

Hit Summary Sheet
SW-846

SDG No.: P3609
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: P3609-01	915-J-WS-081424 915-J-WS-081424	Water	Acetone	3.70	J	1.40	5.00	ug/L
			Total Voc :	3.70				
			Total Concentration:	3.70				
Client ID: P3609-02	920-J-WS-081424 920-J-WS-081424	Water	Acetone	3.70	J	1.40	5.00	ug/L
			Total Voc :	3.70				
			Total Concentration:	3.70				
Client ID: P3609-03	TB-01-081424 TB-01-081424	Water	Acetone	3.50	J	1.40	5.00	ug/L
			Total Voc :	3.50				
			Total Concentration:	3.50				

A
B
C
D



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
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
VN083316.D	1		08/14/24 21:19	VN081424

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	3.70	J	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
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
VN083316.D	1		08/14/24 21:19	VN081424

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	58.6		70 (74) - 130 (125)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	54.0		70 (75) - 130 (124)	108%	SPK: 50
2037-26-5	Toluene-d8	53.6		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.3		70 (77) - 130 (121)	115%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	123000	8.224			
540-36-3	1,4-Difluorobenzene	242000	9.1			
3114-55-4	Chlorobenzene-d5	253000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	111000	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
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
VN083317.D	1		08/14/24 21:43	VN081424

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	3.70	J	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
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
VN083317.D	1		08/14/24 21:43	VN081424

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	60.1		70 (74) - 130 (125)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	54.7		70 (75) - 130 (124)	109%	SPK: 50
2037-26-5	Toluene-d8	55.0		70 (86) - 130 (113)	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	121000	8.224			
540-36-3	1,4-Difluorobenzene	238000	9.106			
3114-55-4	Chlorobenzene-d5	245000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.794			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/14/24
Client Sample ID:	TB-01-081424	SDG No.:	P3609
Lab Sample ID:	P3609-03	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
VN083315.D	1		08/14/24 20:55	VN081424

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	3.50	J	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/14/24
Client Sample ID:	TB-01-081424	SDG No.:	P3609
Lab Sample ID:	P3609-03	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
VN083315.D	1		08/14/24 20:55	VN081424

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	56.9		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		70 (75) - 130 (124)	107%	SPK: 50
2037-26-5	Toluene-d8	53.6		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.0		70 (77) - 130 (121)	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	130000	8.224			
540-36-3	1,4-Difluorobenzene	254000	9.1			
3114-55-4	Chlorobenzene-d5	264000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	116000	13.794			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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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

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	VOCMS Group6	8260-Low	08/14/24		08/14/24	08/14/24
P3609-02	920-J-WS-081424	Water	VOCMS Group6	8260-Low	08/14/24		08/14/24	08/14/24
P3609-03	TB-01-081424	Water	VOCMS Group6	8260-Low	08/14/24		08/14/24	08/14/24



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

Hit Summary Sheet SW-846

SDG No.: P3609

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : 915-J-WS-081424								
P3609-01	915-J-WS-081424	WATER	Fluorene	0.070	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Phenanthrene	0.040	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Chrysene	0.030	J	0.03	0.1	ug/L
P3609-01	915-J-WS-081424	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.1	ug/L
Total Svoc :						0.27		
Total Concentration:						0.27		
Client ID : 920-J-WS-081424								
P3609-02	920-J-WS-081424	WATER	Fluorene	0.040	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Phenanthrene	0.040	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Fluoranthene	0.060	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Pyrene	0.040	J	0.02	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Chrysene	0.040	J	0.03	0.1	ug/L
P3609-02	920-J-WS-081424	WATER	Benzo(b)fluoranthene	0.030	J	0.03	0.1	ug/L
Total Svoc :						0.25		
Total Concentration:						0.25		



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033471.D	1	08/15/24 08:23	08/17/24 16:57	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.070	J	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.040	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.10	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	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	J	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	0.040	U	0.040	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	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.28		30 (20) - 150 (139)	69%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (30) - 150 (150)	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		30 (27) - 130 (123)	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		30 (34) - 130 (132)	81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.65	*	30 (35) - 130 (157)	163%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8280	7.559			
1146-65-2	Naphthalene-d8	22100	10.314			
15067-26-2	Acenaphthene-d10	10700	14.189			
1517-22-2	Phenanthrene-d10	21500	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033471.D	1	08/15/24 08:23	08/17/24 16:57	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	18100	21.148			
1520-96-3	Perylene-d12	19100	23.317			

