

ANALYTICAL RESULT SUMMARY

METALS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1769 ATTENTION : John Ynfante



Laboratory Certification ID # 20012



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Client Sample Number

Cover Page

- **Order ID :** Q1769
- Project ID : Former Schlumberger STC PTC Site D3868221
 - **Client :** JACOBS Engineering Group, Inc.

Lab Sample Number

Q1769-02S-875-K1-SO-1.0-1.5-040925Q1769-03S-874-K1-SO-1.0-1.5-040925Q1769-04S-874-K1-SO-1.0-1.5-040925-FDQ1769-08EB01-040925Q1769-09S-873-K1-SO-1.0-1.5-040925Q1769-10S-873-K1-SO-1.0-1.5-040925MSQ1769-11S-873-K1-SO-1.0-1.5-040925MSD

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: 5/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

JACOBS Engineering Group, Inc. Project Name: Former Schlumberger STC PTC Site D3868221 Project # N/A Order ID # Q1769 Test Name: Metals Group4

A. Number of Samples and Date of Receipt:

6 Solid samples were received on 04/09/2025.1 Water sample was received on 04/09/2025.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Metals Group4. This data package contains results for Metals Group4.

C. Analytical Techniques:

The analysis of Metals Group4 was based on method 6020B 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 (S-873-K1-SO-1.0-1.5-040925MS) analysis met criteria for all samples except for Silver due to matrix interference.

The Matrix Spike Duplicate (S-873-K1-SO-1.0-1.5-040925MSD) analysis met criteria for all samples except for Silver due to matrix interference.

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:

All samples analyzed and reported with straight 5X dilution because of soil sample matrix was very smelly and possible contains organic chemical interference which causes enhancement effect to the internal standard causing QC failure and possible not the correct concentration of required analyte.

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.

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The projects has been revised due to sample EB01-040925 (lab ID Q1769-08) was analyzed and data were reported by 6010D instead of 6020B, and Client ID updated for Q1769-02, Q1769-03, Q1769-04, Q1769-09, Q1769-10 and Q1769-11 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							
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	 Method qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. 							
Q	Indicates the LCS did not meet the control limits requirements							
Н	Sample Analysis Out Of Hold Time							



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1769

Completed

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For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u>✓</u>
Is the chain of custody signed and complete	<u>✓</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<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

Revised



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

Hit Summary Sheet SW-846

SDG No.: Client:	Q1769 JACOBS Engineering Group, Inc	2.		Order ID: Project ID		Q1769 Former Schlumbe	rger STC PTC Site	e D386
Sample ID	Client ID	Matrix	Parameter	Concentration	С	MDL	RDL	Units
Client ID :	S-875-K1-SO-1.0-1.5-040925							
Q1769-02	S-875-K1-SO-1.0-1.5-040925	SOIL	Silver	6.96	D	0.078	0.30	mg/Kg
Client ID :	S-874-K1-SO-1.0-1.5-040925							
Q1769-03	S-874-K1-SO-1.0-1.5-040925	SOIL	Silver	37.2	D	0.092	0.35	mg/Kg
Client ID :	S-874-K1-SO-1.0-1.5-040925-FD							
Q1769-04	S-874-K1-SO-1.0-1.5-040925-FI	SOIL	Silver	44.6	D	0.096	0.37	mg/Kg
Client ID :	S-873-K1-SO-1.0-1.5-040925							
Q1769-09	S-873-K1-SO-1.0-1.5-040925	SOIL	Silver	13.7	D	0.093	0.36	mg/Kg

