

ANALYTICAL RESULTS SUMMARY

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 : P3573

ATTENTION : John Ynfante



Laboratory Certification ID # 20012



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DATA OF KNOWN QUALITY CONFORMANCE/NON-CONFORMANCE SUMMARY QUESTIONNAIRE

Laboratory Name : Alliance Technical Group Client : JACOBS Engineering Group, Inc.

Project Location : Princeton Junction, NJ Project Number : D3779922

Laboratory Sample ID(s) : P3573 Sampling Date(s) : 08/09/2024

List DKQP Methods Used (e.g., 8260,8270, et Cetra) **6010D,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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified handling, preservation, and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	EPH Method: Was the EPH method conducted without significant modifications (see Section 11.3 of respective DKQ methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (4±2° C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the NJDEP DKQP standards achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a)Were reporting limits specified or referenced on the chain-of-custody or communicated to the laboratory prior to sample receipt? b)Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and/or laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.”

Cover Page

Order ID : P3573

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3573-01
P3573-02
P3573-03
P3573-04
P3573-05
P3573-06
P3573-07
P3573-08
P3573-09
P3573-10
P3573-12

Client Sample Number

S-858-KI-SO-2-2.5-080924
S-859-KI-SO-2-2.5-080924
S-859-KI-SO-2-2.5-080924-FD
S-860-KI-SO-2-2.5-080924
S-856-J-SO-1-1.5-080924
S-856-J-SO-1-1.5-080924-FD
S-856-J-SO-1.5-2-080924
S-856-J-SO-2-2.5-080924
S-856-J-SO-3-3.5-080924
S-856-J-SO-4-4.5-080924
EB-01-080924

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: 6/3/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Order ID # P3573

Test Name: SVOCMS Group2

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 08/09/2024.

1 Water sample was received on 08/09/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Metals Group5 and SVOCMS Group2. This data package contains results for SVOCMS Group2.

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 df. The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GG. The analysis of SVOCMS Group2 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 {P3573-05MS} with File ID: BF139038.D recoveries met the requirements for all compounds except for Dibenz(a,h)anthracene[67%], this compound did not meet the NJDKQP criteria but met the in-house criteria .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate 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 BF139113.D met the requirements except for Nitrobenzene-d5, The associate samples have no positive hit for this compound therefore no corrective action was taken.



The Tuning criteria met requirements.

E. Additional Comments:

This Data Package has been revised due to Client ID Changed as per Client Request.

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

The soil samples results are based on a dry weight basis.

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 <20% 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 > 20% 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

Order ID # P3573

Test Name: Metals Group5

A. Number of Samples and Date of Receipt:

10 Solid samples were received on 08/09/2024.

1 Water sample was received on 08/09/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group5 and SVOCMS Group2. This data package contains results for Metals Group5.

C. Analytical Techniques:

The analysis of Metals Group5 was based on method 6010D and digestion based on method 3050 (soils) and 3010 (waters).

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.

The Serial Dilution met the acceptable requirements.

E. Additional Comments:

This Data Package has been revised due to Client ID Changed as per Client Request.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

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	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (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.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	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.
P	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”.
N	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.
A	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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3573

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/03/2025



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

Hit Summary Sheet SW-846

SDG No.: P3573
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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-856-J-SO-1-1.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139037.D	1	08/13/24 08:30	08/15/24 22:47	PB162688

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	63.4		30 (18) - 130 (107)	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.3		30 (20) - 130 (109)	62%	SPK: 100
1718-51-0	Terphenyl-d14	66.6		30 (10) - 130 (105)	67%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	42100	6.834			
1146-65-2	Naphthalene-d8	174000	8.116			
15067-26-2	Acenaphthene-d10	94500	9.869			
1517-22-2	Phenanthrene-d10	153000	11.351			
1719-03-5	Chrysene-d12	76300	13.998			
1520-96-3	Perylene-d12	79100	15.463			

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:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-856-J-SO-1-1.5-080924-FD	SDG No.:	P3573
Lab Sample ID:	P3573-06	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	82.5
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP021522.D	1	08/13/24 08:30	08/15/24 20:47	PB162688