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033454.D	1	08/15/24 08:23	08/17/24 06:02	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
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	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.040	J	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.040	J	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	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	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.040	J	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	0.27		30 (20) - 150 (139)	67%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 (30) - 150 (150)	88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		30 (27) - 130 (123)	83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		30 (34) - 130 (132)	73%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		30 (35) - 130 (157)	122%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7670	7.559			
1146-65-2	Naphthalene-d8	20900	10.325			
15067-26-2	Acenaphthene-d10	10500	14.199			
1517-22-2	Phenanthrene-d10	19700	16.942			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN033454.D	1	08/15/24 08:23	08/17/24 06:02	PB162758

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	15400	21.148			
1520-96-3	Perylene-d12	16100	23.32			

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

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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

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	SVOCMS Group3	8270-Modified	08/14/24	08/15/24	08/17/24	08/14/24
P3609-02	920-J-WS-081424	Water	SVOCMS Group3	8270-Modified	08/14/24	08/15/24	08/17/24	08/14/24



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

A
B
C
D

Hit Summary Sheet
SW-846

SDG No.: P3609
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :				0.000				
Total Svoc :					0.00			
Total Concentration:					0.00			



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047256.D	1	08/15/24 08:23	08/19/24 17:28	PB162757

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.20	ug/L
100-52-7	Benzaldehyde	4.20	U	4.20	10.4	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.4	ug/L
67-72-1	Hexachloroethane	1.10	U	1.10	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
88-06-2	2,4,6-Trichlorophenol	0.93	U	0.93	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.10	U	1.10	5.20	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
132-64-9	Dibenzofuran	0.97	U	0.97	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
86-73-7	Fluorene	1.00	U	1.00	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.4	ug/L
85-01-8	Phenanthrene	0.93	U	0.93	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
56-55-3	Benzo(a)anthracene	0.98	U	0.98	5.20	ug/L
218-01-9	Chrysene	0.90	U	0.90	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.00	U	2.00	5.20	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047256.D	1	08/15/24 08:23	08/19/24 17:28	PB162757

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
90-12-0	1-Methylnaphthalene	0.90	U	0.90	5.20	ug/L

SURROGATES

367-12-4	2-Fluorophenol	55.5		15 (10) - 110 (139)	37%	SPK: 150
13127-88-3	Phenol-d6	34.7		15 (10) - 110 (134)	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.0		30 (49) - 130 (133)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.3		30 (52) - 130 (132)	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	155		15 (44) - 110 (137)	103%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		30 (48) - 130 (125)	86%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	197000	7.363
1146-65-2	Naphthalene-d8	740000	10.122
15067-26-2	Acenaphthene-d10	509000	14.027
1517-22-2	Phenanthrene-d10	1170000	16.786
1719-03-5	Chrysene-d12	1270000	21.027
1520-96-3	Perylene-d12	1250000	23.733

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047257.D	1	08/15/24 08:23	08/19/24 18:08	PB162757

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.60	U	1.60	5.00	ug/L
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group6
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM047257.D	1	08/15/24 08:23	08/19/24 18:08	PB162757

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.86	U	0.86	5.00	ug/L

SURROGATES

367-12-4	2-Fluorophenol	57.3		15 (10) - 110 (139)	38%	SPK: 150
13127-88-3	Phenol-d6	34.2		15 (10) - 110 (134)	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.0		30 (49) - 130 (133)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.0		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	175	*	15 (44) - 110 (137)	117%	SPK: 150
1718-51-0	Terphenyl-d14	92.1		30 (48) - 130 (125)	92%	SPK: 100

INTERNAL STANDARDS

3855-82-1	1,4-Dichlorobenzene-d4	161000	7.363
1146-65-2	Naphthalene-d8	602000	10.116
15067-26-2	Acenaphthene-d10	400000	14.021
1517-22-2	Phenanthrene-d10	912000	16.786
1719-03-5	Chrysene-d12	1070000	21.027
1520-96-3	Perylene-d12	1180000	23.732