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Client:		JAC	COBS Engine	eering Group, In	nc.		Date Collected:	l: 04/09	9/25		С
Project:		Forr	mer Schlumb	erger STC PTC	C Site D3868221		Date Received:	: 04/09	9/25		D
Client Sar	nple ID:	S-87	75-K1-SO-1.	.0-1.5-040925			SDG No.:	Q176	69		
Lab Samp	ole ID:	Q17	769-02				Matrix:	SOIL	L		
Level (lov	<i>w</i> /med):	low					% Solid:	78.5			
Cas	Parameter	Conc.	Qua. DF	MDL	LOQ / CRQL	Units(Dry W	eigh f)rep Date	Date Ana.	Ana Met.	Prep Met.	
7440-22-4	Silver	6.96	DN 5	0.078	0.30	mg/Kg	04/10/25 13:05	04/11/25 14:21	6020B	SW3050	J

Color Before:	Black C	Clarity Before:	Texture:	Medium				
Color After:	Yellow	Clarity After:	Artifacts:					
Comments:	Metals Group4							
U = Not Dete	cted		J = Estimated Value					
LOQ = Limit	of Quantitation		B = Analyte Found in Associated Method Blank					
MDL = Meth	od Detection Limit		* = indicates the duplicate analysis	is not within control limits.				
LOD = Limit	of Detection		E = Indicates the reported value is es	stimated because of the presence				
D = Dilution			of interference.					
O = indicates	LCS control criteria did not meet requ	uirements	OR = Over Range					
`	1		N = Spiked sample recovery not with	in control limits				
0 (- 00				_				



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Client:		JAC	COBS Engine	ering Group, I	nc.		Date Collected	: 04/09	9/25		С
Project:		Forr	mer Schlumb	erger STC PT(C Site D3868221		Date Received	: 04/09	9/25		D
Client Sa	ample ID:	S-87	74-K1-SO-1.	0-1.5-040925			SDG No.:	Q176	59		
Lab Sam	ple ID:	Q17	769-03				Matrix:	SOII	2		
Level (lo	w/med):	low					% Solid:	61.8			
Cas	Parameter	Conc.	Qua. DF	MDL	LOQ / CRQL	Units(Dry W	Veigh P)rep Date	Date Ana.	Ana Met.	Prep Met.	
7440-22-4	Silver	37.2	DN 5	0.092	0.35	mg/Kg	04/10/25 13:05	04/11/25 14:24	6020B	SW3050	•

Color Before:	Black	Clarity Before:	Texture: Medium					
Color After:	Yellow	Clarity After:	Artifacts:					
Comments:	Metals Group4							
U = Not Detec	eted		J = Estimated Value					
LOQ = Limit c	of Quantitation		B = Analyte Found in Associated Method Blank					
MDL = Metho	d Detection Limit		* = indicates the duplicate analysis is not within control limits.					
LOD = Limit o	of Detection		E = Indicates the reported value is estimated because of the presence					
D = Dilution			of interference.					
Q = indicates I	LCS control criteria did not meet	requirements	OR = Over Range					
			N =Spiked sample recovery not within control limits					
1769			11 of 18	Revise				



						liarysis					
Client:		JACOI	BS Engined	ering Group, I	nc.		Date Collected	: 04/09	9/25		С
Project:		Former	r Schlumbe	erger STC PT	C Site D3868221		Date Received	: 04/09	9/25		D
Client Sa	ample ID:	S-874-	K1-SO-1.0	-1.5-040925-	FD		SDG No.:	Q176	59		
Lab Sam	ple ID:	Q1769	-04				Matrix:	SOII	_		
Level (lo	ow/med):	low					% Solid:	62.7			
Cas	Parameter	Conc. (Qua. DF	MDL	LOQ / CRQL	Units(Dry W	eigh f) rep Date	Date Ana.	Ana Met.	Prep Met.	_
7440-22-4	Silver	44.6	DN 5	0.096	0.37	mg/Kg	04/10/25 13:05	04/11/25 14:27	6020B	SW3050	•

Color Before:	Black	Clarity Before:	Texture: Medium				
Color After:	Yellow	Clarity After:	Artifacts:				
Comments:	Metals Group4						
U = Not Deter	cted		J = Estimated Value				
LOQ = Limit	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				
			of interference.				
D = Dilution			OR = Over Range				
	LCS control criteria did not	meet requirements	OR = Over Range				



