group, li Mary I. Murphy	OrderDate: Project: Location:	8/1/2024 4:38:0 Former Schlum D31,VOA Ref. #	berger Site Pri	nceton NJ			
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water	SVOCMS Group3 SVOCMS Group6	8270-Modified 8270E	08/01/24	08/02/24 08/02/24	08/03/24 08/07/24	08/01/24



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#### Hit Summary Sheet SW-846

rinceton	NJ
RDL	Units
20.0	ug/L
2.00	ug/L
1.00	ug/L
10.0	ug/L
500	ug/L
1.00	ug/L
2.00	ug/L
50.0	ug/L
1.00	ug/L
500	ug/L
1.00	ug/L
1.00	ug/L
500	ug/L
500	ug/L
5.00	ug/L
5.00	ug/L
	2.00 1.00 500 1.00 2.00 50.0 1.00 500 1.00 1.00 500 5.00

B C

D





Revised

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A B C D



Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/01/24	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/01/24	
Client Sample ID:	921-J-WS-080124	SDG No.:	P3451	Ì
Lab Sample ID:	P3451-01	Matrix:	Water	
Level (low/med):	low	% Solid:	0	

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	151		1	1.98	20.0	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-36-0	Antimony	0.23	J	1	0.11	2.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-38-2	Arsenic	2.11		1	0.090	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-39-3	Barium	48.7		1	0.30	10.0	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-70-2	Calcium	14700		1	62.5	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-47-3	Chromium	0.40	U	1	0.40	2.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-48-4	Cobalt	0.46	J	1	0.062	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-50-8	Copper	2.72		1	0.40	2.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-89-6	Iron	3270		1	9.60	50.0	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-92-1	Lead	2.52		1	0.11	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-95-4	Magnesium	2500		1	26.6	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-96-5	Manganese	352		1	0.24	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	08/12/24 16:13	08/13/24 10:42	SW7470A	
7440-02-0	Nickel	0.67	J	1	0.18	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-09-7	Potassium	2540		1	46.1	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-23-5	Sodium	51300		1	85.8	500	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-62-2	Vanadium	1.61	J	1	0.072	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A
7440-66-6	Zinc	7.82		1	0.56	5.00	ug/L	08/23/24 15:00	08/25/24 17:57	SW6020	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture: Medium				
Color After:	Colorless	Clarity After:	N/A	Artifacts: N/A				
Comments:	Mercury							
U = Not Detec	rted			J = Estimated Value				
	of Quantitation			B = Analyte Found in Associated Method Blank				
MDL = Metho	od Detection Limit			* = indicates the duplicate analysis is not within control limits.				
LOD = Limit	of Detection			E = Indicates the reported value is estimated because of the presence				
D = Dilution				of interference.				
Q = indicates	Q = indicates LCS control criteria did not meet requirements			OR = Over Range				
				N =Spiked sample recovery not within control limits				
- · - ·								

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B C

D



D

# LAB CHRONICLE

OrderID: Client: Contact:	P3451 JACOBS Engineering Group, I Mary I. Murphy	OrderDate: Project: Location:	8/1/2024 4:38:00 PM Former Schlumberger Site Princeton NJ D31,VOA Ref. #3 Water					
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3451-01	921-J-WS-080124	Water			08/01/24			08/01/24
			Mercury Metals Group4	7470A 6020B		08/12/24 08/23/24	08/13/24 08/25/24	





Revised

9

В



9

В

			Report of Ana	alysis					
Client:	JACOBS Er	ngineering Group,	Inc.		Date Collected:	08/01/24	08/01/24 14:20		
Project:	Former Schl	lumberger Site Pri	nceton NJ		Date Received:	08/01/24	)1/24		
Client Sample ID:	921-J-WS-0	80124			SDG No.:	P3451	P3451		
Lab Sample ID:	P3451-01				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		08/02/24 14:1	2 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



С

# LAB CHRONICLE

OrderID: Client: Contact:	P3451 JACOBS Engineering Group, I Mary I. Murphy	nc.		OrderDate: Project: Location:		24 4:38:00 PM Schlumberger Site Princeton NJ DA Ref. #3 Water						
LabID	LabID ClientID Matrix		Test	Method	Sample Date	Prep Date	Anal Date	Received				
P3451-01	921-J-WS-080124	WATER			08/01/24 14:20			08/01/24				
			Hexavalent Chromium	7196A			08/02/24 14:12					