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



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			08/14/24
			SVOCMS Group3	8270-Modified		08/15/24	08/17/24	
			SVOCMS Group6	8270E		08/15/24	08/19/24	
P3609-02	920-J-WS-081424	Water			08/14/24			08/14/24
			SVOCMS Group3	8270-Modified		08/15/24	08/17/24	
			SVOCMS Group6	8270E		08/15/24	08/19/24	



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

Hit Summary Sheet
SW-846

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : P3609-01	915-J-WS-081424 915-J-WS-081424	Water	Dissolved Silica	5030		64.0	428	ug/L
Client ID : P3609-02	920-J-WS-081424 920-J-WS-081424	Water	Dissolved Silica	4920		64.0	428	ug/L



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
Dissolved Silica	Dissolved Silica	5030	1	64.0		428	ug/L	10/24/24 11:45	10/24/24 22:26	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
Dissolved Silica	Dissolved Silica	4920	1	64.0		428	ug/L	10/24/24 11:45	10/24/24 22:30	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Metals Group5			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	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			08/14/24
			Mercury	7470A		09/03/24	09/04/24	
			Metals Group4	6020B		09/04/24	09/04/24	
			Metals Group5	200.7		10/24/24	10/24/24	
P3609-02	920-J-WS-081424	Water			08/14/24			08/14/24
			Mercury	7470A		09/03/24	09/04/24	
			Metals Group4	6020B		09/04/24	09/04/24	
			Metals Group5	200.7		10/24/24	10/24/24	

Hit Summary Sheet SW-846

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

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 915-J-WS-081424								
P3609-01	915-J-WS-081424	Water	Aluminum	833		1.98	20.0	ug/L
P3609-01	915-J-WS-081424	Water	Antimony	0.93	J	0.11	2.00	ug/L
P3609-01	915-J-WS-081424	Water	Arsenic	3.81		0.090	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Barium	63.0		0.30	10.0	ug/L
P3609-01	915-J-WS-081424	Water	Beryllium	0.27	J	0.16	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Calcium	19300		62.5	500	ug/L
P3609-01	915-J-WS-081424	Water	Chromium	3.67		0.40	2.00	ug/L
P3609-01	915-J-WS-081424	Water	Cobalt	1.19		0.062	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Copper	9.55		0.40	2.00	ug/L
P3609-01	915-J-WS-081424	Water	Iron	6020		9.60	50.0	ug/L
P3609-01	915-J-WS-081424	Water	Lead	5.58		0.11	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Magnesium	3470		26.6	500	ug/L
P3609-01	915-J-WS-081424	Water	Manganese	473		0.24	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Nickel	2.70		0.18	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Potassium	2880		46.1	500	ug/L
P3609-01	915-J-WS-081424	Water	Silver	0.21	J	0.077	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Sodium	67800		85.8	500	ug/L
P3609-01	915-J-WS-081424	Water	Thallium	0.16	J	0.085	1.00	ug/L
P3609-01	915-J-WS-081424	Water	Vanadium	2.55	J	0.072	5.00	ug/L
P3609-01	915-J-WS-081424	Water	Zinc	54.0		0.56	5.00	ug/L
Client ID : 920-J-WS-081424								
P3609-02	920-J-WS-081424	Water	Aluminum	129		1.98	20.0	ug/L
P3609-02	920-J-WS-081424	Water	Antimony	0.32	J	0.11	2.00	ug/L
P3609-02	920-J-WS-081424	Water	Arsenic	2.08		0.090	1.00	ug/L
P3609-02	920-J-WS-081424	Water	Barium	58.4		0.30	10.0	ug/L
P3609-02	920-J-WS-081424	Water	Calcium	19200		62.5	500	ug/L
P3609-02	920-J-WS-081424	Water	Chromium	1.65	J	0.40	2.00	ug/L
P3609-02	920-J-WS-081424	Water	Cobalt	0.64	J	0.062	1.00	ug/L
P3609-02	920-J-WS-081424	Water	Copper	3.01		0.40	2.00	ug/L
P3609-02	920-J-WS-081424	Water	Iron	3320		9.60	50.0	ug/L
P3609-02	920-J-WS-081424	Water	Lead	1.63		0.11	1.00	ug/L
P3609-02	920-J-WS-081424	Water	Magnesium	3440		26.6	500	ug/L
P3609-02	920-J-WS-081424	Water	Manganese	463		0.24	1.00	ug/L
P3609-02	920-J-WS-081424	Water	Nickel	1.66		0.18	1.00	ug/L
P3609-02	920-J-WS-081424	Water	Potassium	2850		46.1	500	ug/L
P3609-02	920-J-WS-081424	Water	Sodium	69300		85.8	500	ug/L
P3609-02	920-J-WS-081424	Water	Vanadium	1.04	J	0.072	5.00	ug/L