					Report of Al	lalysis					В
Client:		JAC	COBS Engi	neering Gro	oup, Inc.	Date Collected	: 04/09	9/25		C	
Project:		For	mer Schlur	nberger ST(C PTC Site D3868221	Date Received	: 04/09	9/25		D	
Client Sa	ample ID:	EBO	01-040925				SDG No.:	Q176	59		
Lab Sam	ple ID:	Q17	769-08				Matrix:	Wate	r		
Level (lo	ow/med):	low					% Solid:	0			J
Cas	Parameter	Conc.	Qua. D	F MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.	
7440-22-4	Silver	0.060	U 1	0.060	1.00	ug/L	05/05/25 11:20	05/13/25 16:55	6020B	3010A	

MDL = Meth $LOD = Limit$ $D = Dilution$	t of Quantitation nod Detection Limit t of Detection	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	
Comments:	Metals Group4				
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Color Before:	Colorless	Clarity Before:	Clear	Texture:	



					Report of A	liaiysis				В			
Client:		JAC	OBS Engine	ering Group,	Date Collected	Date Collected: 04/09/25							
Project:	Project: Former Schlumberger STC PTC Site D3868221						Date Received: 04/09/25						
Client S	Client Sample ID: S-873-K1-SO-1.0-1.5-040925						SDG No.:	Q1769					
Lab Sar	nple ID:	Q17	Q1769-09					SOIL	SOIL				
Level (1	ow/med):	low					% Solid:	67.5		J			
Cas	Parameter	Conc.	Qua. DF	MDL	LOQ / CRQL	Units(Dry V	Veigh P)rep Date	Date Ana. Ana Met	t. Prep Met.				
7440-22-4	Silver	13.7	DN 5	0.093	0.36	mg/Kg	04/10/25 13:05	04/11/25 14:31 6020B	SW3050				

Color Before:	Black	Clarity Before:	Texture: Medium							
Color After: Yellow Clarity After:			Artifacts:							
Comments:	Metals Group4									
U = Not Determined			J = Estimated Value							
	of Quantitation		B = Analyte Found in Associated Method Blank							
MDI – Moth	od Detection Limit		* = indicates the duplicate analysis is not within control limits.							
MDL – Metho			E = Indicates the reported value is estimated because of the presence							
LOD = Limit	of Detection		E = Indicates the reported value is estimated because of the presence							
	of Detection		E = Indicates the reported value is estimated because of the presence of interference.							
LOD = Limit D = Dilution	of Detection LCS control criteria did not meet re	quirements								



Α

С

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LAB CHRONICLE

OrderID: Client: Contact:	Q1769 JACOBS Engineering Group, In John Ynfante	с.		OrderDate: Project: Location:	4/9/2025 4:31:0 Former Schlum L31		TC Site D38682	221
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1769-02	S-875-K1-SO-1.0-1.5- 040925	SOIL			04/09/25			04/09/25
			Metals Group4	6020B		04/10/25	04/11/25	
Q1769-03	S-874-K1-SO-1.0-1.5- 040925	SOIL			04/09/25			04/09/25
			Metals Group4	6020B		04/10/25	04/11/25	
Q1769-04	S-874-K1-SO-1.0-1.5- 040925-FD	SOIL			04/09/25			04/09/25
			Metals Group4	6020B		04/10/25	04/11/25	
Q1769-08	EB01-040925	Water			04/09/25			04/09/25
			Metals Group4	6020B		05/05/25	05/13/25	
Q1769-09	S-873-K1-SO-1.0-1.5- 040925	SOIL			04/09/25			04/09/25
			Metals Group4	6020B		04/10/25	04/11/25	



<u>SHIPPING</u> DOCUMENTS

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

ALLIANCE PROJECT NO. Q1769 QUOTE NO.

