

LAB CHRONICLE

OrderID:	P3671	OrderDate:	8/20/2024 10:36:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	G11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3671-01	S-904-J-SO-0-0.5-081 924	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	
P3671-02	S-904-J-SO-0.5-1.0-0 81924	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	
P3671-03	S-911-K1-SO-0-0.5-08 1924	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	
P3671-04	S-911-K1-SO-0.5-1-08 1924	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	
P3671-05	S-911-K1-SO-0-0.5-08 1924-FD	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	
P3671-06	S-905-KJ-SO-0-0.5-08 1924	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	
P3671-07	S-905-KJ-SO-0-0.5-08 1924-FD	SOIL			08/19/24			08/19/24
			Mercury	7471B		08/23/24	08/24/24	
			Metals Group4	6020B		08/21/24	08/25/24	

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P3671-08	S-905-J-SO-0.5-1.0-0 81924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	
P3671-09	S-928-K1-SO-0-0.5-08 1924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	
P3671-10	S-928-K1-SO-0.5-1-08 1924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	
P3671-11	S-903-J-SO-0-0.5-081 924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	
P3671-12	S-903-J-SO-0.5-1.0-0 81924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	
P3671-13	S-912-J-SO-0-0.5-081 924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	
P3671-14	S-912-J-SO-0.5-1-081 924	SOIL			08/19/24		08/19/24
			Mercury	7471B	08/23/24	08/24/24	
			Metals Group4	6020B	08/21/24	08/25/24	

Hit Summary Sheet SW-846

SDG No.: P3671 **Order ID:** P3671
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 : S-904-J-SO-0-0.5-081924								
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Aluminum	7680		0.53	1.91	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Antimony	0.32		0.010	0.19	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Arsenic	4.27		0.0090	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Barium	56.2		0.035	0.95	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Beryllium	0.59		0.024	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Cadmium	1.01		0.026	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Calcium	6250		6.44	47.7	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Chromium	25.8		0.023	0.19	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Cobalt	19.6		0.0080	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Copper	102		0.053	0.19	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Iron	15000		1.06	4.77	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Lead	94.2		0.014	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Magnesium	2000		2.58	47.7	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Manganese	310		0.032	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Nickel	39.7		0.015	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Mercury	0.51		0.0080	0.018	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Potassium	416		3.80	47.7	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Selenium	0.52		0.11	0.48	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Silver	1.56		0.025	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Sodium	398		5.83	47.7	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Thallium	0.10		0.010	0.095	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Vanadium	26.9		0.0080	0.48	mg/Kg
P3671-01	S-904-J-SO-0-0.5-081924	SOIL	Zinc	165		0.12	0.48	mg/Kg
Client ID : S-904-J-SO-0.5-1.0-081924								
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Aluminum	11000	D	2.41	8.59	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Antimony	0.24		0.0090	0.17	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Arsenic	5.33	D	0.039	0.43	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Barium	67.5		0.032	0.86	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Beryllium	0.76		0.021	0.086	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Cadmium	1.51		0.023	0.086	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Calcium	5560		5.80	43.0	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Chromium	34.2		0.021	0.17	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Cobalt	23.9		0.0070	0.086	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Copper	124		0.048	0.17	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Iron	20300		0.95	4.30	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Lead	130		0.013	0.086	mg/Kg
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Magnesium	2780		2.32	43.0	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671

Order ID: P3671

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Manganese	276	JD	0.029	0.086	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Nickel	47.4		0.014	0.086	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Mercury	0.27		0.0070	0.017	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Potassium	600		3.42	43.0	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Selenium	0.82		0.52	2.15	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Silver	1.93		0.022	0.086	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Sodium	386		5.25	43.0	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Thallium	0.13		0.0090	0.086	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Vanadium	39.9		0.0070	0.43	mg/Kg	
P3671-02	S-904-J-SO-0.5-1.0-081924	SOIL	Zinc	199		0.11	0.43	mg/Kg	
Client ID : S-911-K1-SO-0-0.5-081924									
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Aluminum	5060	J	0.82	2.94	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Antimony	0.47		0.015	0.29	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Arsenic	2.77		0.013	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Barium	74.1		0.054	1.47	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Beryllium	0.45		0.037	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Cadmium	0.38		0.040	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Calcium	2420		9.93	73.5	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Chromium	10.3		0.035	0.29	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Cobalt	0.78		0.012	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Copper	23.7		0.082	0.29	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Iron	3000		1.63	7.35	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Lead	49.0		0.022	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Magnesium	442		3.97	73.5	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Manganese	250		0.050	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Nickel	5.92		0.024	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Mercury	0.072		0.013	0.030	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Potassium	152		5.85	73.5	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Selenium	1.21		0.18	0.74	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Silver	0.73		0.038	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Sodium	721		8.98	73.5	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Thallium	0.049		0.015	0.15	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Vanadium	7.73		0.012	0.74	mg/Kg	
P3671-03	S-911-K1-SO-0-0.5-081924	SOIL	Zinc	40.1			0.19	0.74	mg/Kg
Client ID : S-911-K1-SO-0.5-1-081924									
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Aluminum	7610	D	0.83	2.98	mg/Kg	
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Antimony	1.90		0.015	0.30	mg/Kg	
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Arsenic	10.7		0.067	0.74	mg/Kg	
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Barium	184		0.055	1.49	mg/Kg	

Hit Summary Sheet
SW-846

SDG No.: P3671

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Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Beryllium	0.74		0.037	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Cadmium	1.07		0.040	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Calcium	4220		10.0	74.4	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Chromium	17.9		0.036	0.30	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Cobalt	6.88		0.012	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Copper	62.2		0.083	0.30	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Iron	13800		1.65	7.44	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Lead	189		0.022	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Magnesium	1180		4.02	74.4	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Manganese	2710	D	0.25	0.74	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Nickel	14.2		0.024	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Mercury	0.12		0.011	0.024	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Potassium	402		5.92	74.4	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Selenium	2.18	JD	0.89	3.72	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Silver	3.99		0.039	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Sodium	846		9.09	74.4	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Thallium	0.20		0.015	0.15	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Vanadium	31.9		0.012	0.74	mg/Kg
P3671-04	S-911-K1-SO-0.5-1-081924	SOIL	Zinc	127		0.19	0.74	mg/Kg

Client ID : S-911-K1-SO-0-0.5-081924-FD

P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Aluminum	9270		1.11	3.97	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Antimony	2.37		0.020	0.40	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Arsenic	12.3		0.018	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Barium	185		0.073	1.98	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Beryllium	0.84		0.050	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Cadmium	1.04		0.054	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Calcium	4770		13.4	99.2	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Chromium	20.7		0.048	0.40	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Cobalt	5.55		0.016	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Copper	81.5		0.11	0.40	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Iron	15000		2.20	9.92	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Lead	226		0.030	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Magnesium	1270		5.36	99.2	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Manganese	1700		0.067	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Nickel	16.1		0.032	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Mercury	0.37		0.017	0.038	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Potassium	441		7.90	99.2	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Selenium	3.70	JD	1.19	4.96	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Silver	4.60		0.052	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Sodium	1180		12.1	99.2	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671

Order ID: P3671

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Thallium	0.20		0.020	0.20	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Vanadium	39.6		0.016	0.99	mg/Kg
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SOIL	Zinc	122		0.26	0.99	mg/Kg
Client ID : S-905-KJ-SO-0-0.5-081924								
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Aluminum	7210		0.49	1.75	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Antimony	0.16	J	0.0090	0.18	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Arsenic	4.35		0.0080	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Barium	48.8		0.032	0.88	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Beryllium	0.50		0.022	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Cadmium	0.49		0.024	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Calcium	4120		5.91	43.8	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Chromium	17.3		0.021	0.18	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Cobalt	3.38		0.0070	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Copper	69.4		0.049	0.18	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Iron	20400		0.97	4.38	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Lead	58.9		0.013	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Magnesium	1030		2.36	43.8	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Manganese	112		0.030	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Nickel	8.43		0.014	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Mercury	1.78	D	0.035	0.079	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Potassium	324		3.49	43.8	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Selenium	0.43	J	0.11	0.44	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Silver	1.46		0.023	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Sodium	248		5.35	43.8	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Thallium	0.11		0.0090	0.088	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Vanadium	20.9		0.0070	0.44	mg/Kg
P3671-06	S-905-KJ-SO-0-0.5-081924	SOIL	Zinc	131		0.11	0.44	mg/Kg
Client ID : S-905-KJ-SO-0-0.5-081924-FD								
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Aluminum	11600	D	2.49	8.88	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Antimony	0.17	J	0.0090	0.18	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Arsenic	6.06	D	0.040	0.44	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Barium	70.0		0.033	0.89	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Beryllium	0.76		0.022	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Cadmium	0.60		0.024	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Calcium	5710		5.99	44.4	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Chromium	21.9		0.021	0.18	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Cobalt	5.40		0.0070	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Copper	89.9		0.050	0.18	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Iron	16100		0.99	4.44	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671

Order ID: P3671

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Lead	70.3		0.013	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Magnesium	1650		2.40	44.4	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Manganese	130		0.030	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Nickel	11.7		0.014	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Mercury	1.44	D	0.035	0.079	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Potassium	414		3.53	44.4	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Selenium	0.87	JD	0.53	2.22	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Silver	1.39		0.023	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Sodium	383		5.43	44.4	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Thallium	0.17		0.0090	0.089	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Vanadium	29.1		0.0070	0.44	mg/Kg
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SOIL	Zinc	103		0.12	0.44	mg/Kg

Client ID : S-905-J-SO-0.5-1.0-081924

P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Aluminum	12300	D	2.63	9.38	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Antimony	0.11	J	0.0090	0.19	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Arsenic	6.34	D	0.042	0.47	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Barium	70.2		0.035	0.94	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Beryllium	0.92		0.023	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Cadmium	0.55		0.025	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Calcium	3620		6.33	46.9	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Chromium	19.8		0.023	0.19	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Cobalt	11.8		0.0080	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Copper	94.7		0.053	0.19	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Iron	18000		1.04	4.69	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Lead	61.3		0.014	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Magnesium	1510		2.53	46.9	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Manganese	111		0.032	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Nickel	23.7		0.015	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Mercury	3.41	D	0.070	0.16	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Potassium	402		3.73	46.9	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Selenium	0.76	JD	0.56	2.35	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Silver	1.70		0.024	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Sodium	319		5.73	46.9	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Thallium	0.17		0.0090	0.094	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Vanadium	31.2		0.0080	0.47	mg/Kg
P3671-08	S-905-J-SO-0.5-1.0-081924	SOIL	Zinc	93.5		0.12	0.47	mg/Kg

Client ID : S-928-K1-SO-0-0.5-081924

P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Aluminum	9990		0.88	3.13	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Antimony	1.20		0.016	0.31	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671

Order ID: P3671

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Arsenic	13.3	D	0.070	0.78	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Barium	191		0.058	1.57	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Beryllium	1.07		0.039	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Cadmium	1.28		0.042	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Calcium	4050		10.6	78.3	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Chromium	20.7		0.038	0.31	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Cobalt	7.48		0.013	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Copper	63.5		0.088	0.31	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Iron	15100		1.74	7.83	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Lead	195		0.023	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Magnesium	1310		4.23	78.3	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Manganese	2130	D	0.27	0.78	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Nickel	14.8		0.025	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Mercury	0.087		0.012	0.027	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Potassium	501		6.23	78.3	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Selenium	2.10	JD	0.94	3.92	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Silver	6.51		0.041	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Sodium	760		9.57	78.3	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Thallium	0.17		0.016	0.16	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Vanadium	31.2		0.013	0.78	mg/Kg
P3671-09	S-928-K1-SO-0-0.5-081924	SOIL	Zinc	159		0.20	0.78	mg/Kg
Client ID : S-928-K1-SO-0.5-1-081924								
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Aluminum	11100		0.69	2.48	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Antimony	0.86		0.012	0.25	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Arsenic	11.7	D	0.056	0.62	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Barium	177		0.046	1.24	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Beryllium	0.99		0.031	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Cadmium	1.18		0.033	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Calcium	3790		8.37	62.0	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Chromium	24.0		0.030	0.25	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Cobalt	8.82		0.010	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Copper	51.4		0.069	0.25	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Iron	16700		1.38	6.20	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Lead	128		0.019	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Magnesium	1770		3.35	62.0	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Manganese	2640	D	0.21	0.62	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Nickel	14.6		0.020	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Mercury	0.092		0.0090	0.021	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Potassium	596		4.93	62.0	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Selenium	1.55	JD	0.74	3.10	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671

Order ID: P3671

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Silver	3.73		0.032	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Sodium	629		7.58	62.0	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Thallium	0.19		0.012	0.12	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Vanadium	32.6		0.010	0.62	mg/Kg
P3671-10	S-928-K1-SO-0.5-1-081924	SOIL	Zinc	173		0.16	0.62	mg/Kg
Client ID : S-903-J-SO-0.5-081924								
P3671-11	S-903-J-SO-0.5-081924	SOIL	Aluminum	10900	D	2.60	9.28	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Antimony	0.25		0.0090	0.19	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Arsenic	6.19		0.0080	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Barium	60.4		0.034	0.93	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Beryllium	0.55		0.023	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Cadmium	1.21		0.025	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Calcium	6890		6.27	46.4	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Chromium	21.0		0.022	0.19	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Cobalt	12.9		0.0070	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Copper	139		0.052	0.19	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Iron	19600		1.03	4.64	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Lead	92.4		0.014	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Magnesium	4190		2.51	46.4	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Manganese	285		0.032	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Nickel	18.8		0.015	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Mercury	0.14		0.0070	0.015	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Potassium	528		3.69	46.4	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Selenium	0.46	J	0.11	0.46	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Silver	4.17		0.024	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Sodium	376		5.67	46.4	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Thallium	0.099		0.0090	0.093	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Vanadium	34.8		0.0070	0.46	mg/Kg
P3671-11	S-903-J-SO-0.5-081924	SOIL	Zinc	145		0.12	0.46	mg/Kg
Client ID : S-903-J-SO-0.5-1.0-081924								
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Aluminum	12400	D	2.33	8.33	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Antimony	0.18		0.0080	0.17	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Arsenic	8.52		0.0070	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Barium	53.6		0.031	0.83	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Beryllium	0.43		0.021	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Cadmium	2.44		0.022	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Calcium	6500		5.62	41.6	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Chromium	22.3		0.020	0.17	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Cobalt	14.6		0.0070	0.083	mg/Kg

Hit Summary Sheet
SW-846

SDG No.: P3671

Order ID: P3671

Client: JACOBS Engineering Group, Inc.