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
56-55-3	Benzo(a)anthracene	97.7	U	97.7	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.3	U	98.3	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	70.1		30 (18) - 130 (107)	70%	SPK: 100
321-60-8	2-Fluorobiphenyl	60.3		30 (20) - 130 (109)	60%	SPK: 100
1718-51-0	Terphenyl-d14	59.4		30 (10) - 130 (105)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	408000	7.804			
1146-65-2	Naphthalene-d8	1620000	10.587			
15067-26-2	Acenaphthene-d10	1040000	14.451			
1517-22-2	Phenanthrene-d10	2330000	17.245			
1719-03-5	Chrysene-d12	2530000	21.698			
1520-96-3	Perylene-d12	2810000	25.109			

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A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-856-J-SO-1.5-2-080924	SDG No.:	P3573
Lab Sample ID:	P3573-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.5
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139035.D	1	08/13/24 08:30	08/15/24 21:45	PB162688

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	58.3		30 (18) - 130 (107)	58%	SPK: 100
321-60-8	2-Fluorobiphenyl	57.1		30 (20) - 130 (109)	57%	SPK: 100
1718-51-0	Terphenyl-d14	57.5		30 (10) - 130 (105)	58%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	41000	6.834			
1146-65-2	Naphthalene-d8	162000	8.116			
15067-26-2	Acenaphthene-d10	86100	9.869			
1517-22-2	Phenanthrene-d10	139000	11.357			
1719-03-5	Chrysene-d12	72100	13.998			
1520-96-3	Perylene-d12	78000	15.463			

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-856-J-SO-2-2.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-08	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.2
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP021523.D	1	08/13/24 08:30	08/15/24 21:30	PB162688

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.6		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.4		30 (20) - 130 (109)	56%	SPK: 100
1718-51-0	Terphenyl-d14	55.9		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	388000	7.799			
1146-65-2	Naphthalene-d8	1530000	10.587			
15067-26-2	Acenaphthene-d10	963000	14.439			
1517-22-2	Phenanthrene-d10	2110000	17.245			
1719-03-5	Chrysene-d12	2260000	21.686			
1520-96-3	Perylene-d12	2270000	25.074			

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-856-J-SO-3-3.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	80.7
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF139036.D	1	08/13/24 08:30	08/15/24 22:16	PB162688

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
56-55-3	Benzo(a)anthracene	99.7	U	99.7	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	68.3		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.6		30 (20) - 130 (109)	67%	SPK: 100
1718-51-0	Terphenyl-d14	69.4		30 (10) - 130 (105)	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35800	6.833			
1146-65-2	Naphthalene-d8	148000	8.116			
15067-26-2	Acenaphthene-d10	79000	9.869			
1517-22-2	Phenanthrene-d10	130000	11.351			
1719-03-5	Chrysene-d12	65500	13.998			
1520-96-3	Perylene-d12	67300	15.462			

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LOQ = Limit of Quantitation

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-856-J-SO-4-4.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-10	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	71.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP021524.D	1	08/13/24 08:30	08/15/24 22:14	PB162688

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
56-55-3	Benzo(a)anthracene	110	U	110	240	ug/Kg
50-32-8	Benzo(a)pyrene	130	U	130	240	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	110	U	110	240	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	62.2		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.8		30 (20) - 130 (109)	53%	SPK: 100
1718-51-0	Terphenyl-d14	49.3		30 (10) - 130 (105)	49%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	358000	7.804			
1146-65-2	Naphthalene-d8	1360000	10.587			
15067-26-2	Acenaphthene-d10	799000	14.439			
1517-22-2	Phenanthrene-d10	1710000	17.227			
1719-03-5	Chrysene-d12	1750000	21.668			
1520-96-3	Perylene-d12	2080000	25.08			

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:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	EB-01-080924	SDG No.:	P3573
Lab Sample ID:	P3573-12	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group2
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
BP021517.D	1	08/13/24 08:33	08/15/24 17:09	PB162687