^{COC Number} 2046604

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6.1

CLIENT INFORMATION			CLIENT PROJECT INFORMATION						CLIENT BILLING INFORMATION										
COMPANY	COMPANY: Jacobs			PROJECT NAME: STC PTC						BILL TO: Mary Murphy PO#:									
ADDRESS:	PROJECT NO .: 53818221 LOCATION: Princhen Junchoin AD							ADDF	ADDRESS:										
CITY MOUN	CITY MONISHUM STATE: NJ ZIP: 07460				PROJECT MANAGER: Mary Murphy						<u>CITY</u> S				STA	TE: ZIP:			
ATTENTION:	ATTENTION: John Jufante John. Yntante@Jacobs.com				e-mail: Mary. Murphy @ Jacobs. win						ATTENTION: PH					PHC	DNE:		
PHONE:					PHONE: FAX:										AN	ALYSIS	S		
the second se	DATA TURNAROUND INFORMATION																		
HARDCOPY (D EDD: *TO BE APPRO	FAX (RUSH) Standard DAYS* HARDCOPY (DATA PACKAGE): DAYS* EDD: DAYS* *TO BE APPROVED BY CHEMTECH			DATA DELIVERABLE INFORMATION DATA DELIVERABLE INFORMATION Level 1 (Results Only) Level 4 (QC + Full Raw Data) Level 2 (Results + QC) NJ Reduced US EPA CLP Level 3 (Results + QC) NYS ASP A NYS ASP B + Raw Data) Other 1 EDD FORMAT 1 2															
STANDARD RA	ARDCOPY TURNAROUND TIME IS 10 BUSINESS		ISAM	_	SAL	MPLE	1 53			Í		SERVA					COMMENTS		
ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	TY			TIME	# OF BOTTLES	E	E 2	B/E 3	4	5	6	7	8	9	← Specify Preservatives A-HCI D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER		
1.	S-878-K1-SO-1.0-1.5-040925	50	X		4/4/25	1005	1	\checkmark	1								HOLD !!		
2.	S-875-K1-50-1.0-1.5-040925	50	X		4/4/25	1	1	\checkmark	1								HOLD SPLP!		
3.	5-874-K1-50-1.0-1.5-040925	SO	X		4/4/25	1100	1	\checkmark	/								HOLD SPLP!		
4.	5-874-K1-50-1.0-1.5-04/0925-FD	50	X		4/9/25	1105	1	/	1								HOLD SPLP!		
5.	5-877-K1-50-1.0-1.5-040925	50	\times		4/9/25	1235	1	~	/								HOLD!!		
6.	5-873-K1-50-1.0-1.5-040925	SO	X		4/9/25	1255	93	\checkmark	\checkmark								MS/MSD . HOLD SPLP!		
7.	5- 876- KI-50-1.0-1.5-040925	SO	X		4/4/25		1		\checkmark								HOLD!!		
8.	EB01-040925	DI	×	X	4/4/25	1420	1			\checkmark									
9.																			
10.				0117	E A QUI TI				DOOO	50010			0.0115						
RELINQUISHED E 1. RELINQUISHED E 2. RELINQUISHED E 3. 3. 3. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	4-9-25 BY SAMPLER: DATE/TIME: THE ETVED BY: 2.	\frown	_	7-	7 Condition	nts: Hall d cultur MP.	or coolers all s samp 3.3	e fur	nalysis s-87 AZ	DMPLIANT 76, 5- DUS J	-877	S-8 J F	NT DO 78	_	EMP)Ţ	3°c <u>R Gun #1.</u> Shipment Complete □ YES □ NO		
Q1769	WHITE - ALLIANO	COPY FO	R RETU	IRN TO	O CLIENT	YELLO 17 of		NCE COF	PΥ	PINK - S	SAMPLEP	COPY					Rev		



Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488