Project ID: Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Copper	235		0.047	0.17	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Iron	23600	D	4.62	20.8	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Lead	107		0.012	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Magnesium	5650		2.25	41.6	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Manganese	258		0.028	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Nickel	23.0		0.013	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Mercury	0.39		0.0070	0.016	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Potassium	486		3.31	41.6	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Selenium	0.62		0.10	0.42	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Silver	4.65		0.022	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Sodium	533		5.09	41.6	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Thallium	0.088		0.0080	0.083	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Vanadium	42.7		0.0070	0.42	mg/Kg
P3671-12	S-903-J-SO-0.5-1.0-081924	SOIL	Zinc	216		0.11	0.42	mg/Kg

Client ID : S-912-J-SO-0.5-081924

P3671-13	S-912-J-SO-0.5-081924	SOIL	Aluminum	5260		1.30	4.64	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Antimony	3.30		0.023	0.46	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Arsenic	21.1		0.021	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Barium	181		0.086	2.32	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Beryllium	0.65		0.058	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Cadmium	0.89		0.063	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Calcium	9590		15.6	116	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Chromium	19.3		0.056	0.46	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Cobalt	3.46		0.019	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Copper	76.1		0.13	0.46	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Iron	18000		2.57	11.6	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Lead	294		0.035	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Magnesium	1460		6.26	116	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Manganese	2040		0.079	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Nickel	12.7		0.037	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Mercury	0.45		0.020	0.045	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Potassium	466		9.22	116	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Selenium	3.64		0.28	1.16	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Silver	1.56		0.060	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Sodium	2800		14.2	116	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Thallium	0.15	J	0.023	0.23	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Vanadium	50.9		0.019	1.16	mg/Kg
P3671-13	S-912-J-SO-0.5-081924	SOIL	Zinc	67.1		0.30	1.16	mg/Kg

Client ID : S-912-J-SO-0.5-1-081924

Hit Summary Sheet
SW-846

SDG No.:	P3671	Order ID:	P3671
Client:	JACOBS Engineering Group, Inc.	Project ID:	Former Schlumberger Site Princeton NJ

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Aluminum	4900		0.79	2.83	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Antimony	0.26	J	0.014	0.28	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Arsenic	3.60		0.013	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Barium	77.7		0.052	1.42	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Beryllium	0.42		0.035	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Cadmium	0.26		0.038	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Calcium	3140		9.57	70.9	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Chromium	11.5		0.034	0.28	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Cobalt	0.68		0.011	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Copper	20.7		0.079	0.28	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Iron	3320		1.57	7.09	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Lead	52.1		0.021	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Magnesium	557		3.83	70.9	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Manganese	766		0.048	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Nickel	4.59		0.023	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Mercury	0.046		0.011	0.025	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Potassium	250		5.64	70.9	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Selenium	0.99		0.17	0.71	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Silver	0.13	J	0.037	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Sodium	1010		8.66	70.9	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Thallium	0.060	J	0.014	0.14	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Vanadium	9.59		0.011	0.71	mg/Kg
P3671-14	S-912-J-SO-0.5-1-081924	SOIL	Zinc	22.8		0.18	0.71	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	71.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7680	N	1	0.53	1.91	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-36-0	Antimony	0.32		1	0.010	0.19	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-38-2	Arsenic	4.27		1	0.0090	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-39-3	Barium	56.2		1	0.035	0.95	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-41-7	Beryllium	0.59		1	0.024	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-43-9	Cadmium	1.01		1	0.026	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-70-2	Calcium	6250		1	6.44	47.7	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-47-3	Chromium	25.8		1	0.023	0.19	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-48-4	Cobalt	19.6		1	0.0080	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-50-8	Copper	102		1	0.053	0.19	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7439-89-6	Iron	15000		1	1.06	4.77	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7439-92-1	Lead	94.2		1	0.014	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7439-95-4	Magnesium	2000		1	2.58	47.7	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7439-96-5	Manganese	310		1	0.032	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7439-97-6	Mercury	0.51	N	1	0.0080	0.018	mg/Kg	08/23/24 14:30	08/24/24 11:10	SW7471B	
7440-02-0	Nickel	39.7		1	0.015	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-09-7	Potassium	416		1	3.80	47.7	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7782-49-2	Selenium	0.52		1	0.11	0.48	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-22-4	Silver	1.56	N	1	0.025	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-23-5	Sodium	398		1	5.83	47.7	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-28-0	Thallium	0.10		1	0.010	0.095	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-62-2	Vanadium	26.9		1	0.0080	0.48	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050
7440-66-6	Zinc	165		1	0.12	0.48	mg/Kg	08/21/24 11:00	08/25/24 21:29	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-904-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	79.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11000	DN	5	2.41	8.59	mg/Kg	08/21/24 11:00	08/25/24 21:38	SW6020	SW3050
7440-36-0	Antimony	0.24		1	0.0090	0.17	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-38-2	Arsenic	5.33	D	5	0.039	0.43	mg/Kg	08/21/24 11:00	08/25/24 21:38	SW6020	SW3050
7440-39-3	Barium	67.5		1	0.032	0.86	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-41-7	Beryllium	0.76		1	0.021	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-43-9	Cadmium	1.51		1	0.023	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-70-2	Calcium	5560		1	5.80	43.0	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-47-3	Chromium	34.2		1	0.021	0.17	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-48-4	Cobalt	23.9		1	0.0070	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-50-8	Copper	124		1	0.048	0.17	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7439-89-6	Iron	20300		1	0.95	4.30	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7439-92-1	Lead	130		1	0.013	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7439-95-4	Magnesium	2780		1	2.32	43.0	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7439-96-5	Manganese	276		1	0.029	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7439-97-6	Mercury	0.27	N	1	0.0070	0.017	mg/Kg	08/23/24 14:30	08/24/24 11:24	SW7471B	
7440-02-0	Nickel	47.4		1	0.014	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-09-7	Potassium	600		1	3.42	43.0	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7782-49-2	Selenium	0.82	JD	5	0.52	2.15	mg/Kg	08/21/24 11:00	08/25/24 21:38	SW6020	SW3050
7440-22-4	Silver	1.93	N	1	0.022	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-23-5	Sodium	386		1	5.25	43.0	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-28-0	Thallium	0.13		1	0.0090	0.086	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-62-2	Vanadium	39.9		1	0.0070	0.43	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050
7440-66-6	Zinc	199		1	0.11	0.43	mg/Kg	08/21/24 11:00	08/25/24 21:35	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	46.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5060	N	1	0.82	2.94	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-36-0	Antimony	0.47		1	0.015	0.29	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-38-2	Arsenic	2.77		1	0.013	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-39-3	Barium	74.1		1	0.054	1.47	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-41-7	Beryllium	0.45		1	0.037	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-43-9	Cadmium	0.38		1	0.040	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-70-2	Calcium	2420		1	9.93	73.5	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-47-3	Chromium	10.3		1	0.035	0.29	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-48-4	Cobalt	0.78		1	0.012	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-50-8	Copper	23.7		1	0.082	0.29	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7439-89-6	Iron	3000		1	1.63	7.35	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7439-92-1	Lead	49.0		1	0.022	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7439-95-4	Magnesium	442		1	3.97	73.5	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7439-96-5	Manganese	250		1	0.050	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7439-97-6	Mercury	0.072	N	1	0.013	0.030	mg/Kg	08/23/24 14:30	08/24/24 11:26	SW7471B	
7440-02-0	Nickel	5.92		1	0.024	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-09-7	Potassium	152		1	5.85	73.5	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7782-49-2	Selenium	1.21		1	0.18	0.74	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-22-4	Silver	0.73	N	1	0.038	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-23-5	Sodium	721		1	8.98	73.5	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-28-0	Thallium	0.049	J	1	0.015	0.15	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-62-2	Vanadium	7.73		1	0.012	0.74	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050
7440-66-6	Zinc	40.1		1	0.19	0.74	mg/Kg	08/21/24 11:00	08/25/24 21:41	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-04	Matrix:	SOIL
Level (low/med):	low	% Solid:	56

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7610	N	1	0.83	2.98	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-36-0	Antimony	1.90		1	0.015	0.30	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-38-2	Arsenic	10.7	D	5	0.067	0.74	mg/Kg	08/21/24 11:00	08/25/24 22:03	SW6020	SW3050
7440-39-3	Barium	184		1	0.055	1.49	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-41-7	Beryllium	0.74		1	0.037	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-43-9	Cadmium	1.07		1	0.040	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-70-2	Calcium	4220		1	10.0	74.4	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-47-3	Chromium	17.9		1	0.036	0.30	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-48-4	Cobalt	6.88		1	0.012	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-50-8	Copper	62.2		1	0.083	0.30	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7439-89-6	Iron	13800		1	1.65	7.44	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7439-92-1	Lead	189		1	0.022	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7439-95-4	Magnesium	1180		1	4.02	74.4	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7439-96-5	Manganese	2710	D	5	0.25	0.74	mg/Kg	08/21/24 11:00	08/25/24 22:03	SW6020	SW3050
7439-97-6	Mercury	0.12	N	1	0.011	0.024	mg/Kg	08/23/24 14:30	08/24/24 11:28	SW7471B	
7440-02-0	Nickel	14.2		1	0.024	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-09-7	Potassium	402		1	5.92	74.4	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7782-49-2	Selenium	2.18	JD	5	0.89	3.72	mg/Kg	08/21/24 11:00	08/25/24 22:03	SW6020	SW3050
7440-22-4	Silver	3.99	N	1	0.039	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-23-5	Sodium	846		1	9.09	74.4	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-28-0	Thallium	0.20		1	0.015	0.15	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-62-2	Vanadium	31.9		1	0.012	0.74	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050
7440-66-6	Zinc	127		1	0.19	0.74	mg/Kg	08/21/24 11:00	08/25/24 22:00	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-911-K1-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-05	Matrix:	SOIL
Level (low/med):	low	% Solid:	35

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9270	N	1	1.11	3.97	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-36-0	Antimony	2.37		1	0.020	0.40	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-38-2	Arsenic	12.3		1	0.018	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-39-3	Barium	185		1	0.073	1.98	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-41-7	Beryllium	0.84		1	0.050	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-43-9	Cadmium	1.04		1	0.054	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-70-2	Calcium	4770		1	13.4	99.2	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-47-3	Chromium	20.7		1	0.048	0.40	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-48-4	Cobalt	5.55		1	0.016	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-50-8	Copper	81.5		1	0.11	0.40	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7439-89-6	Iron	15000		1	2.20	9.92	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7439-92-1	Lead	226		1	0.030	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7439-95-4	Magnesium	1270		1	5.36	99.2	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7439-96-5	Manganese	1700		1	0.067	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7439-97-6	Mercury	0.37	N	1	0.017	0.038	mg/Kg	08/23/24 14:30	08/24/24 11:31	SW7471B	
7440-02-0	Nickel	16.1		1	0.032	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-09-7	Potassium	441		1	7.90	99.2	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7782-49-2	Selenium	3.70	JD	5	1.19	4.96	mg/Kg	08/21/24 11:00	08/25/24 22:09	SW6020	SW3050
7440-22-4	Silver	4.60	N	1	0.052	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-23-5	Sodium	1180		1	12.1	99.2	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-28-0	Thallium	0.20		1	0.020	0.20	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-62-2	Vanadium	39.6		1	0.016	0.99	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050
7440-66-6	Zinc	122		1	0.26	0.99	mg/Kg	08/21/24 11:00	08/25/24 22:06	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-06	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	7210	N	1	0.49	1.75	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-36-0	Antimony	0.16	J	1	0.0090	0.18	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-38-2	Arsenic	4.35		1	0.0080	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-39-3	Barium	48.8		1	0.032	0.88	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-41-7	Beryllium	0.50		1	0.022	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-43-9	Cadmium	0.49		1	0.024	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-70-2	Calcium	4120		1	5.91	43.8	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-47-3	Chromium	17.3		1	0.021	0.18	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-48-4	Cobalt	3.38		1	0.0070	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-50-8	Copper	69.4		1	0.049	0.18	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7439-89-6	Iron	20400		1	0.97	4.38	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7439-92-1	Lead	58.9		1	0.013	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7439-95-4	Magnesium	1030		1	2.36	43.8	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7439-96-5	Manganese	112		1	0.030	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7439-97-6	Mercury	1.78	DN	5	0.035	0.079	mg/Kg	08/23/24 14:30	08/24/24 13:45	SW7471B	
7440-02-0	Nickel	8.43		1	0.014	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-09-7	Potassium	324		1	3.49	43.8	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7782-49-2	Selenium	0.43	J	1	0.11	0.44	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-22-4	Silver	1.46	N	1	0.023	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-23-5	Sodium	248		1	5.35	43.8	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-28-0	Thallium	0.11		1	0.0090	0.088	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-62-2	Vanadium	20.9		1	0.0070	0.44	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050
7440-66-6	Zinc	131		1	0.11	0.44	mg/Kg	08/21/24 11:00	08/25/24 22:12	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-KJ-SO-0-0.5-081924-FD	SDG No.:	P3671
Lab Sample ID:	P3671-07	Matrix:	SOIL
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11600	DN	5	2.49	8.88	mg/Kg	08/21/24 11:00	08/25/24 22:22	SW6020	SW3050
7440-36-0	Antimony	0.17	J	1	0.0090	0.18	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-38-2	Arsenic	6.06	D	5	0.040	0.44	mg/Kg	08/21/24 11:00	08/25/24 22:22	SW6020	SW3050
7440-39-3	Barium	70.0		1	0.033	0.89	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-41-7	Beryllium	0.76		1	0.022	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-43-9	Cadmium	0.60		1	0.024	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-70-2	Calcium	5710		1	5.99	44.4	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-47-3	Chromium	21.9		1	0.021	0.18	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-48-4	Cobalt	5.40		1	0.0070	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-50-8	Copper	89.9		1	0.050	0.18	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7439-89-6	Iron	16100		1	0.99	4.44	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7439-92-1	Lead	70.3		1	0.013	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7439-95-4	Magnesium	1650		1	2.40	44.4	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7439-96-5	Manganese	130		1	0.030	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7439-97-6	Mercury	1.44	DN	5	0.035	0.079	mg/Kg	08/23/24 14:30	08/24/24 13:42	SW7471B	
7440-02-0	Nickel	11.7		1	0.014	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-09-7	Potassium	414		1	3.53	44.4	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7782-49-2	Selenium	0.87	JD	5	0.53	2.22	mg/Kg	08/21/24 11:00	08/25/24 22:22	SW6020	SW3050
7440-22-4	Silver	1.39	N	1	0.023	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-23-5	Sodium	383		1	5.43	44.4	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-28-0	Thallium	0.17		1	0.0090	0.089	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-62-2	Vanadium	29.1		1	0.0070	0.44	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050
7440-66-6	Zinc	103		1	0.12	0.44	mg/Kg	08/21/24 11:00	08/25/24 22:19	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-905-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-08	Matrix:	SOIL
Level (low/med):	low	% Solid:	82

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	12300	DN	5	2.63	9.38	mg/Kg	08/21/24 11:00	08/25/24 22:28	SW6020	SW3050
7440-36-0	Antimony	0.11	J	1	0.0090	0.19	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-38-2	Arsenic	6.34	D	5	0.042	0.47	mg/Kg	08/21/24 11:00	08/25/24 22:28	SW6020	SW3050
7440-39-3	Barium	70.2		1	0.035	0.94	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-41-7	Beryllium	0.92		1	0.023	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-43-9	Cadmium	0.55		1	0.025	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-70-2	Calcium	3620		1	6.33	46.9	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-47-3	Chromium	19.8		1	0.023	0.19	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-48-4	Cobalt	11.8		1	0.0080	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-50-8	Copper	94.7		1	0.053	0.19	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7439-89-6	Iron	18000		1	1.04	4.69	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7439-92-1	Lead	61.3		1	0.014	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7439-95-4	Magnesium	1510		1	2.53	46.9	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7439-96-5	Manganese	111		1	0.032	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7439-97-6	Mercury	3.41	DN	10	0.070	0.16	mg/Kg	08/23/24 14:30	08/24/24 13:47	SW7471B	
7440-02-0	Nickel	23.7		1	0.015	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-09-7	Potassium	402		1	3.73	46.9	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7782-49-2	Selenium	0.76	JD	5	0.56	2.35	mg/Kg	08/21/24 11:00	08/25/24 22:28	SW6020	SW3050
7440-22-4	Silver	1.70	N	1	0.024	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-23-5	Sodium	319		1	5.73	46.9	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-28-0	Thallium	0.17		1	0.0090	0.094	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-62-2	Vanadium	31.2		1	0.0080	0.47	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050
7440-66-6	Zinc	93.5		1	0.12	0.47	mg/Kg	08/21/24 11:00	08/25/24 22:25	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-09	Matrix:	SOIL
Level (low/med):	low	% Solid:	48