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
SURROGATES						
4165-60-0	Nitrobenzene-d5	99.7		30 (49) - 130 (133)	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.0		30 (52) - 130 (132)	81%	SPK: 100
1718-51-0	Terphenyl-d14	96.6		30 (48) - 130 (125)	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	407000	7.799			
1146-65-2	Naphthalene-d8	1610000	10.581			
15067-26-2	Acenaphthene-d10	1030000	14.44			
1517-22-2	Phenanthrene-d10	2150000	17.245			
1719-03-5	Chrysene-d12	2220000	21.692			
1520-96-3	Perylene-d12	2140000	25.08			

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: P3573	OrderDate: 8/12/2024 9:50:00 AM
Client: JACOBS Engineering Group, Inc.	Project: Former Schlumberger Site Princeton NJ
Contact: John Ynfante	Location: D11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3573-05	S-856-J-SO-1-1.5-080 924	SOIL			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	
P3573-06	S-856-J-SO-1-1.5-080 924-FD	SOIL			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	
P3573-07	S-856-J-SO-1.5-2-080 924	SOIL			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	
P3573-08	S-856-J-SO-2-2.5-080 924	SOIL			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	
P3573-09	S-856-J-SO-3-3.5-080 924	SOIL			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	
P3573-10	S-856-J-SO-4-4.5-080 924	SOIL			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	
P3573-12	EB-01-080924	Water			08/09/24			08/09/24
			SVOCMS Group2	8270E		08/13/24	08/15/24	



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-858-KI-SO-2-2.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	82.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Rep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	2.04	1	0.051	0.49	mg/Kg	08/14/24 11:00	08/23/24 19:56	6010D	SW3050	

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
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:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-859-KI-SO-2-2.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Rep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	1.81	1	0.058	0.56	mg/Kg	08/14/24 11:00	08/23/24 20:00	6010D	SW3050	

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	No
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:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-859-KI-SO-2-2.5-080924-FD	SDG No.:	P3573
Lab Sample ID:	P3573-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	3.64	1	0.052	0.50	mg/Kg	08/14/24 11:00	08/23/24 20:04	6010D	SW3050	

Color Before: Brown	Clarity Before:	Texture: Medium
Color After: Yellow	Clarity After:	Artifacts: No
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:	08/09/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/09/24
Client Sample ID:	S-860-KI-SO-2-2.5-080924	SDG No.:	P3573
Lab Sample ID:	P3573-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Rep Date	Date Ana.	Ana Met.	Prep Met.
7440-22-4	Silver	2.68	1	0.059	0.57	mg/Kg	08/14/24 11:00	08/23/24 20:08	6010D	SW3050	

Color Before: Brown	Clarity Before:	Texture: Medium
Color After: Yellow	Clarity After:	Artifacts: No
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: P3573	OrderDate: 8/12/2024 9:50:00 AM
Client: JACOBS Engineering Group, Inc.	Project: Former Schlumberger Site Princeton NJ
Contact: John Ynfante	Location: D11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3573-01	S-858-KI-SO-2-2.5-08 0924	SOIL			08/09/24			08/09/24
			Metals Group5	6010D		08/14/24	08/23/24	
P3573-02	S-859-KI-SO-2-2.5-08 0924	SOIL			08/09/24			08/09/24
			Metals Group5	6010D		08/14/24	08/23/24	
P3573-03	S-859-KI-SO-2-2.5-08 0924-FD	SOIL			08/09/24			08/09/24
			Metals Group5	6010D		08/14/24	08/23/24	
P3573-04	S-860-KI-SO-2-2.5-08 0924	SOIL			08/09/24			08/09/24
			Metals Group5	6010D		08/14/24	08/23/24	
P3573-12	EB-01-080924	Water			08/09/24			08/09/24
			Metals Group5	6010D		08/14/24	08/23/24	



SHIPPING DOCUMENTS

From: Ynfante, John <John.Ynfante@jacobs.com>
Sent: Friday, May 30, 2025 7:57 PM
To: Yazmeen Gomez
Subject: another sample ID correction - in P3475 and P3573

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Yazmeen,

It was also pointed out to me that SDGs P3475 and P3573 logged in soil samples with “S0” (number zero) in the ID instead of “SO” (letter O). Can you resubmit those files with the “SO” in the sample IDs which indicates that they are soil samples in our database. Thanks.

John Ynfante
Jacobs
Chemist
281-414-1719 mobile
John.Ynfante@jacobs.com
www.jacobs.com

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New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488