Hit Summary Sheet
SW-846

SDG No.: P3609

Order ID: P3609

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3609-02	920-J-WS-081424	Water	Zinc	13.6		0.56	5.00	ug/L



SAMPLE DATA

A

B

C

D

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/14/24
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
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	833		1	1.98	20.0	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-36-0	Antimony	0.93	J	1	0.11	2.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-38-2	Arsenic	3.81	*	1	0.090	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-39-3	Barium	63.0		1	0.30	10.0	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-41-7	Beryllium	0.27	J	1	0.16	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-70-2	Calcium	19300		1	62.5	500	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-47-3	Chromium	3.67		1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-48-4	Cobalt	1.19		1	0.062	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-50-8	Copper	9.55		1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7439-89-6	Iron	6020		1	9.60	50.0	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7439-92-1	Lead	5.58		1	0.11	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7439-95-4	Magnesium	3470		1	26.6	500	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7439-96-5	Manganese	473		1	0.24	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	09/03/24 15:15	09/04/24 13:19	SW7470A	
7440-02-0	Nickel	2.70		1	0.18	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-09-7	Potassium	2880		1	46.1	500	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-22-4	Silver	0.21	JN	1	0.077	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-23-5	Sodium	67800		1	85.8	500	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-28-0	Thallium	0.16	J	1	0.085	1.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-62-2	Vanadium	2.55	J	1	0.072	5.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A
7440-66-6	Zinc	54.0		1	0.56	5.00	ug/L	09/04/24 12:30	09/04/24 16:03	SW6020	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Mercury			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
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 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
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
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	129		1	1.98	20.0	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-36-0	Antimony	0.32	J	1	0.11	2.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-38-2	Arsenic	2.08	*	1	0.090	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-39-3	Barium	58.4		1	0.30	10.0	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-41-7	Beryllium	0.16	U	1	0.16	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-43-9	Cadmium	0.30	U	1	0.30	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-70-2	Calcium	19200		1	62.5	500	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-47-3	Chromium	1.65	J	1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-48-4	Cobalt	0.64	J	1	0.062	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-50-8	Copper	3.01		1	0.40	2.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7439-89-6	Iron	3320		1	9.60	50.0	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7439-92-1	Lead	1.63		1	0.11	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7439-95-4	Magnesium	3440		1	26.6	500	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7439-96-5	Manganese	463		1	0.24	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	09/03/24 15:15	09/04/24 13:31	SW7470A	
7440-02-0	Nickel	1.66		1	0.18	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-09-7	Potassium	2850		1	46.1	500	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7782-49-2	Selenium	1.38	U	1	1.38	5.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-22-4	Silver	0.077	UN	1	0.077	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-23-5	Sodium	69300		1	85.8	500	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-28-0	Thallium	0.085	U	1	0.085	1.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-62-2	Vanadium	1.04	J	1	0.072	5.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A
7440-66-6	Zinc	13.6		1	0.56	5.00	ug/L	09/04/24 12:30	09/04/24 16:07	SW6020	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Mercury			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
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J = Estimated Value
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 OR = Over Range
 N = Spiked sample recovery not within control limits

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	Mercury	7470A	08/14/24	09/03/24	09/04/24	08/14/24
			Metals Group4	6020B		09/04/24	09/04/24	
P3609-02	920-J-WS-081424	Water	Mercury	7470A	08/14/24	09/03/24	09/04/24	08/14/24
			Metals Group4	6020B		09/04/24	09/04/24	



SAMPLE DATA

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
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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	Hexavalent Chromium	7196A	08/14/24 10:25		08/14/24 17:04	08/14/24
P3609-02	920-J-WS-081424	WATER	Hexavalent Chromium	7196A	08/14/24 11:20		08/14/24 17:08	08/14/24