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	9990	N	1	0.88	3.13	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-36-0	Antimony	1.20		1	0.016	0.31	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-38-2	Arsenic	13.3	D	5	0.070	0.78	mg/Kg	08/21/24 11:00	08/25/24 22:57	SW6020	SW3050
7440-39-3	Barium	191		1	0.058	1.57	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-41-7	Beryllium	1.07		1	0.039	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-43-9	Cadmium	1.28		1	0.042	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-70-2	Calcium	4050		1	10.6	78.3	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-47-3	Chromium	20.7		1	0.038	0.31	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-48-4	Cobalt	7.48		1	0.013	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-50-8	Copper	63.5		1	0.088	0.31	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7439-89-6	Iron	15100		1	1.74	7.83	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7439-92-1	Lead	195		1	0.023	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7439-95-4	Magnesium	1310		1	4.23	78.3	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7439-96-5	Manganese	2130	D	5	0.27	0.78	mg/Kg	08/21/24 11:00	08/25/24 22:57	SW6020	SW3050
7439-97-6	Mercury	0.087	N	1	0.012	0.027	mg/Kg	08/23/24 14:30	08/24/24 11:40	SW7471B	
7440-02-0	Nickel	14.8		1	0.025	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-09-7	Potassium	501		1	6.23	78.3	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7782-49-2	Selenium	2.10	JD	5	0.94	3.92	mg/Kg	08/21/24 11:00	08/25/24 22:57	SW6020	SW3050
7440-22-4	Silver	6.51	N	1	0.041	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-23-5	Sodium	760		1	9.57	78.3	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-28-0	Thallium	0.17		1	0.016	0.16	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-62-2	Vanadium	31.2		1	0.013	0.78	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050
7440-66-6	Zinc	159		1	0.20	0.78	mg/Kg	08/21/24 11:00	08/25/24 22:54	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-928-K1-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-10	Matrix:	SOIL
Level (low/med):	low	% Solid:	57.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	11100	N	1	0.69	2.48	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-36-0	Antimony	0.86		1	0.012	0.25	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-38-2	Arsenic	11.7	D	5	0.056	0.62	mg/Kg	08/21/24 11:00	08/25/24 23:03	SW6020	SW3050
7440-39-3	Barium	177		1	0.046	1.24	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-41-7	Beryllium	0.99		1	0.031	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-43-9	Cadmium	1.18		1	0.033	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-70-2	Calcium	3790		1	8.37	62.0	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-47-3	Chromium	24.0		1	0.030	0.25	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-48-4	Cobalt	8.82		1	0.010	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-50-8	Copper	51.4		1	0.069	0.25	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7439-89-6	Iron	16700		1	1.38	6.20	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7439-92-1	Lead	128		1	0.019	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7439-95-4	Magnesium	1770		1	3.35	62.0	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7439-96-5	Manganese	2640	D	5	0.21	0.62	mg/Kg	08/21/24 11:00	08/25/24 23:03	SW6020	SW3050
7439-97-6	Mercury	0.092	N	1	0.0090	0.021	mg/Kg	08/23/24 14:30	08/24/24 11:48	SW7471B	
7440-02-0	Nickel	14.6		1	0.020	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-09-7	Potassium	596		1	4.93	62.0	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7782-49-2	Selenium	1.55	JD	5	0.74	3.10	mg/Kg	08/21/24 11:00	08/25/24 23:03	SW6020	SW3050
7440-22-4	Silver	3.73	N	1	0.032	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-23-5	Sodium	629		1	7.58	62.0	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-28-0	Thallium	0.19		1	0.012	0.12	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-62-2	Vanadium	32.6		1	0.010	0.62	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050
7440-66-6	Zinc	173		1	0.16	0.62	mg/Kg	08/21/24 11:00	08/25/24 23:00	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-11	Matrix:	SOIL
Level (low/med):	low	% Solid:	83.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	10900	DN	5	2.60	9.28	mg/Kg	08/21/24 11:00	08/25/24 23:09	SW6020	SW3050
7440-36-0	Antimony	0.25		1	0.0090	0.19	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-38-2	Arsenic	6.19		1	0.0080	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-39-3	Barium	60.4		1	0.034	0.93	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-41-7	Beryllium	0.55		1	0.023	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-43-9	Cadmium	1.21		1	0.025	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-70-2	Calcium	6890		1	6.27	46.4	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-47-3	Chromium	21.0		1	0.022	0.19	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-48-4	Cobalt	12.9		1	0.0070	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-50-8	Copper	139		1	0.052	0.19	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7439-89-6	Iron	19600		1	1.03	4.64	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7439-92-1	Lead	92.4		1	0.014	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7439-95-4	Magnesium	4190		1	2.51	46.4	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7439-96-5	Manganese	285		1	0.032	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7439-97-6	Mercury	0.14	N	1	0.0070	0.015	mg/Kg	08/23/24 14:30	08/24/24 11:50	SW7471B	
7440-02-0	Nickel	18.8		1	0.015	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-09-7	Potassium	528		1	3.69	46.4	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7782-49-2	Selenium	0.46	J	1	0.11	0.46	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-22-4	Silver	4.17	N	1	0.024	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-23-5	Sodium	376		1	5.67	46.4	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-28-0	Thallium	0.099		1	0.0090	0.093	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-62-2	Vanadium	34.8		1	0.0070	0.46	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050
7440-66-6	Zinc	145		1	0.12	0.46	mg/Kg	08/21/24 11:00	08/25/24 23:06	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-903-J-SO-0.5-1.0-081924	SDG No.:	P3671
Lab Sample ID:	P3671-12	Matrix:	SOIL
Level (low/med):	low	% Solid:	85.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	12400	DN	5	2.33	8.33	mg/Kg	08/21/24 11:00	08/25/24 23:15	SW6020	SW3050
7440-36-0	Antimony	0.18		1	0.0080	0.17	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-38-2	Arsenic	8.52		1	0.0070	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-39-3	Barium	53.6		1	0.031	0.83	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-41-7	Beryllium	0.43		1	0.021	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-43-9	Cadmium	2.44		1	0.022	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-70-2	Calcium	6500		1	5.62	41.6	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-47-3	Chromium	22.3		1	0.020	0.17	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-48-4	Cobalt	14.6		1	0.0070	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-50-8	Copper	235		1	0.047	0.17	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7439-89-6	Iron	23600	D	5	4.62	20.8	mg/Kg	08/21/24 11:00	08/25/24 23:15	SW6020	SW3050
7439-92-1	Lead	107		1	0.012	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7439-95-4	Magnesium	5650		1	2.25	41.6	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7439-96-5	Manganese	258		1	0.028	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7439-97-6	Mercury	0.39	N	1	0.0070	0.016	mg/Kg	08/23/24 14:30	08/24/24 11:52	SW7471B	
7440-02-0	Nickel	23.0		1	0.013	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-09-7	Potassium	486		1	3.31	41.6	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7782-49-2	Selenium	0.62		1	0.10	0.42	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-22-4	Silver	4.65	N	1	0.022	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-23-5	Sodium	533		1	5.09	41.6	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-28-0	Thallium	0.088		1	0.0080	0.083	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-62-2	Vanadium	42.7		1	0.0070	0.42	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050
7440-66-6	Zinc	216		1	0.11	0.42	mg/Kg	08/21/24 11:00	08/25/24 23:12	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0-0.5-081924	SDG No.:	P3671
Lab Sample ID:	P3671-13	Matrix:	SOIL
Level (low/med):	low	% Solid:	30.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	5260	N	1	1.30	4.64	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-36-0	Antimony	3.30		1	0.023	0.46	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-38-2	Arsenic	21.1		1	0.021	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-39-3	Barium	181		1	0.086	2.32	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-41-7	Beryllium	0.65		1	0.058	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-43-9	Cadmium	0.89		1	0.063	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-70-2	Calcium	9590		1	15.6	116	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-47-3	Chromium	19.3		1	0.056	0.46	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-48-4	Cobalt	3.46		1	0.019	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-50-8	Copper	76.1		1	0.13	0.46	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7439-89-6	Iron	18000		1	2.57	11.6	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7439-92-1	Lead	294		1	0.035	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7439-95-4	Magnesium	1460		1	6.26	116	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7439-96-5	Manganese	2040		1	0.079	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7439-97-6	Mercury	0.45	N	1	0.020	0.045	mg/Kg	08/23/24 14:30	08/24/24 11:54	SW7471B	
7440-02-0	Nickel	12.7		1	0.037	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-09-7	Potassium	466		1	9.22	116	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7782-49-2	Selenium	3.64		1	0.28	1.16	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-22-4	Silver	1.56	N	1	0.060	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-23-5	Sodium	2800		1	14.2	116	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-28-0	Thallium	0.15	J	1	0.023	0.23	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-62-2	Vanadium	50.9		1	0.019	1.16	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050
7440-66-6	Zinc	67.1		1	0.30	1.16	mg/Kg	08/21/24 11:00	08/25/24 23:19	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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:	08/19/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	08/19/24
Client Sample ID:	S-912-J-SO-0.5-1-081924	SDG No.:	P3671
Lab Sample ID:	P3671-14	Matrix:	SOIL
Level (low/med):	low	% Solid:	51.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	4900	N	1	0.79	2.83	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-36-0	Antimony	0.26	J	1	0.014	0.28	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-38-2	Arsenic	3.60		1	0.013	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-39-3	Barium	77.7		1	0.052	1.42	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-41-7	Beryllium	0.42		1	0.035	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-43-9	Cadmium	0.26		1	0.038	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-70-2	Calcium	3140		1	9.57	70.9	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-47-3	Chromium	11.5		1	0.034	0.28	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-48-4	Cobalt	0.68		1	0.011	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-50-8	Copper	20.7		1	0.079	0.28	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7439-89-6	Iron	3320		1	1.57	7.09	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7439-92-1	Lead	52.1		1	0.021	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7439-95-4	Magnesium	557		1	3.83	70.9	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7439-96-5	Manganese	766		1	0.048	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7439-97-6	Mercury	0.046	N	1	0.011	0.025	mg/Kg	08/23/24 14:30	08/24/24 11:57	SW7471B	
7440-02-0	Nickel	4.59		1	0.023	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-09-7	Potassium	250		1	5.64	70.9	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7782-49-2	Selenium	0.99		1	0.17	0.71	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-22-4	Silver	0.13	JN	1	0.037	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-23-5	Sodium	1010		1	8.66	70.9	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-28-0	Thallium	0.060	J	1	0.014	0.14	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-62-2	Vanadium	9.59		1	0.011	0.71	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050
7440-66-6	Zinc	22.8		1	0.18	0.71	mg/Kg	08/21/24 11:00	08/25/24 23:46	SW6020	SW3050

Color Before:	Black	Clarity Before:	Texture:	Medium
Color After:	Yellow	Clarity After:	Artifacts:	N/A
Comments:	Mercury			

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



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV95	Mercury	3.94	4.0	98	90 - 110	CV	08/24/2024	09:39	LB132152

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV21	Mercury	5.46	5.0	109	90 - 110	CV	08/24/2024	09:44	LB132152
CCV22	Mercury	5.35	5.0	107	90 - 110	CV	08/24/2024	10:12	LB132152
CCV23	Mercury	5.45	5.0	109	90 - 110	CV	08/24/2024	10:40	LB132152
CCV24	Mercury	5.44	5.0	109	90 - 110	CV	08/24/2024	11:15	LB132152
CCV25	Mercury	4.98	5.0	100	90 - 110	CV	08/24/2024	11:43	LB132152
CCV26	Mercury	5.10	5.0	102	90 - 110	CV	08/24/2024	12:11	LB132152
CCV27	Mercury	4.96	5.0	99	90 - 110	CV	08/24/2024	12:38	LB132152
CCV28	Mercury	5.35	5.0	107	90 - 110	CV	08/24/2024	13:06	LB132152
CCV29	Mercury	5.15	5.0	103	90 - 110	CV	08/24/2024	13:29	LB132152
CCV30	Mercury	5.13	5.0	103	90 - 110	CV	08/24/2024	13:49	LB132152

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
 Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671
 Initial Calibration Source: EPA
 Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	494	500	99	90 - 110	P	08/25/2024	16:38	LB132155
	Antimony	187	200	93	90 - 110	P	08/25/2024	16:38	LB132155
	Arsenic	195	200	97	90 - 110	P	08/25/2024	16:38	LB132155
	Barium	93.7	100	94	90 - 110	P	08/25/2024	16:38	LB132155
	Beryllium	106	100	106	90 - 110	P	08/25/2024	16:38	LB132155
	Cadmium	103	100	103	90 - 110	P	08/25/2024	16:38	LB132155
	Calcium	2180	2000	109	90 - 110	P	08/25/2024	16:38	LB132155
	Chromium	97.2	100	97	90 - 110	P	08/25/2024	16:38	LB132155
	Cobalt	98.1	100	98	90 - 110	P	08/25/2024	16:38	LB132155
	Copper	99.5	100	100	90 - 110	P	08/25/2024	16:38	LB132155
	Iron	2100	2000	105	90 - 110	P	08/25/2024	16:38	LB132155
	Lead	189	200	94	90 - 110	P	08/25/2024	16:38	LB132155
	Magnesium	1150	1200	96	90 - 110	P	08/25/2024	16:38	LB132155
	Manganese	98.8	100	99	90 - 110	P	08/25/2024	16:38	LB132155
	Nickel	107	110	97	90 - 110	P	08/25/2024	16:38	LB132155
	Potassium	2070	2000	103	90 - 110	P	08/25/2024	16:38	LB132155
	Selenium	197	200	98	90 - 110	P	08/25/2024	16:38	LB132155
	Silver	48.7	50.0	98	90 - 110	P	08/25/2024	16:38	LB132155
	Sodium	2060	2000	103	90 - 110	P	08/25/2024	16:38	LB132155
	Thallium	205	210	98	90 - 110	P	08/25/2024	16:38	LB132155
	Vanadium	94.6	100	95	90 - 110	P	08/25/2024	16:38	LB132155
	Zinc	200	200	100	90 - 110	P	08/25/2024	16:38	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671

Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Aluminum	19.3	20.0	97	80 - 120	P	08/25/2024	17:02	LB132155
	Antimony	1.91	2.0	96	80 - 120	P	08/25/2024	17:02	LB132155
	Arsenic	0.97	1.0	97	80 - 120	P	08/25/2024	17:02	LB132155
	Barium	9.43	10.0	94	80 - 120	P	08/25/2024	17:02	LB132155
	Beryllium	1.11	1.0	111	80 - 120	P	08/25/2024	17:02	LB132155
	Cadmium	0.88	1.0	88	80 - 120	P	08/25/2024	17:02	LB132155
	Calcium	543	500	109	80 - 120	P	08/25/2024	17:02	LB132155
	Chromium	1.79	2.0	90	80 - 120	P	08/25/2024	17:02	LB132155
	Cobalt	1.05	1.0	105	80 - 120	P	08/25/2024	17:02	LB132155
	Copper	2.00	2.0	100	80 - 120	P	08/25/2024	17:02	LB132155
	Iron	57.4	50.0	115	80 - 120	P	08/25/2024	17:02	LB132155
	Lead	0.82	1.0	82	80 - 120	P	08/25/2024	17:02	LB132155
	Magnesium	524	500	105	80 - 120	P	08/25/2024	17:02	LB132155
	Manganese	0.92	1.0	92	80 - 120	P	08/25/2024	17:02	LB132155
	Nickel	0.85	1.0	85	80 - 120	P	08/25/2024	17:02	LB132155
	Potassium	546	500	109	80 - 120	P	08/25/2024	17:02	LB132155
	Selenium	5.25	5.0	105	80 - 120	P	08/25/2024	17:02	LB132155
	Silver	1.00	1.0	100	80 - 120	P	08/25/2024	17:02	LB132155
	Sodium	541	500	108	80 - 120	P	08/25/2024	17:02	LB132155
	Thallium	0.85	1.0	85	80 - 120	P	08/25/2024	17:02	LB132155
	Vanadium	5.09	5.0	102	80 - 120	P	08/25/2024	17:02	LB132155
	Zinc	4.65	5.0	93	80 - 120	P	08/25/2024	17:02	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	49900	50000	100	90 - 110	P	08/25/2024	17:14	LB132155
	Antimony	510	500	102	90 - 110	P	08/25/2024	17:14	LB132155
	Arsenic	486	500	97	90 - 110	P	08/25/2024	17:14	LB132155
	Barium	2460	2500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Beryllium	527	500	105	90 - 110	P	08/25/2024	17:14	LB132155
	Cadmium	464	500	93	90 - 110	P	08/25/2024	17:14	LB132155
	Calcium	255000	250000	102	90 - 110	P	08/25/2024	17:14	LB132155
	Chromium	489	500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Cobalt	474	500	95	90 - 110	P	08/25/2024	17:14	LB132155
	Copper	4740	5000	95	90 - 110	P	08/25/2024	17:14	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	17:14	LB132155
	Lead	2460	2500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Magnesium	251000	250000	101	90 - 110	P	08/25/2024	17:14	LB132155
	Manganese	4830	5000	97	90 - 110	P	08/25/2024	17:14	LB132155
	Nickel	469	500	94	90 - 110	P	08/25/2024	17:14	LB132155
	Potassium	126000	125000	100	90 - 110	P	08/25/2024	17:14	LB132155
	Selenium	476	500	95	90 - 110	P	08/25/2024	17:14	LB132155
	Silver	474	500	95	90 - 110	P	08/25/2024	17:14	LB132155
	Sodium	258000	250000	103	90 - 110	P	08/25/2024	17:14	LB132155
	Thallium	490	500	98	90 - 110	P	08/25/2024	17:14	LB132155
	Vanadium	495	500	99	90 - 110	P	08/25/2024	17:14	LB132155
	Zinc	4690	5000	94	90 - 110	P	08/25/2024	17:14	LB132155
CCV02	Aluminum	50300	50000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Antimony	500	500	100	90 - 110	P	08/25/2024	18:03	LB132155
	Arsenic	480	500	96	90 - 110	P	08/25/2024	18:03	LB132155
	Barium	2400	2500	96	90 - 110	P	08/25/2024	18:03	LB132155
	Beryllium	520	500	104	90 - 110	P	08/25/2024	18:03	LB132155
	Cadmium	461	500	92	90 - 110	P	08/25/2024	18:03	LB132155
	Calcium	254000	250000	102	90 - 110	P	08/25/2024	18:03	LB132155
	Chromium	486	500	97	90 - 110	P	08/25/2024	18:03	LB132155
	Cobalt	471	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Copper	4740	5000	95	90 - 110	P	08/25/2024	18:03	LB132155
	Iron	126000	125000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Lead	2440	2500	98	90 - 110	P	08/25/2024	18:03	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671

Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	253000	250000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Manganese	4790	5000	96	90 - 110	P	08/25/2024	18:03	LB132155
	Nickel	468	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Potassium	127000	125000	101	90 - 110	P	08/25/2024	18:03	LB132155
	Selenium	469	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Silver	469	500	94	90 - 110	P	08/25/2024	18:03	LB132155
	Sodium	258000	250000	103	90 - 110	P	08/25/2024	18:03	LB132155
	Thallium	494	500	99	90 - 110	P	08/25/2024	18:03	LB132155
	Vanadium	496	500	99	90 - 110	P	08/25/2024	18:03	LB132155
	Zinc	4700	5000	94	90 - 110	P	08/25/2024	18:03	LB132155
CCV03	Aluminum	49400	50000	99	90 - 110	P	08/25/2024	18:43	LB132155
	Antimony	486	500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Arsenic	491	500	98	90 - 110	P	08/25/2024	18:43	LB132155
	Barium	2390	2500	96	90 - 110	P	08/25/2024	18:43	LB132155
	Beryllium	501	500	100	90 - 110	P	08/25/2024	18:43	LB132155
	Cadmium	469	500	94	90 - 110	P	08/25/2024	18:43	LB132155
	Calcium	250000	250000	100	90 - 110	P	08/25/2024	18:43	LB132155
	Chromium	480	500	96	90 - 110	P	08/25/2024	18:43	LB132155
	Cobalt	469	500	94	90 - 110	P	08/25/2024	18:43	LB132155
	Copper	4740	5000	95	90 - 110	P	08/25/2024	18:43	LB132155
	Iron	125000	125000	100	90 - 110	P	08/25/2024	18:43	LB132155
	Lead	2440	2500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Magnesium	246000	250000	98	90 - 110	P	08/25/2024	18:43	LB132155
	Manganese	4730	5000	94	90 - 110	P	08/25/2024	18:43	LB132155
	Nickel	459	500	92	90 - 110	P	08/25/2024	18:43	LB132155
	Potassium	124000	125000	99	90 - 110	P	08/25/2024	18:43	LB132155
	Selenium	486	500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Silver	478	500	96	90 - 110	P	08/25/2024	18:43	LB132155
	Sodium	254000	250000	102	90 - 110	P	08/25/2024	18:43	LB132155
	Thallium	493	500	99	90 - 110	P	08/25/2024	18:43	LB132155
	Vanadium	485	500	97	90 - 110	P	08/25/2024	18:43	LB132155
	Zinc	4750	5000	95	90 - 110	P	08/25/2024	18:43	LB132155
CCV04	Aluminum	50000	50000	100	90 - 110	P	08/25/2024	19:27	LB132155
	Antimony	513	500	102	90 - 110	P	08/25/2024	19:27	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	494	500	99	90 - 110	P	08/25/2024	19:27	LB132155
	Barium	2520	2500	101	90 - 110	P	08/25/2024	19:27	LB132155
	Beryllium	521	500	104	90 - 110	P	08/25/2024	19:27	LB132155
	Cadmium	489	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Calcium	254000	250000	101	90 - 110	P	08/25/2024	19:27	LB132155
	Chromium	489	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Cobalt	483	500	97	90 - 110	P	08/25/2024	19:27	LB132155
	Copper	4850	5000	97	90 - 110	P	08/25/2024	19:27	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	19:27	LB132155
	Lead	2450	2500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Magnesium	250000	250000	100	90 - 110	P	08/25/2024	19:27	LB132155
	Manganese	4810	5000	96	90 - 110	P	08/25/2024	19:27	LB132155
	Nickel	472	500	94	90 - 110	P	08/25/2024	19:27	LB132155
	Potassium	125000	125000	100	90 - 110	P	08/25/2024	19:27	LB132155
	Selenium	489	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Silver	495	500	99	90 - 110	P	08/25/2024	19:27	LB132155
	Sodium	254000	250000	102	90 - 110	P	08/25/2024	19:27	LB132155
	Thallium	491	500	98	90 - 110	P	08/25/2024	19:27	LB132155
	Vanadium	495	500	99	90 - 110	P	08/25/2024	19:27	LB132155
	Zinc	4830	5000	97	90 - 110	P	08/25/2024	19:27	LB132155
CCV05	Aluminum	49700	50000	99	90 - 110	P	08/25/2024	20:14	LB132155
	Antimony	496	500	99	90 - 110	P	08/25/2024	20:14	LB132155
	Arsenic	487	500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Barium	2420	2500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Beryllium	519	500	104	90 - 110	P	08/25/2024	20:14	LB132155
	Cadmium	476	500	95	90 - 110	P	08/25/2024	20:14	LB132155
	Calcium	252000	250000	101	90 - 110	P	08/25/2024	20:14	LB132155
	Chromium	491	500	98	90 - 110	P	08/25/2024	20:14	LB132155
	Cobalt	489	500	98	90 - 110	P	08/25/2024	20:14	LB132155
	Copper	4840	5000	97	90 - 110	P	08/25/2024	20:14	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	20:14	LB132155
	Lead	2460	2500	98	90 - 110	P	08/25/2024	20:14	LB132155
	Magnesium	249000	250000	100	90 - 110	P	08/25/2024	20:14	LB132155
	Manganese	4810	5000	96	90 - 110	P	08/25/2024	20:14	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	470	500	94	90 - 110	P	08/25/2024	20:14	LB132155
	Potassium	125000	125000	100	90 - 110	P	08/25/2024	20:14	LB132155
	Selenium	484	500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Silver	486	500	97	90 - 110	P	08/25/2024	20:14	LB132155
	Sodium	255000	250000	102	90 - 110	P	08/25/2024	20:14	LB132155
	Thallium	496	500	99	90 - 110	P	08/25/2024	20:14	LB132155
	Vanadium	499	500	100	90 - 110	P	08/25/2024	20:14	LB132155
	Zinc	4840	5000	97	90 - 110	P	08/25/2024	20:14	LB132155
CCV06	Aluminum	50000	50000	100	90 - 110	P	08/25/2024	21:02	LB132155
	Antimony	493	500	99	90 - 110	P	08/25/2024	21:02	LB132155
	Arsenic	483	500	96	90 - 110	P	08/25/2024	21:02	LB132155
	Barium	2400	2500	96	90 - 110	P	08/25/2024	21:02	LB132155
	Beryllium	504	500	101	90 - 110	P	08/25/2024	21:02	LB132155
	Cadmium	471	500	94	90 - 110	P	08/25/2024	21:02	LB132155
	Calcium	252000	250000	101	90 - 110	P	08/25/2024	21:02	LB132155
	Chromium	483	500	97	90 - 110	P	08/25/2024	21:02	LB132155
	Cobalt	475	500	95	90 - 110	P	08/25/2024	21:02	LB132155
	Copper	4800	5000	96	90 - 110	P	08/25/2024	21:02	LB132155
	Iron	127000	125000	102	90 - 110	P	08/25/2024	21:02	LB132155
	Lead	2440	2500	98	90 - 110	P	08/25/2024	21:02	LB132155
	Magnesium	250000	250000	100	90 - 110	P	08/25/2024	21:02	LB132155
	Manganese	4800	5000	96	90 - 110	P	08/25/2024	21:02	LB132155
	Nickel	463	500	92	90 - 110	P	08/25/2024	21:02	LB132155
	Potassium	123000	125000	99	90 - 110	P	08/25/2024	21:02	LB132155
	Selenium	481	500	96	90 - 110	P	08/25/2024	21:02	LB132155
	Silver	477	500	95	90 - 110	P	08/25/2024	21:02	LB132155
	Sodium	254000	250000	102	90 - 110	P	08/25/2024	21:02	LB132155
	Thallium	487	500	97	90 - 110	P	08/25/2024	21:02	LB132155
	Vanadium	491	500	98	90 - 110	P	08/25/2024	21:02	LB132155
	Zinc	4830	5000	96	90 - 110	P	08/25/2024	21:02	LB132155
CCV07	Aluminum	49600	50000	99	90 - 110	P	08/25/2024	21:47	LB132155
	Antimony	488	500	98	90 - 110	P	08/25/2024	21:47	LB132155
	Arsenic	471	500	94	90 - 110	P	08/25/2024	21:47	LB132155
	Barium	2440	2500	98	90 - 110	P	08/25/2024	21:47	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671

Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Beryllium	504	500	101	90 - 110	P	08/25/2024	21:47	LB132155
	Cadmium	468	500	94	90 - 110	P	08/25/2024	21:47	LB132155
	Calcium	252000	250000	101	90 - 110	P	08/25/2024	21:47	LB132155
	Chromium	482	500	96	90 - 110	P	08/25/2024	21:47	LB132155
	Cobalt	474	500	95	90 - 110	P	08/25/2024	21:47	LB132155
	Copper	4710	5000	94	90 - 110	P	08/25/2024	21:47	LB132155
	Iron	127000	125000	101	90 - 110	P	08/25/2024	21:47	LB132155
	Lead	2470	2500	99	90 - 110	P	08/25/2024	21:47	LB132155
	Magnesium	246000	250000	98	90 - 110	P	08/25/2024	21:47	LB132155
	Manganese	4720	5000	94	90 - 110	P	08/25/2024	21:47	LB132155
	Nickel	463	500	93	90 - 110	P	08/25/2024	21:47	LB132155
	Potassium	124000	125000	99	90 - 110	P	08/25/2024	21:47	LB132155
	Selenium	475	500	95	90 - 110	P	08/25/2024	21:47	LB132155
	Silver	475	500	95	90 - 110	P	08/25/2024	21:47	LB132155
	Sodium	253000	250000	101	90 - 110	P	08/25/2024	21:47	LB132155
	Thallium	499	500	100	90 - 110	P	08/25/2024	21:47	LB132155
	Vanadium	488	500	98	90 - 110	P	08/25/2024	21:47	LB132155
	Zinc	4740	5000	95	90 - 110	P	08/25/2024	21:47	LB132155
CCV08	Aluminum	49700	50000	100	90 - 110	P	08/25/2024	22:31	LB132155
	Antimony	489	500	98	90 - 110	P	08/25/2024	22:31	LB132155
	Arsenic	477	500	95	90 - 110	P	08/25/2024	22:31	LB132155
	Barium	2410	2500	96	90 - 110	P	08/25/2024	22:31	LB132155
	Beryllium	508	500	102	90 - 110	P	08/25/2024	22:31	LB132155
	Cadmium	467	500	93	90 - 110	P	08/25/2024	22:31	LB132155
	Calcium	255000	250000	102	90 - 110	P	08/25/2024	22:31	LB132155
	Chromium	484	500	97	90 - 110	P	08/25/2024	22:31	LB132155
	Cobalt	479	500	96	90 - 110	P	08/25/2024	22:31	LB132155
	Copper	4790	5000	96	90 - 110	P	08/25/2024	22:31	LB132155
	Iron	128000	125000	102	90 - 110	P	08/25/2024	22:31	LB132155
	Lead	2460	2500	98	90 - 110	P	08/25/2024	22:31	LB132155
	Magnesium	248000	250000	99	90 - 110	P	08/25/2024	22:31	LB132155
	Manganese	4780	5000	96	90 - 110	P	08/25/2024	22:31	LB132155
	Nickel	466	500	93	90 - 110	P	08/25/2024	22:31	LB132155
	Potassium	125000	125000	100	90 - 110	P	08/25/2024	22:31	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671

Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV08	Selenium	470	500	94	90 - 110	P	08/25/2024	22:31	LB132155
	Silver	480	500	96	90 - 110	P	08/25/2024	22:31	LB132155
	Sodium	251000	250000	100	90 - 110	P	08/25/2024	22:31	LB132155
	Thallium	494	500	99	90 - 110	P	08/25/2024	22:31	LB132155
	Vanadium	494	500	99	90 - 110	P	08/25/2024	22:31	LB132155
	Zinc	4770	5000	95	90 - 110	P	08/25/2024	22:31	LB132155
CCV09	Aluminum	51800	50000	104	90 - 110	P	08/25/2024	23:34	LB132155
	Antimony	508	500	102	90 - 110	P	08/25/2024	23:34	LB132155
	Arsenic	483	500	96	90 - 110	P	08/25/2024	23:34	LB132155
	Barium	2440	2500	98	90 - 110	P	08/25/2024	23:34	LB132155
	Beryllium	534	500	107	90 - 110	P	08/25/2024	23:34	LB132155
	Cadmium	485	500	97	90 - 110	P	08/25/2024	23:34	LB132155
	Calcium	248000	250000	99	90 - 110	P	08/25/2024	23:34	LB132155
	Chromium	487	500	97	90 - 110	P	08/25/2024	23:34	LB132155
	Cobalt	480	500	96	90 - 110	P	08/25/2024	23:34	LB132155
	Copper	4980	5000	100	90 - 110	P	08/25/2024	23:34	LB132155
	Iron	127000	125000	101	90 - 110	P	08/25/2024	23:34	LB132155
	Lead	2470	2500	99	90 - 110	P	08/25/2024	23:34	LB132155
	Magnesium	246000	250000	98	90 - 110	P	08/25/2024	23:34	LB132155
	Manganese	4830	5000	96	90 - 110	P	08/25/2024	23:34	LB132155
	Nickel	467	500	94	90 - 110	P	08/25/2024	23:34	LB132155
	Potassium	124000	125000	99	90 - 110	P	08/25/2024	23:34	LB132155
	Selenium	495	500	99	90 - 110	P	08/25/2024	23:34	LB132155
	Silver	499	500	100	90 - 110	P	08/25/2024	23:34	LB132155
	Sodium	251000	250000	100	90 - 110	P	08/25/2024	23:34	LB132155
	Thallium	507	500	101	90 - 110	P	08/25/2024	23:34	LB132155
	Vanadium	495	500	99	90 - 110	P	08/25/2024	23:34	LB132155
	Zinc	4930	5000	98	90 - 110	P	08/25/2024	23:34	LB132155
CCV10	Aluminum	52300	50000	105	90 - 110	P	08/26/2024	00:42	LB132155
	Antimony	501	500	100	90 - 110	P	08/26/2024	00:42	LB132155
	Arsenic	475	500	95	90 - 110	P	08/26/2024	00:42	LB132155
	Barium	2410	2500	96	90 - 110	P	08/26/2024	00:42	LB132155
	Beryllium	529	500	106	90 - 110	P	08/26/2024	00:42	LB132155
	Cadmium	472	500	94	90 - 110	P	08/26/2024	00:42	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV10	Calcium	246000	250000	98	90 - 110	P	08/26/2024	00:42	LB132155
	Chromium	485	500	97	90 - 110	P	08/26/2024	00:42	LB132155
	Cobalt	483	500	96	90 - 110	P	08/26/2024	00:42	LB132155
	Copper	4970	5000	99	90 - 110	P	08/26/2024	00:42	LB132155
	Iron	128000	125000	102	90 - 110	P	08/26/2024	00:42	LB132155
	Lead	2440	2500	98	90 - 110	P	08/26/2024	00:42	LB132155
	Magnesium	247000	250000	99	90 - 110	P	08/26/2024	00:42	LB132155
	Manganese	4880	5000	98	90 - 110	P	08/26/2024	00:42	LB132155
	Nickel	464	500	93	90 - 110	P	08/26/2024	00:42	LB132155
	Potassium	123000	125000	98	90 - 110	P	08/26/2024	00:42	LB132155
	Selenium	481	500	96	90 - 110	P	08/26/2024	00:42	LB132155
	Silver	492	500	98	90 - 110	P	08/26/2024	00:42	LB132155
	Sodium	251000	250000	100	90 - 110	P	08/26/2024	00:42	LB132155
	Thallium	491	500	98	90 - 110	P	08/26/2024	00:42	LB132155
	Vanadium	494	500	99	90 - 110	P	08/26/2024	00:42	LB132155
	Zinc	4850	5000	97	90 - 110	P	08/26/2024	00:42	LB132155
CCV11	Aluminum	52200	50000	104	90 - 110	P	08/26/2024	01:17	LB132155
	Antimony	502	500	100	90 - 110	P	08/26/2024	01:17	LB132155
	Arsenic	475	500	95	90 - 110	P	08/26/2024	01:17	LB132155
	Barium	2420	2500	97	90 - 110	P	08/26/2024	01:17	LB132155
	Beryllium	517	500	104	90 - 110	P	08/26/2024	01:17	LB132155
	Cadmium	478	500	96	90 - 110	P	08/26/2024	01:17	LB132155
	Calcium	249000	250000	100	90 - 110	P	08/26/2024	01:17	LB132155
	Chromium	488	500	98	90 - 110	P	08/26/2024	01:17	LB132155
	Cobalt	481	500	96	90 - 110	P	08/26/2024	01:17	LB132155
	Copper	5040	5000	101	90 - 110	P	08/26/2024	01:17	LB132155
	Iron	127000	125000	102	90 - 110	P	08/26/2024	01:17	LB132155
	Lead	2420	2500	97	90 - 110	P	08/26/2024	01:17	LB132155
	Magnesium	249000	250000	100	90 - 110	P	08/26/2024	01:17	LB132155
	Manganese	4880	5000	98	90 - 110	P	08/26/2024	01:17	LB132155
	Nickel	470	500	94	90 - 110	P	08/26/2024	01:17	LB132155
	Potassium	123000	125000	98	90 - 110	P	08/26/2024	01:17	LB132155
	Selenium	477	500	95	90 - 110	P	08/26/2024	01:17	LB132155
	Silver	489	500	98	90 - 110	P	08/26/2024	01:17	LB132155

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: P3671

Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV11	Sodium	255000	250000	102	90 - 110	P	08/26/2024	01:17	LB132155
	Thallium	493	500	99	90 - 110	P	08/26/2024	01:17	LB132155
	Vanadium	494	500	99	90 - 110	P	08/26/2024	01:17	LB132155
	Zinc	4940	5000	99	90 - 110	P	08/26/2024	01:17	LB132155



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Case No.: P3671

SAS No.: P3671

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.18	0.2	89	40 - 160	CV	08/24/2024	09:49	LB132152
CRI	Aluminum	20.3	20.0	102	70 - 130	P	08/25/2024	17:26	LB132155
	Antimony	1.95	2.0	98	70 - 130	P	08/25/2024	17:26	LB132155
	Arsenic	1.13	1.0	113	70 - 130	P	08/25/2024	17:26	LB132155
	Barium	9.42	10.0	94	70 - 130	P	08/25/2024	17:26	LB132155
	Beryllium	1.12	1.0	112	70 - 130	P	08/25/2024	17:26	LB132155
	Cadmium	0.88	1.0	88	70 - 130	P	08/25/2024	17:26	LB132155
	Calcium	553	500	110	70 - 130	P	08/25/2024	17:26	LB132155
	Chromium	1.77	2.0	88	70 - 130	P	08/25/2024	17:26	LB132155
	Cobalt	1.06	1.0	106	50 - 150	P	08/25/2024	17:26	LB132155
	Copper	2.06	2.0	103	70 - 130	P	08/25/2024	17:26	LB132155
	Iron	57.0	50.0	114	70 - 130	P	08/25/2024	17:26	LB132155
	Lead	0.88	1.0	88	70 - 130	P	08/25/2024	17:26	LB132155
	Magnesium	528	500	106	70 - 130	P	08/25/2024	17:26	LB132155
	Manganese	0.99	1.0	99	50 - 150	P	08/25/2024	17:26	LB132155
	Nickel	0.88	1.0	88	70 - 130	P	08/25/2024	17:26	LB132155
	Potassium	541	500	108	70 - 130	P	08/25/2024	17:26	LB132155
	Selenium	5.09	5.0	102	70 - 130	P	08/25/2024	17:26	LB132155
	Silver	0.97	1.0	97	70 - 130	P	08/25/2024	17:26	LB132155
	Sodium	557	500	112	70 - 130	P	08/25/2024	17:26	LB132155
	Thallium	0.87	1.0	87	70 - 130	P	08/25/2024	17:26	LB132155
	Vanadium	5.03	5.0	101	70 - 130	P	08/25/2024	17:26	LB132155
	Zinc	4.84	5.0	97	50 - 150	P	08/25/2024	17:26	LB132155



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

JACOBS Engineering Group, Inc.

SDG No.:

P3671

Contract:

JACO05

Lab Code:

CHEM

Case No.:

P3671

SAS No.:

P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB95	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	09:42	LB132152

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB21	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	09:46	LB132152
CCB22	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	10:14	LB132152
CCB23	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	10:42	LB132152
CCB24	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	11:17	LB132152
CCB25	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	11:45	LB132152
CCB26	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	12:13	LB132152
CCB27	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	12:40	LB132152
CCB28	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	13:08	LB132152
CCB29	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	13:31	LB132152
CCB30	Mercury	0.20	+/-0.20	U	0.20	CV	08/24/2024	13:52	LB132152

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Case No.: P3671

SAS No.: P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	17:05	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/25/2024	17:05	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	17:05	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	17:05	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	17:05	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	17:05	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	17:05	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	17:05	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	17:05	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	17:05	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	17:05	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	17:05	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	17:05	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	17:05	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	17:23	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/25/2024	17:23	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	17:23	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	17:23	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	17:23	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	17:23	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	17:23	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	17:23	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	17:23	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	17:23	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	17:23	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	17:23	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	17:23	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	17:23	LB132155
CCB02	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	18:09	LB132155
	Antimony	0.14	+/-2.00	J	2.00	P	08/25/2024	18:09	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	18:09	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	18:09	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	18:09	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	18:09	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	18:09	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	18:09	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	18:09	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	18:09	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	18:09	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	18:09	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	18:09	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	18:09	LB132155
CCB03	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	18:49	LB132155
	Antimony	0.20	+/-2.00	J	2.00	P	08/25/2024	18:49	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	18:49	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	18:49	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	18:49	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	18:49	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	18:49	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	18:49	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	18:49	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	18:49	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	18:49	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	18:49	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	18:49	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	18:49	LB132155
CCB04	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	19:33	LB132155
	Antimony	0.15	+/-2.00	J	2.00	P	08/25/2024	19:33	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	19:33	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	19:33	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	19:33	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	19:33	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	19:33	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	500	+/-500	U	500	P	08/25/2024	19:33	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	19:33	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	19:33	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	19:33	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	19:33	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	19:33	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	19:33	LB132155
CCB05	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	20:29	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/25/2024	20:29	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	20:29	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	20:29	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	20:29	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	20:29	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	20:29	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	20:29	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	20:29	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	20:29	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	20:29	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	20:29	LB132155
CCB06	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	20:29	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	20:29	LB132155
	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	21:14	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/25/2024	21:14	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	21:14	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	21:14	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Case No.: P3671

SAS No.: P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	21:14	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	21:14	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	21:14	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	21:14	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	21:14	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	21:14	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	21:14	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	21:14	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	21:14	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	21:14	LB132155
CCB07	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	21:55	LB132155
	Antimony	0.13	+/-2.00	J	2.00	P	08/25/2024	21:55	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	21:55	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	21:55	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	21:55	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	21:55	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	21:55	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	21:55	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	21:55	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	21:55	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	21:55	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	21:55	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	21:55	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	21:55	LB132155
CCB08	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	22:50	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/25/2024	22:50	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. SDG No.: P3671
Contract: JACO05 Lab Code: CHEM Case No.: P3671 SAS No.: P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	22:50	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	22:50	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	22:50	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	22:50	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	22:50	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	22:50	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	22:50	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	22:50	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	22:50	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	22:50	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	22:50	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	22:50	LB132155
CCB09	Aluminum	20.0	+/-20.0	U	20.0	P	08/25/2024	23:43	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/25/2024	23:43	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/25/2024	23:43	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Calcium	500	+/-500	U	500	P	08/25/2024	23:43	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/25/2024	23:43	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/25/2024	23:43	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/25/2024	23:43	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Magnesium	500	+/-500	U	500	P	08/25/2024	23:43	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Potassium	500	+/-500	U	500	P	08/25/2024	23:43	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/25/2024	23:43	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Sodium	500	+/-500	U	500	P	08/25/2024	23:43	LB132155

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Case No.: P3671

SAS No.: P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB09	Thallium	1.00	+/-1.00	U	1.00	P	08/25/2024	23:43	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/25/2024	23:43	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/25/2024	23:43	LB132155
CCB10	Aluminum	20.0	+/-20.0	U	20.0	P	08/26/2024	00:52	LB132155
	Antimony	2.00	+/-2.00	U	2.00	P	08/26/2024	00:52	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/26/2024	00:52	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Calcium	500	+/-500	U	500	P	08/26/2024	00:52	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/26/2024	00:52	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/26/2024	00:52	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/26/2024	00:52	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Magnesium	500	+/-500	U	500	P	08/26/2024	00:52	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Nickel	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Potassium	500	+/-500	U	500	P	08/26/2024	00:52	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/26/2024	00:52	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Sodium	500	+/-500	U	500	P	08/26/2024	00:52	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/26/2024	00:52	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/26/2024	00:52	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/26/2024	00:52	LB132155
	Aluminum	20.0	+/-20.0	U	20.0	P	08/26/2024	01:30	LB132155
	Antimony	0.12	+/-2.00	J	2.00	P	08/26/2024	01:30	LB132155
	Arsenic	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Barium	10.0	+/-10.0	U	10.0	P	08/26/2024	01:30	LB132155
	Beryllium	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Cadmium	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Calcium	500	+/-500	U	500	P	08/26/2024	01:30	LB132155
	Chromium	2.00	+/-2.00	U	2.00	P	08/26/2024	01:30	LB132155
	Cobalt	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Copper	2.00	+/-2.00	U	2.00	P	08/26/2024	01:30	LB132155
	Iron	50.0	+/-50.0	U	50.0	P	08/26/2024	01:30	LB132155
	Lead	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Magnesium	500	+/-500	U	500	P	08/26/2024	01:30	LB132155
	Manganese	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Case No.: P3671

SAS No.: P3671

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB11	Nickel	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Potassium	500	+/-500	U	500	P	08/26/2024	01:30	LB132155
	Selenium	5.00	+/-5.00	U	5.00	P	08/26/2024	01:30	LB132155
	Silver	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Sodium	500	+/-500	U	500	P	08/26/2024	01:30	LB132155
	Thallium	1.00	+/-1.00	U	1.00	P	08/26/2024	01:30	LB132155
	Vanadium	5.00	+/-5.00	U	5.00	P	08/26/2024	01:30	LB132155
	Zinc	5.00	+/-5.00	U	5.00	P	08/26/2024	01:30	LB132155

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB162977BL		SOLID		Batch Number:	PB162977		Prep Date:	08/23/2024	
	Mercury	0.014	<0.014	U	0.014	CV	08/24/2024	10:58	LB132152

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Instrument: P7

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB162888BL	SOLID			Batch Number:	PB162888		Prep Date:	08/21/2024	
	Aluminum	2.00	<2.00	U	2.00	P	08/25/2024	21:22	LB132155
	Antimony	0.045	<0.20	J	0.20	P	08/25/2024	21:22	LB132155
	Arsenic	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Barium	1.00	<1.00	U	1.00	P	08/25/2024	21:22	LB132155
	Beryllium	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Cadmium	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Calcium	50.0	<50.0	U	50.0	P	08/25/2024	21:22	LB132155
	Chromium	0.20	<0.20	U	0.20	P	08/25/2024	21:22	LB132155
	Cobalt	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Copper	0.20	<0.20	U	0.20	P	08/25/2024	21:22	LB132155
	Iron	5.00	<5.00	U	5.00	P	08/25/2024	21:22	LB132155
	Lead	0.018	<0.10	J	0.10	P	08/25/2024	21:22	LB132155
	Magnesium	50.0	<50.0	U	50.0	P	08/25/2024	21:22	LB132155
	Manganese	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Nickel	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Potassium	50.0	<50.0	U	50.0	P	08/25/2024	21:22	LB132155
	Selenium	0.50	<0.50	U	0.50	P	08/25/2024	21:22	LB132155
	Silver	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Sodium	50.0	<50.0	U	50.0	P	08/25/2024	21:22	LB132155
	Thallium	0.10	<0.10	U	0.10	P	08/25/2024	21:22	LB132155
	Vanadium	0.50	<0.50	U	0.50	P	08/25/2024	21:22	LB132155
	Zinc	0.50	<0.50	U	0.50	P	08/25/2024	21:22	LB132155