# <u>SHIPPING</u> DOCUMENTS

10



# 284 Sheffield Street, Mountainside, NJ 07092

(908) 789-8900 • Fax (908) 789-8922

CHEMTECH PROJECT NO. QUOTE NO. P3451 COC Number 2041308

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www.chemtech.net

States of States	CLIENT INFORMATION			-		ROJECT IN	IFORM		1 5 - 5	-		and the second second		CLIE	_	_		1
	REPORTTO BE SENT TO:	1	a the			NUJECTIN	W"ORM/	ATION						ULIE	WE BILL	ING INF	ORMATION	
COMPANY:	Jacobs	PROJECT NAME: STC PTC BILL TO: Mar								Yary	y Murphy PO#:							
ADDRESS: L	PROJECT NO .: D3779972 LOCATION: Ringhan Junching Address:							/		<u>' 1</u>								
CITY MO	PROJEC	PROJECT MANAGER: Mary Murphy CITY											STA	TE:	ZIP:			
ATTENTION:	e-mail:	M	ary	. Murp	ohy a J.	acolos	CEM			ATTE	NTION:				PHO	ONE:		
PHONE: (28	1) 414-1719 FAX:	PHONE	: (7	101)	1 136- DS	<b>86</b> FA	AX:								AN	ALYSIS	S	
	DATA TURNAROUND INFORMATION					RABLE IN		ATION						1		,		
HARDCOPY (D/ EDD:	Standard TAT     DAYS*       ATA PACKAGE):     DAYS*       DAYS*     DAYS*       VED BY CHEMTECH     RDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS	Level	l 2 (Res l 3 (Res aw Dat	esults + esults + ta)	+ QC)	Level 4 (QC NJ Reduce NYS ASP A Other	ed 🖬 Us A 🗔 NY	Raw Data S EPA CI S ASP E	a) JP SUCS 65	Lion -	HIC ST	10205 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1196			3 9		
CHEMTECH				IPLE		MPLE	E I	61	) <del>1</del> 2		PRE	SERVA	TIVES					OMMENTS
SAMPLE	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB 34	DATE		OF BOTTLES	A/E	E	₿∕E	E						A-HCI B-HN03	Cify Preservatives D-NaOH E-ICE
1.	Rel To a la la	11.00	8			<u> </u>	*	1	2	3	4	5	6	7	8	9	C-H2SO4	F-OTHER
	921-J-WS-680124	WS			8/1/24	1	6	2	2	1	1							
2.	TB-03-08012	DI		$\boldsymbol{\kappa}$	8/1/24	1550		1										
3.																		
4.																		
5.													ĺ					
6.																		
7.																		
8.																		
9.																		
10																		
	SAMPLE CUSTODY MUST BE DOCI	JMENTED	) BEL	.ow I	EACH TI	ME SAMP	LES C	HANGE	POSS	SESSIO	N INCL	UDING	COUR	IER DE	LIVEF	Y	2 0	
RELINQUISHED BY 1. A RELINQUISHED BY 2.		$\mathcal{P}$	) 8.1	630	S Condition	ions of bottles nts: <u>See</u> ECO	attac meta	s at receir hed ls	ot: a c alsie	COMPLIAN	τ ο ΝΟΙ <b>Ζημίνα</b>	N COMPLI	ant a lytes	COOLER T	emp & F	co-Va	Jro Ms, Eco	°C / <del>~</del> SVOCs ,
	2. 2. 2. 2. 2. 2. 2. 2. 2. 2.				Page	of	1	CLIENT		Hand D		O D Fie	ther Id Samp	ling				nt Complete S 🗆 NO
dright @ 2023	WHITE - CHEMTER	COPY FO	RRETL	JRN TC	CLIENT	YELLO	W - CHEN	ITECH CO	PY	PINK -	SAMPLE	R COPY						

P3451

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## 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



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

#### LOGIN REPORT/SAMPLE TRANSFER

Client Contact :		JACOBS Engineering Grou Mary I. Murphy JACOBS Engineering Grou		Project Name :		8/1/2024 4:38:00 PM Former Schlumberger Site 1 8/1/2024 <u>12:00:00 AM</u> トラ:30	Project Mgr : Report Type : Level 4 EDD Type : CH2MHILL Hard Copy Date : Date Signoff :					
LAB ID	CLIENT	ΓID		MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P3451-01	9	21-J-WS-0	80124	Water	08/01/2024	14:20						
							VOCMS Group6		8260-Low	10 Bus. Days		
P3451-02		TB-03-080	0124	Water	08/01/2024	15:50						
							VOCMS Group6		8260-Low	10 Bus. Days		

Relinguished By : Date / Time : 8/2/24 0730

Received By : -Find Reft 4 NY Date / Time : 😪

Storage Area : VOA Refridgerator Room