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	88700	100000	89	0	0	08/25/2024	17:08	LB132155
	Antimony	1.02	1.5	68	-2.5	5.5	08/25/2024	17:08	LB132155
	Arsenic	0.37	0.1	370	-1.9	2.1	08/25/2024	17:08	LB132155
	Barium	1.31	1.2	109	-18.8	21.2	08/25/2024	17:08	LB132155
	Beryllium	0.28			-2	2	08/25/2024	17:08	LB132155
	Cadmium	0.15	0.7	21	-1.3	2.7	08/25/2024	17:08	LB132155
	Calcium	93300	100000	93	0	0	08/25/2024	17:08	LB132155
	Chromium	19.1	21.0	91	17	25	08/25/2024	17:08	LB132155
	Cobalt	1.15	1.0	115	-1	3	08/25/2024	17:08	LB132155
	Copper	7.67	8.0	96	4	12	08/25/2024	17:08	LB132155
	Iron	98300	100000	98	0	0	08/25/2024	17:08	LB132155
	Lead	4.48	4.0	112	2	6	08/25/2024	17:08	LB132155
	Magnesium	89300	100000	89	0	0	08/25/2024	17:08	LB132155
	Manganese	7.51	7.0	107	5	9	08/25/2024	17:08	LB132155
	Nickel	5.16	6.0	86	4	8	08/25/2024	17:08	LB132155
	Potassium	94300	100000	94	0	0	08/25/2024	17:08	LB132155
	Selenium	0.40	0.3	133	-9.7	10	08/25/2024	17:08	LB132155
	Silver	0.080			-2	2	08/25/2024	17:08	LB132155
	Sodium	95900	100000	96	0	0	08/25/2024	17:08	LB132155
	Thallium	0.050			-2	2	08/25/2024	17:08	LB132155
	Vanadium	0.17	0.5	34	-9.5	10.5	08/25/2024	17:08	LB132155
	Zinc	9.97	11.0	91	7	15	08/25/2024	17:08	LB132155
ICSAB01	Aluminum	89800	100000	90	0	0	08/25/2024	17:11	LB132155
	Antimony	18.9	22.0	86	18	26	08/25/2024	17:11	LB132155
	Arsenic	19.4	19.0	102	16.2	21.9	08/25/2024	17:11	LB132155
	Barium	19.2	22.0	87	2	42	08/25/2024	17:11	LB132155
	Beryllium	21.1	19.0	111	16.2	21.9	08/25/2024	17:11	LB132155
	Cadmium	18.4	20.0	92	17	23	08/25/2024	17:11	LB132155
	Calcium	97300	100000	97	0	0	08/25/2024	17:11	LB132155
	Chromium	38.2	40.0	96	34	46	08/25/2024	17:11	LB132155
	Cobalt	20.2	20.0	101	17	23	08/25/2024	17:11	LB132155
	Copper	26.9	25.0	108	21	29	08/25/2024	17:11	LB132155
	Iron	102000	100000	102	0	0	08/25/2024	17:11	LB132155
	Lead	22.0	25.0	88	21.3	28.8	08/25/2024	17:11	LB132155
	Magnesium	96000	100000	96	0	0	08/25/2024	17:11	LB132155
	Manganese	27.1	27.0	100	23	31.1	08/25/2024	17:11	LB132155
	Nickel	23.9	24.0	100	20.4	27.6	08/25/2024	17:11	LB132155
	Potassium	96800	100000	97	0	0	08/25/2024	17:11	LB132155
	Selenium	19.5	19.0	103	9	29	08/25/2024	17:11	LB132155
	Silver	17.6	18.0	98	15.3	20.7	08/25/2024	17:11	LB132155
	Sodium	97600	100000	98	0	0	08/25/2024	17:11	LB132155
	Thallium	18.5	21.0	88	17.9	24.2	08/25/2024	17:11	LB132155

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	19.2	19.0	101	9	29	08/25/2024	17:11	LB132155
	Zinc	31.6	29.0	109	25	33	08/25/2024	17:11	LB132155



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>JACOBS Engineering Group, Inc.</u>	level: <u>low</u>	sdg no.: <u>P3671</u>
contract: <u>JACO05</u>	lab code: <u>CHEM</u>	case no.: <u>P3671</u> sas no.: <u>P3671</u>
matrix: <u>Solid</u>	sample id: <u>P3671-01</u>	client id: <u>S-904-J-SO-0-0.5-081924MS</u>
Percent Solids for Sample: 71.3	Spiked ID: P3671-01MS	Percent Solids for Spike Sample: 71.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.76		0.51		0.34	71	N	CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3671
contract: JACO05 **lab code:** CHEM **case no.:** P3671 **sas no.:** P3671
matrix: Solid **sample id:** P3671-01 **client id:** S-904-J-SO-0-0.5-081924MSD
Percent Solids for Sample: 71.3 **Spiked ID:** P3671-01MSD **Percent Solids for Spike Sample:** 71.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.74		0.51		0.36	63	N	CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P3671</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>P3671</u>
matrix:	<u>Solid</u>	sample id:	<u>P3671-14</u>	client id:	<u>S-912-J-SO-0.5-1-081924MS</u>
Percent Solids for Sample:	51.5	Spiked ID:	P3671-14MS	Percent Solids for Spike Sample:	51.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5560		4900		1400	48	N	P
Antimony	mg/Kg	75 - 125	73.1		0.26	J	69.3	105		P
Arsenic	mg/Kg	75 - 125	70.8		3.60		69.3	97		P
Barium	mg/Kg	75 - 125	405		77.7		350	95		P
Beryllium	mg/Kg	75 - 125	79.9		0.42		69.3	115		P
Cadmium	mg/Kg	75 - 125	74.5		0.26		69.3	107		P
Calcium	mg/Kg	75 - 125	9820		3140		6900	96		P
Chromium	mg/Kg	75 - 125	79.9		11.5		69.3	99		P
Cobalt	mg/Kg	75 - 125	75.3		0.68		69.3	108		P
Copper	mg/Kg	75 - 125	728		20.7		690	102		P
Iron	mg/Kg	75 - 125	6580		3320		3500	94		P
Lead	mg/Kg	75 - 125	396		52.1		350	99		P
Magnesium	mg/Kg	75 - 125	7200		557		6900	96		P
Manganese	mg/Kg	75 - 125	1350		766		690	84		P
Nickel	mg/Kg	75 - 125	74.7		4.59		69.3	101		P
Potassium	mg/Kg	75 - 125	3660		250		3500	98		P
Selenium	mg/Kg	75 - 125	70.0		0.99		69.3	100		P
Silver	mg/Kg	75 - 125	47.4		0.13	J	69.3	68	N	P
Sodium	mg/Kg	75 - 125	7530		1010		6900	94		P
Thallium	mg/Kg	75 - 125	73.3		0.060	J	69.3	106		P
Vanadium	mg/Kg	75 - 125	82.8		9.59		69.3	106		P
Zinc	mg/Kg	75 - 125	727		22.8		690	102		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P3671</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>P3671</u>
matrix:	<u>Solid</u>	sample id:	<u>P3671-14</u>	client id:	<u>S-912-J-SO-0.5-1-081924MSD</u>
Percent Solids for Sample:	51.5	Spiked ID:	P3671-14MSD	Percent Solids for Spike Sample:	51.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5430		4900		1400	39	N	P
Antimony	mg/Kg	75 - 125	71.1		0.26	J	68.9	103		P
Arsenic	mg/Kg	75 - 125	71.2		3.60		68.9	98		P
Barium	mg/Kg	75 - 125	399		77.7		340	93		P
Beryllium	mg/Kg	75 - 125	77.4		0.42		68.9	112		P
Cadmium	mg/Kg	75 - 125	73.0		0.26		68.9	106		P
Calcium	mg/Kg	75 - 125	9680		3140		6900	95		P
Chromium	mg/Kg	75 - 125	79.5		11.5		68.9	99		P
Cobalt	mg/Kg	75 - 125	76.0		0.68		68.9	109		P
Copper	mg/Kg	75 - 125	721		20.7		690	102		P
Iron	mg/Kg	75 - 125	6700		3320		3400	98		P
Lead	mg/Kg	75 - 125	394		52.1		340	99		P
Magnesium	mg/Kg	75 - 125	7160		557		6900	96		P
Manganese	mg/Kg	75 - 125	1310		766		690	79		P
Nickel	mg/Kg	75 - 125	74.8		4.59		68.9	102		P
Potassium	mg/Kg	75 - 125	3590		250		3400	97		P
Selenium	mg/Kg	75 - 125	68.3		0.99		68.9	98		P
Silver	mg/Kg	75 - 125	41.8		0.13	J	68.9	61	N	P
Sodium	mg/Kg	75 - 125	7580		1010		6900	95		P
Thallium	mg/Kg	75 - 125	73.2		0.060	J	68.9	106		P
Vanadium	mg/Kg	75 - 125	82.5		9.59		68.9	106		P
Zinc	mg/Kg	75 - 125	720		22.8		690	101		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
Matrix: Solid **Level:** LOW **Client ID:** S-904-J-SO-0-0.5-081924
Sample ID: P3671-01 **Spiked ID:** P3671-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.75		0.51		0.36	66		CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
Matrix: Solid **Level:** LOW **Client ID:** S-912-J-SO-0.5-1-081924A
Sample ID: P3671-14 **Spiked ID:** P3671-14A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5750		4900		1400	61		P
Silver	mg/Kg	75 - 125	19.3		0.13	J	70.9	27		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>P3671</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P3671</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P3671-01</u>	Client ID:	<u>S-904-J-SO-0-0.5-081924</u>
Percent Solids for Sample:	71.3	Duplicate ID	P3671-01DUP	Percent Solids for Spike Sample:	71.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.51		0.48		7		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
Matrix: Solid **Sample ID:** P3671-01MS **Client ID:** S-904-J-SO-0-0.5-081924MSD
Percent Solids for Sample: 71.3 **Duplicate ID** P3671-01MSD **Percent Solids for Spike Sample:** 71.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.76		0.74		2		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
Matrix: Solid **Sample ID:** P3671-14 **Client ID:** S-912-J-SO-0.5-1-081924DUP
Percent Solids for Sample: 51.5 **Duplicate ID** P3671-14DUP **Percent Solids for Spike Sample:** 51.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	4900		4720		4		P
Antimony	mg/Kg	20	0.26	J	0.24	J	8		P
Arsenic	mg/Kg	20	3.60		3.70		3		P
Barium	mg/Kg	20	77.7		75.7		3		P
Beryllium	mg/Kg	20	0.42		0.41		4		P
Cadmium	mg/Kg	20	0.26		0.25		2		P
Calcium	mg/Kg	20	3140		3020		4		P
Chromium	mg/Kg	20	11.5		11.1		4		P
Cobalt	mg/Kg	20	0.68		0.67		2		P
Copper	mg/Kg	20	20.7		19.0		9		P
Iron	mg/Kg	20	3320		3220		3		P
Lead	mg/Kg	20	52.1		51.1		2		P
Magnesium	mg/Kg	20	557		534		4		P
Manganese	mg/Kg	20	766		735		4		P
Nickel	mg/Kg	20	4.59		4.01		13		P
Potassium	mg/Kg	20	250		238		5		P
Selenium	mg/Kg	20	0.99		0.93		7		P
Silver	mg/Kg	20	0.13	J	0.12	J	2		P
Sodium	mg/Kg	20	1010		969		4		P
Thallium	mg/Kg	20	0.060	J	0.056	J	7		P
Vanadium	mg/Kg	20	9.59		9.36		2		P
Zinc	mg/Kg	20	22.8		21.1		8		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671
Matrix: Solid **Sample ID:** P3671-14MS **Client ID:** S-912-J-SO-0.5-1-081924MSD
Percent Solids for Sample: 51.5 **Duplicate ID** P3671-14MSD **Percent Solids for Spike Sample:** 51.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	5560		5430		2		P
Antimony	mg/Kg	20	73.1		71.1		3		P
Arsenic	mg/Kg	20	70.8		71.2		1		P
Barium	mg/Kg	20	405		399		1		P
Beryllium	mg/Kg	20	79.9		77.4		3		P
Cadmium	mg/Kg	20	74.5		73.0		2		P
Calcium	mg/Kg	20	9820		9680		1		P
Chromium	mg/Kg	20	79.9		79.5		1		P
Cobalt	mg/Kg	20	75.3		76.0		1		P
Copper	mg/Kg	20	728		721		1		P
Iron	mg/Kg	20	6580		6700		2		P
Lead	mg/Kg	20	396		394		1		P
Magnesium	mg/Kg	20	7200		7160		1		P
Manganese	mg/Kg	20	1350		1310		3		P
Nickel	mg/Kg	20	74.7		74.8		0		P
Potassium	mg/Kg	20	3660		3590		2		P
Selenium	mg/Kg	20	70.0		68.3		2		P
Silver	mg/Kg	20	47.4		41.8		13		P
Sodium	mg/Kg	20	7530		7580		1		P
Thallium	mg/Kg	20	73.3		73.2		0		P
Vanadium	mg/Kg	20	82.8		82.5		0		P
Zinc	mg/Kg	20	727		720		1		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** P3671
Contract: JACO05 **Lab Code:** CHEM **Case No.:** P3671 **SAS No.:** P3671

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB162888BS							
Aluminum	mg/Kg	1000	1030		103	80 - 120	P
Antimony	mg/Kg	50.0	50.5		101	80 - 120	P
Arsenic	mg/Kg	50.0	49.4		99	80 - 120	P
Barium	mg/Kg	250	253		101	80 - 120	P
Beryllium	mg/Kg	50.0	52.1		104	80 - 120	P
Cadmium	mg/Kg	50.0	49.9		100	80 - 120	P
Calcium	mg/Kg	5000	5490		110	80 - 120	P
Chromium	mg/Kg	50.0	50.8		102	80 - 120	P
Cobalt	mg/Kg	50.0	51.6		103	80 - 120	P
Copper	mg/Kg	500	520		104	80 - 120	P
Iron	mg/Kg	2500	2810		112	80 - 120	P
Lead	mg/Kg	250	252		101	80 - 120	P
Magnesium	mg/Kg	5000	5230		105	80 - 120	P
Manganese	mg/Kg	500	508		102	80 - 120	P
Nickel	mg/Kg	50.0	50.9		102	80 - 120	P
Potassium	mg/Kg	2500	2580		103	80 - 120	P
Selenium	mg/Kg	50.0	49.8		100	80 - 120	P
Silver	mg/Kg	50.0	51.5		103	80 - 120	P
Sodium	mg/Kg	5000	5310		106	80 - 120	P
Thallium	mg/Kg	50.0	50.6		101	80 - 120	P
Vanadium	mg/Kg	50.0	50.8		102	80 - 120	P
Zinc	mg/Kg	500	513		103	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Case No.: P3671

SAS No.: P3671

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB162977BS Mercury	mg/Kg	0.27	0.28		103	80 - 120	CV

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1438	100		100		100		100		100	
S2	S2	1442	101		102		103		102		100	
S3	S3	1445	105		103		103		101		103	
S4	S4	1448	109		104		104		102		104	
S5	S5	1451	111		104		101		100		105	
S6	S6	1454	114		101		103		99		105	
S7	S7	1457	112		104		105		98		105	
S8	S8	1459	110		101		99		88		101	
ICV01	ICV01	1638	107		105		105		104		103	
LLICV	LLICV	1702	103		104		104		103		102	
ICB01	ICB01	1705	105		105		106		105		105	
ICSA01	ICSA01	1708	114		106		103		97		104	
ICSAB01	ICSAB01	1711	107		105		105		98		107	
CCV01	CCV01	1714	109		105		105		96		105	
CCB01	CCB01	1723	106		103		103		103		103	
CRI	CRI	1726	105		102		101		102		103	
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
ZZZZZZ	ZZZZZZ	1747										
ZZZZZZ	ZZZZZZ	1750										
ZZZZZZ	ZZZZZZ	1753										
ZZZZZZ	ZZZZZZ	1757										
ZZZZZZ	ZZZZZZ	1800										
CCV02	CCV02	1803	113		104		104		94		104	
CCB02	CCB02	1809	108		104		103		102		102	
ZZZZZZ	ZZZZZZ	1813										
ZZZZZZ	ZZZZZZ	1816										
ZZZZZZ	ZZZZZZ	1819										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1825										
ZZZZZZ	ZZZZZZ	1828										
ZZZZZZ	ZZZZZZ	1831										
ZZZZZZ	ZZZZZZ	1834										
ZZZZZZ	ZZZZZZ	1837										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	1840										
CCV03	CCV03	1843	118		107		105		96		106	
CCB03	CCB03	1849	109		103		102		102		101	
ZZZZZZ	ZZZZZZ	1855										
ZZZZZZ	ZZZZZZ	1858										
ZZZZZZ	ZZZZZZ	1902										
ZZZZZZ	ZZZZZZ	1905										
ZZZZZZ	ZZZZZZ	1908										
ZZZZZZ	ZZZZZZ	1911										
ZZZZZZ	ZZZZZZ	1914										
ZZZZZZ	ZZZZZZ	1917										
ZZZZZZ	ZZZZZZ	1921										
ZZZZZZ	ZZZZZZ	1924										
CCV04	CCV04	1927	108		106		105		98		104	
CCB04	CCB04	1933	107		108		104		105		104	
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1940										
ZZZZZZ	ZZZZZZ	1948										
ZZZZZZ	ZZZZZZ	1951										
ZZZZZZ	ZZZZZZ	1954										
ZZZZZZ	ZZZZZZ	1958										
ZZZZZZ	ZZZZZZ	2001										
ZZZZZZ	ZZZZZZ	2004										
ZZZZZZ	ZZZZZZ	2007										
ZZZZZZ	ZZZZZZ	2011										
CCV05	CCV05	2014	109		107		106		97		105	
CCB05	CCB05	2029	101		105		103		101		99	
ZZZZZZ	ZZZZZZ	2032										
ZZZZZZ	ZZZZZZ	2035										
ZZZZZZ	ZZZZZZ	2039										
ZZZZZZ	ZZZZZZ	2042										
ZZZZZZ	ZZZZZZ	2045										
ZZZZZZ	ZZZZZZ	2048										
ZZZZZZ	ZZZZZZ	2051										
ZZZZZZ	ZZZZZZ	2054										
ZZZZZZ	ZZZZZZ	2056										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
ZZZZZZ	ZZZZZZ	2059										
CCV06	CCV06	2102	119		108		105		96		105	
CCB06	CCB06	2114	109		105		102		102		101	
ZZZZZZ	ZZZZZZ	2117										
ZZZZZZ	ZZZZZZ	2120										
PB162888BL	PB162888BL	2122	117		106		103		103		103	
PB162888BS	PB162888BS	2126	116		106		104		98		103	
P3671-01	S-904-J-SO-	2129	114		115		127		100		103	
P3671-01	S-904-J-SO-	2132	115		109		109		103		105	
P3671-02	S-904-J-SO-	2135	114		119		138	*	101		106	
P3671-02	S-904-J-SO-	2138	113		112		113		104		106	
P3671-03	S-911-K1-SO-	2141	109		108		113		102		104	
P3671-03	S-911-K1-SO-	2144	112		108		109		106		106	
CCV07	CCV07	2147	115		108		106		95		105	
CCB07	CCB07	2155	109		108		107		105		105	
P3671-04	S-911-K1-SO-	2200	110		113		137	*	104		106	
P3671-04	S-911-K1-SO-	2203	109		111		114		107		105	
P3671-05	S-911-K1-SO-	2206	111		115		134	*	109		111	
P3671-05	S-911-K1-SO-	2209	104		106		108		104		103	
P3671-06	S-905-KJ-SO-	2212	107		115		123		103		106	
P3671-06	S-905-KJ-SO-	2216	108		109		113		106		108	
P3671-07	S-905-KJ-SO-	2219	109		119		137	*	103		107	
P3671-07	S-905-KJ-SO-	2222	108		110		114		105		107	
P3671-08	S-905-J-SO-	2225	108		117		135	*	102		105	
P3671-08	S-905-J-SO-	2228	109		112		114		106		106	
CCV08	CCV08	2231	110		109		108		100		107	
CCB08	CCB08	2250	103		108		105		104		102	
P3671-09	S-928-K1-SO-	2254	110		115		138	*	104		106	
P3671-09	S-928-K1-SO-	2257	112		111		114		107		107	
P3671-10	S-928-K1-SO-	2300	111		118		151	*	104		109	
P3671-10	S-928-K1-SO-	2303	110		110		116		106		106	
P3671-11	S-903-J-SO-	2306	106		114		128		101		105	
P3671-11	S-903-J-SO-	2309	110		110		112		104		105	
P3671-12	S-903-J-SO-	2312	109		117		127		100		106	
P3671-12	S-903-J-SO-	2315	111		113		113		106		107	
P3671-13	S-912-J-SO-	2319	110		111		122		104		106	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
P3671-13	S-912-J-SO-	2322	110		111		111		106		106	
CCV09	CCV09	2334	106		107		102		94		101	
CCB09	CCB09	2343	107		109		105		103		101	
P3671-14	S-912-J-SO-	2346	113		111		115		102		103	
P3671-14	S-912-J-SO-	2350	115		111		108		106		105	
P3671-14DUP	S-912-J-SO-	2353	114		112		116		105		107	
P3671-14DUP	S-912-J-SO-	2356	113		111		108		105		106	
P3671-14L	S-912-J-SO-	2359	111		108		109		107		105	
P3671-14L	S-912-J-SO-	0003	111		109		107		105		103	
P3671-14MS	S-912-J-SO-	0006	112		110		116		101		105	
P3671-14MS	S-912-J-SO-	0009	117		111		110		107		108	
P3671-14MSD	S-912-J-SO-	0012	117		112		116		103		106	
P3671-14MSD	S-912-J-SO-	0014	119		111		110		107		108	
CCV10	CCV10	0042	110		108		104		95		102	
CCB10	CCB10	0052	114		109		105		103		102	
P3671-14A	S-912-J-SO-	0055	118		113		116		100		105	
P3671-14A	S-912-J-SO-	0058	122		110		109		104		108	
ZZZZZZ	ZZZZZZ	0115										
CCV11	CCV11	0117	120		107		103		94		102	
CCB11	CCB11	0130	109		107		102		102		100	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1438	100		100		100		100		100	
S2	S2	1442	103		102		102		101		103	
S3	S3	1445	104		103		102		103		105	
S4	S4	1448	102		102		102		104		106	
S5	S5	1451	99		98		98		104		105	
S6	S6	1454	97		99		97		105		106	
S7	S7	1457	99		100		98		106		108	
S8	S8	1459	98		97		88		101		103	
ICV01	ICV01	1638	102		101		101		103		104	
LLICV	LLICV	1702	104		104		104		103		104	
ICB01	ICB01	1705	105		103		103		103		106	
ICSA01	ICSA01	1708	98		99		96		104		107	
ICSAB01	ICSAB01	1711	99		101		98		104		105	
CCV01	CCV01	1714	100		100		95		105		107	
CCB01	CCB01	1723	99		100		102		102		104	
CRI	CRI	1726	99		99		103		102		104	
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
ZZZZZZ	ZZZZZZ	1747										
ZZZZZZ	ZZZZZZ	1750										
ZZZZZZ	ZZZZZZ	1753										
ZZZZZZ	ZZZZZZ	1757										
ZZZZZZ	ZZZZZZ	1800										
CCV02	CCV02	1803	98		99		94		105		106	
CCB02	CCB02	1809	101		101		102		103		106	
ZZZZZZ	ZZZZZZ	1813										
ZZZZZZ	ZZZZZZ	1816										
ZZZZZZ	ZZZZZZ	1819										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1825										
ZZZZZZ	ZZZZZZ	1828										
ZZZZZZ	ZZZZZZ	1831										
ZZZZZZ	ZZZZZZ	1834										
ZZZZZZ	ZZZZZZ	1837										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	1840										
CCV03	CCV03	1843	101		99		95		105		109	
CCB03	CCB03	1849	102		102		104		104		106	
ZZZZZZ	ZZZZZZ	1855										
ZZZZZZ	ZZZZZZ	1858										
ZZZZZZ	ZZZZZZ	1902										
ZZZZZZ	ZZZZZZ	1905										
ZZZZZZ	ZZZZZZ	1908										
ZZZZZZ	ZZZZZZ	1911										
ZZZZZZ	ZZZZZZ	1914										
ZZZZZZ	ZZZZZZ	1917										
ZZZZZZ	ZZZZZZ	1921										
ZZZZZZ	ZZZZZZ	1924										
CCV04	CCV04	1927	100		100		96		105		107	
CCB04	CCB04	1933	103		105		106		105		106	
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1940										
ZZZZZZ	ZZZZZZ	1948										
ZZZZZZ	ZZZZZZ	1951										
ZZZZZZ	ZZZZZZ	1954										
ZZZZZZ	ZZZZZZ	1958										
ZZZZZZ	ZZZZZZ	2001										
ZZZZZZ	ZZZZZZ	2004										
ZZZZZZ	ZZZZZZ	2007										
ZZZZZZ	ZZZZZZ	2011										
CCV05	CCV05	2014	99		101		95		106		106	
CCB05	CCB05	2029	102		104		104		104		104	
ZZZZZZ	ZZZZZZ	2032										
ZZZZZZ	ZZZZZZ	2035										
ZZZZZZ	ZZZZZZ	2039										
ZZZZZZ	ZZZZZZ	2042										
ZZZZZZ	ZZZZZZ	2045										
ZZZZZZ	ZZZZZZ	2048										
ZZZZZZ	ZZZZZZ	2051										
ZZZZZZ	ZZZZZZ	2054										
ZZZZZZ	ZZZZZZ	2056										

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
ZZZZZZ	ZZZZZZ	2059										
CCV06	CCV06	2102	99		101		97		107		109	
CCB06	CCB06	2114	99		100		102		102		104	
ZZZZZZ	ZZZZZZ	2117										
ZZZZZZ	ZZZZZZ	2120										
PB162888BL	PB162888BL	2122	98		101		101		103		104	
PB162888BS	PB162888BS	2126	98		101		100		105		108	
P3671-01	S-904-J-SO-	2129	107		127		102		108		109	
P3671-01	S-904-J-SO-	2132	102		107		103		106		108	
P3671-02	S-904-J-SO-	2135	115		138	*	102		110		112	
P3671-02	S-904-J-SO-	2138	106		113		106		107		107	
P3671-03	S-911-K1-SO-	2141	105		115		104		107		108	
P3671-03	S-911-K1-SO-	2144	104		106		106		107		108	
CCV07	CCV07	2147	101		103		96		104		108	
CCB07	CCB07	2155	103		105		105		106		107	
P3671-04	S-911-K1-SO-	2200	109		136	*	105		109		110	
P3671-04	S-911-K1-SO-	2203	105		112		107		109		109	
P3671-05	S-911-K1-SO-	2206	107		130		106		108		109	
P3671-05	S-911-K1-SO-	2209	104		110		106		107		109	
P3671-06	S-905-KJ-SO-	2212	110		126		105		108		110	
P3671-06	S-905-KJ-SO-	2216	107		113		108		109		110	
P3671-07	S-905-KJ-SO-	2219	114		135	*	103		110		112	
P3671-07	S-905-KJ-SO-	2222	105		112		106		107		108	
P3671-08	S-905-J-SO-	2225	113		134	*	102		107		111	
P3671-08	S-905-J-SO-	2228	107		114		108		109		111	
CCV08	CCV08	2231	101		105		98		108		110	
CCB08	CCB08	2250	104		105		107		105		105	
P3671-09	S-928-K1-SO-	2254	109		138	*	106		109		112	
P3671-09	S-928-K1-SO-	2257	105		113		106		108		110	
P3671-10	S-928-K1-SO-	2300	111		150	*	106		113		115	
P3671-10	S-928-K1-SO-	2303	105		117		107		109		111	
P3671-11	S-903-J-SO-	2306	111		128		102		107		109	
P3671-11	S-903-J-SO-	2309	105		112		107		108		108	
P3671-12	S-903-J-SO-	2312	115		130		104		111		114	
P3671-12	S-903-J-SO-	2315	106		114		106		108		110	
P3671-13	S-912-J-SO-	2319	106		122		108		110		110	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
P3671-13	S-912-J-SO-	2322	106		111		108		109		110	
CCV09	CCV09	2334	98		101		95		103		105	
CCB09	CCB09	2343	102		105		106		104		107	
P3671-14	S-912-J-SO-	2346	103		115		104		108		110	
P3671-14	S-912-J-SO-	2350	103		108		107		108		110	
P3671-14DUP	S-912-J-SO-	2353	105		116		105		110		111	
P3671-14DUP	S-912-J-SO-	2356	102		109		107		107		110	
P3671-14L	S-912-J-SO-	2359	103		107		106		109		109	
P3671-14L	S-912-J-SO-	0003	102		107		108		106		109	
P3671-14MS	S-912-J-SO-	0006	102		114		102		109		111	
P3671-14MS	S-912-J-SO-	0009	101		108		106		109		111	
P3671-14MSD	S-912-J-SO-	0012	102		112		102		110		111	
P3671-14MSD	S-912-J-SO-	0014	102		108		106		110		110	
CCV10	CCV10	0042	99		103		96		106		107	
CCB10	CCB10	0052	100		105		105		104		106	
P3671-14A	S-912-J-SO-	0055	101		112		103		109		110	
P3671-14A	S-912-J-SO-	0058	101		107		104		109		111	
ZZZZZZ	ZZZZZZ	0115										
CCV11	CCV11	0117	96		100		95		104		109	
CCB11	CCB11	0130	100		105		106		107		108	

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1438	100		100							
S2	S2	1442	103		103							
S3	S3	1445	104		104							
S4	S4	1448	104		103							
S5	S5	1451	105		105							
S6	S6	1454	107		105							
S7	S7	1457	107		104							
S8	S8	1459	104		93							
ICV01	ICV01	1638	105		107							
LLICV	LLICV	1702	103		105							
ICB01	ICB01	1705	104		105							
ICSA01	ICSA01	1708	107		104							
ICSAB01	ICSAB01	1711	108		105							
CCV01	CCV01	1714	108		104							
CCB01	CCB01	1723	103		106							
CRI	CRI	1726	103		105							
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
ZZZZZZ	ZZZZZZ	1747										
ZZZZZZ	ZZZZZZ	1750										
ZZZZZZ	ZZZZZZ	1753										
ZZZZZZ	ZZZZZZ	1757										
ZZZZZZ	ZZZZZZ	1800										
CCV02	CCV02	1803	106		102							
CCB02	CCB02	1809	103		106							
ZZZZZZ	ZZZZZZ	1813										
ZZZZZZ	ZZZZZZ	1816										
ZZZZZZ	ZZZZZZ	1819										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1825										
ZZZZZZ	ZZZZZZ	1828										
ZZZZZZ	ZZZZZZ	1831										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1834										
ZZZZZZ	ZZZZZZ	1837										
ZZZZZZ	ZZZZZZ	1840										
CCV03	CCV03	1843	107		103							
CCB03	CCB03	1849	101		105							
ZZZZZZ	ZZZZZZ	1855										
ZZZZZZ	ZZZZZZ	1858										
ZZZZZZ	ZZZZZZ	1902										
ZZZZZZ	ZZZZZZ	1905										
ZZZZZZ	ZZZZZZ	1908										
ZZZZZZ	ZZZZZZ	1911										
ZZZZZZ	ZZZZZZ	1914										
ZZZZZZ	ZZZZZZ	1917										
ZZZZZZ	ZZZZZZ	1921										
ZZZZZZ	ZZZZZZ	1924										
CCV04	CCV04	1927	107		102							
CCB04	CCB04	1933	104		107							
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1940										
ZZZZZZ	ZZZZZZ	1948										
ZZZZZZ	ZZZZZZ	1951										
ZZZZZZ	ZZZZZZ	1954										
ZZZZZZ	ZZZZZZ	1958										
ZZZZZZ	ZZZZZZ	2001										
ZZZZZZ	ZZZZZZ	2004										
ZZZZZZ	ZZZZZZ	2007										
ZZZZZZ	ZZZZZZ	2011										
CCV05	CCV05	2014	106		102							
CCB05	CCB05	2029	99		104							
ZZZZZZ	ZZZZZZ	2032										
ZZZZZZ	ZZZZZZ	2035										
ZZZZZZ	ZZZZZZ	2039										
ZZZZZZ	ZZZZZZ	2042										
ZZZZZZ	ZZZZZZ	2045										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	2048										
ZZZZZZ	ZZZZZZ	2051										
ZZZZZZ	ZZZZZZ	2054										
ZZZZZZ	ZZZZZZ	2056										
ZZZZZZ	ZZZZZZ	2059										
CCV06	CCV06	2102	107		103							
CCB06	CCB06	2114	100		106							
ZZZZZZ	ZZZZZZ	2117										
ZZZZZZ	ZZZZZZ	2120										
PB162888BL	PB162888BL	2122	103		108							
PB162888BS	PB162888BS	2126	105		105							
P3671-01	S-904-J-SO-C	2129	104		106							
P3671-01	S-904-J-SO-C	2132	105		108							
P3671-02	S-904-J-SO-C	2135	107		105							
P3671-02	S-904-J-SO-C	2138	107		108							
P3671-03	S-911-K1-SO-	2141	105		105							
P3671-03	S-911-K1-SO-	2144	107		109							
CCV07	CCV07	2147	106		101							
CCB07	CCB07	2155	106		109							
P3671-04	S-911-K1-SO-	2200	106		106							
P3671-04	S-911-K1-SO-	2203	108		109							
P3671-05	S-911-K1-SO-	2206	111		111							
P3671-05	S-911-K1-SO-	2209	103		104							
P3671-06	S-905-KJ-SO-	2212	106		103							
P3671-06	S-905-KJ-SO-	2216	108		108							
P3671-07	S-905-KJ-SO-	2219	108		106							
P3671-07	S-905-KJ-SO-	2222	108		109							
P3671-08	S-905-J-SO-C	2225	106		103							
P3671-08	S-905-J-SO-C	2228	108		108							
CCV08	CCV08	2231	108		103							
CCB08	CCB08	2250	101		105							
P3671-09	S-928-K1-SO-	2254	107		106							
P3671-09	S-928-K1-SO-	2257	106		109							
P3671-10	S-928-K1-SO-	2300	109		109							

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
P3671-10	S-928-K1-SO-	2303	107		110							
P3671-11	S-903-J-SO-(	2306	104		102							
P3671-11	S-903-J-SO-(	2309	106		107							
P3671-12	S-903-J-SO-(	2312	106		103							
P3671-12	S-903-J-SO-(	2315	108		109							
P3671-13	S-912-J-SO-(	2319	106		107							
P3671-13	S-912-J-SO-(	2322	107		109							
CCV09	CCV09	2334	102		97							
CCB09	CCB09	2343	103		105							
P3671-14	S-912-J-SO-(	2346	105		106							
P3671-14	S-912-J-SO-(	2350	105		109							
P3671-14DUP	S-912-J-SO-(	2353	107		107							
P3671-14DUP	S-912-J-SO-(	2356	105		107							
P3671-14L	S-912-J-SO-(	2359	106		108							
P3671-14L	S-912-J-SO-(	0003	104		109							
P3671-14MS	S-912-J-SO-(	0006	107		105							
P3671-14MS	S-912-J-SO-(	0009	108		111							
P3671-14MSD	S-912-J-SO-(	0012	107		106							
P3671-14MSD	S-912-J-SO-(	0014	108		111							
CCV10	CCV10	0042	103		98							
CCB10	CCB10	0052	102		106							
P3671-14A	S-912-J-SO-(	0055	107		105							
P3671-14A	S-912-J-SO-(	0058	108		111							
ZZZZZZ	ZZZZZZ	0115										
CCV11	CCV11	0117	104		100							
CCB11	CCB11	0130	102		102							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1438	100									
S2	S2	1442	102									
S3	S3	1445	103									
S4	S4	1448	104									
S5	S5	1451	102									
S6	S6	1454	101									
S7	S7	1457	102									
S8	S8	1459	92									
ICV01	ICV01	1638	105									
LLICV	LLICV	1702	104									
ICB01	ICB01	1705	105									
ICSA01	ICSA01	1708	102									
ICSAB01	ICSAB01	1711	100									
CCV01	CCV01	1714	100									
CCB01	CCB01	1723	104									
CRI	CRI	1726	103									
ZZZZZZ	ZZZZZZ	1731										
ZZZZZZ	ZZZZZZ	1734										
ZZZZZZ	ZZZZZZ	1741										
ZZZZZZ	ZZZZZZ	1744										
ZZZZZZ	ZZZZZZ	1747										
ZZZZZZ	ZZZZZZ	1750										
ZZZZZZ	ZZZZZZ	1753										
ZZZZZZ	ZZZZZZ	1757										
ZZZZZZ	ZZZZZZ	1800										
CCV02	CCV02	1803	100									
CCB02	CCB02	1809	106									
ZZZZZZ	ZZZZZZ	1813										
ZZZZZZ	ZZZZZZ	1816										
ZZZZZZ	ZZZZZZ	1819										
ZZZZZZ	ZZZZZZ	1822										
ZZZZZZ	ZZZZZZ	1825										
ZZZZZZ	ZZZZZZ	1828										
ZZZZZZ	ZZZZZZ	1831										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	1834										
ZZZZZZ	ZZZZZZ	1837										
ZZZZZZ	ZZZZZZ	1840										
CCV03	CCV03	1843	101									
CCB03	CCB03	1849	108									
ZZZZZZ	ZZZZZZ	1855										
ZZZZZZ	ZZZZZZ	1858										
ZZZZZZ	ZZZZZZ	1902										
ZZZZZZ	ZZZZZZ	1905										
ZZZZZZ	ZZZZZZ	1908										
ZZZZZZ	ZZZZZZ	1911										
ZZZZZZ	ZZZZZZ	1914										
ZZZZZZ	ZZZZZZ	1917										
ZZZZZZ	ZZZZZZ	1921										
ZZZZZZ	ZZZZZZ	1924										
CCV04	CCV04	1927	100									
CCB04	CCB04	1933	108									
ZZZZZZ	ZZZZZZ	1937										
ZZZZZZ	ZZZZZZ	1940										
ZZZZZZ	ZZZZZZ	1948										
ZZZZZZ	ZZZZZZ	1951										
ZZZZZZ	ZZZZZZ	1954										
ZZZZZZ	ZZZZZZ	1958										
ZZZZZZ	ZZZZZZ	2001										
ZZZZZZ	ZZZZZZ	2004										
ZZZZZZ	ZZZZZZ	2007										
ZZZZZZ	ZZZZZZ	2011										
CCV05	CCV05	2014	100									
CCB05	CCB05	2029	105									
ZZZZZZ	ZZZZZZ	2032										
ZZZZZZ	ZZZZZZ	2035										
ZZZZZZ	ZZZZZZ	2039										
ZZZZZZ	ZZZZZZ	2042										
ZZZZZZ	ZZZZZZ	2045										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
ZZZZZZ	ZZZZZZ	2048										
ZZZZZZ	ZZZZZZ	2051										
ZZZZZZ	ZZZZZZ	2054										
ZZZZZZ	ZZZZZZ	2056										
ZZZZZZ	ZZZZZZ	2059										
CCV06	CCV06	2102	102									
CCB06	CCB06	2114	106									
ZZZZZZ	ZZZZZZ	2117										
ZZZZZZ	ZZZZZZ	2120										
PB162888BL	PB162888BL	2122	105									
PB162888BS	PB162888BS	2126	105									
P3671-01	S-904-J-SO-C	2129	106									
P3671-01	S-904-J-SO-C	2132	108									
P3671-02	S-904-J-SO-C	2135	107									
P3671-02	S-904-J-SO-C	2138	109									
P3671-03	S-911-K1-SO-	2141	108									
P3671-03	S-911-K1-SO-	2144	110									
CCV07	CCV07	2147	103									
CCB07	CCB07	2155	109									
P3671-04	S-911-K1-SO-	2200	109									
P3671-04	S-911-K1-SO-	2203	110									
P3671-05	S-911-K1-SO-	2206	109									
P3671-05	S-911-K1-SO-	2209	109									
P3671-06	S-905-KJ-SO-	2212	106									
P3671-06	S-905-KJ-SO-	2216	110									
P3671-07	S-905-KJ-SO-	2219	107									
P3671-07	S-905-KJ-SO-	2222	108									
P3671-08	S-905-J-SO-C	2225	105									
P3671-08	S-905-J-SO-C	2228	111									
CCV08	CCV08	2231	103									
CCB08	CCB08	2250	107									
P3671-09	S-928-K1-SO-	2254	109									
P3671-09	S-928-K1-SO-	2257	110									
P3671-10	S-928-K1-SO-	2300	110									

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: P3671

Sas No.: P3671 SDG No.: P3671

Instrument ID: P7

Start Date : 08/25/2024

Run Number: LB132155

End Date : 08/26/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
P3671-10	S-928-K1-SO-	2303	110									
P3671-11	S-903-J-SO-(	2306	106									
P3671-11	S-903-J-SO-(	2309	109									
P3671-12	S-903-J-SO-(	2312	109									
P3671-12	S-903-J-SO-(	2315	108									
P3671-13	S-912-J-SO-(	2319	109									
P3671-13	S-912-J-SO-(	2322	112									
CCV09	CCV09	2334	98									
CCB09	CCB09	2343	108									
P3671-14	S-912-J-SO-(	2346	107									
P3671-14	S-912-J-SO-(	2350	111									
P3671-14DUP	S-912-J-SO-(	2353	110									
P3671-14DUP	S-912-J-SO-(	2356	109									
P3671-14L	S-912-J-SO-(	2359	111									
P3671-14L	S-912-J-SO-(	0003	110									
P3671-14MS	S-912-J-SO-(	0006	108									
P3671-14MS	S-912-J-SO-(	0009	112									
P3671-14MSD	S-912-J-SO-(	0012	109									
P3671-14MSD	S-912-J-SO-(	0014	111									
CCV10	CCV10	0042	100									
CCB10	CCB10	0052	107									
P3671-14A	S-912-J-SO-(	0055	107									
P3671-14A	S-912-J-SO-(	0058	113									
ZZZZZZ	ZZZZZZ	0115										
CCV11	CCV11	0117	100									
CCB11	CCB11	0130	109									

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

S-904-J-SO-0-0.5-081924

Lab Name: Chemtech Consulting Group

Contract: JACO05

Lab Code: CHEM

Lb No.: lb132152

Lab Sample ID : P3671-01L

SDG No.: P3671

Matrix (soil/water): Solid

Level (low/med): LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.51	0.57	11		CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

S-912-J-SO-0.5-1-081924L

Lab Name: Chemtech Consulting Group **Contract:** JACO05
Lab Code: CHEM **Lb No.:** lb132155 **Lab Sample ID :** P3671-14L **SDG No.:** P3671
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
Aluminum	4900		4600		6		P
Antimony	0.26	J	0.24	J	7		P
Arsenic	3.60		3.41		5		P
Barium	77.7		70.0		10		P
Beryllium	0.42		0.35	J	18		P
Cadmium	0.26		0.71	U	100.0		P
Calcium	3140		2940		6		P
Chromium	11.5		10.5		9		P
Cobalt	0.68		0.62	J	9		P
Copper	20.7		18.7		10		P
Iron	3320		3100		7		P
Lead	52.1		44.6		14		P
Magnesium	557		513		8		P
Manganese	766		704		8		P
Nickel	4.59		3.96		14		P
Potassium	250		222	J	11		P
Selenium	0.99		1.43	J	44		P
Silver	0.13	J	0.71	U	100.0		P
Sodium	1010		978		3		P
Thallium	0.060	J	0.71	U	100.0		P
Vanadium	9.59		8.98		6		P
Zinc	22.8		21.1		7		P



METAL PREPARATION & INSTRUMENT DATA

METAL PREPARATION & ANALYICAL SUMMARY

Metals
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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Method:

Case No.: P3671

SAS No.: P3671

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB162888							
P3671-01	S-904-J-SO-0-0.5-081924	SAM	SOLID	08/21/2024	1.47	100.0	71.30
P3671-02	S-904-J-SO-0.5-1.0-081924	SAM	SOLID	08/21/2024	1.46	100.0	79.70
P3671-03	S-911-K1-SO-0-0.5-081924	SAM	SOLID	08/21/2024	1.45	100.0	46.90
P3671-04	S-911-K1-SO-0.5-1-081924	SAM	SOLID	08/21/2024	1.20	100.0	56.00
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SAM	SOLID	08/21/2024	1.44	100.0	35.00
P3671-06	S-905-KJ-SO-0-0.5-081924	SAM	SOLID	08/21/2024	1.46	100.0	78.20
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SAM	SOLID	08/21/2024	1.47	100.0	76.60
P3671-08	S-905-J-SO-0.5-1.0-081924	SAM	SOLID	08/21/2024	1.30	100.0	82.00
P3671-09	S-928-K1-SO-0-0.5-081924	SAM	SOLID	08/21/2024	1.33	100.0	48.00
P3671-10	S-928-K1-SO-0.5-1-081924	SAM	SOLID	08/21/2024	1.41	100.0	57.20
P3671-11	S-903-J-SO-0-0.5-081924	SAM	SOLID	08/21/2024	1.29	100.0	83.50
P3671-12	S-903-J-SO-0.5-1.0-081924	SAM	SOLID	08/21/2024	1.40	100.0	85.80
P3671-13	S-912-J-SO-0-0.5-081924	SAM	SOLID	08/21/2024	1.41	100.0	30.60
P3671-14	S-912-J-SO-0.5-1-081924	SAM	SOLID	08/21/2024	1.37	100.0	51.50
P3671-14DUP	S-912-J-SO-0.5-1-081924DUP	DUP	SOLID	08/21/2024	1.38	100.0	51.50
P3671-14MS	S-912-J-SO-0.5-1-081924MS	MS	SOLID	08/21/2024	1.40	100.0	51.50
P3671-14MSD	S-912-J-SO-0.5-1-081924MSD	MSD	SOLID	08/21/2024	1.41	100.0	51.50
PB162888BL	PB162888BL	MB	SOLID	08/21/2024	1.00	100.0	100.00
PB162888BS	PB162888BS	LCS	SOLID	08/21/2024	1.00	100.0	100.00

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: P3671

Contract: JACO05

Lab Code: CHEM

Method:

Case No.: P3671

SAS No.: P3671

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB162977							
P3671-01	S-904-J-SO-0-0.5-081924	SAM	SOLID	08/23/2024	0.55	35.0	71.30
P3671-01DUP	S-904-J-SO-0-0.5-081924	DUP	SOLID	08/23/2024	0.57	35.0	71.30
P3671-01MS	S-904-J-SO-0-0.5-081924MS	MS	SOLID	08/23/2024	0.58	35.0	71.30
P3671-01MSD	S-904-J-SO-0-0.5-081924MSD	MSD	SOLID	08/23/2024	0.54	35.0	71.30
P3671-02	S-904-J-SO-0.5-1.0-081924	SAM	SOLID	08/23/2024	0.53	35.0	79.70
P3671-03	S-911-K1-SO-0-0.5-081924	SAM	SOLID	08/23/2024	0.50	35.0	46.90
P3671-04	S-911-K1-SO-0.5-1-081924	SAM	SOLID	08/23/2024	0.52	35.0	56.00
P3671-05	S-911-K1-SO-0-0.5-081924-FD	SAM	SOLID	08/23/2024	0.53	35.0	35.00
P3671-06	S-905-KJ-SO-0-0.5-081924	SAM	SOLID	08/23/2024	0.57	35.0	78.20
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	SAM	SOLID	08/23/2024	0.58	35.0	76.60
P3671-08	S-905-J-SO-0.5-1.0-081924	SAM	SOLID	08/23/2024	0.54	35.0	82.00
P3671-09	S-928-K1-SO-0-0.5-081924	SAM	SOLID	08/23/2024	0.55	35.0	48.00
P3671-10	S-928-K1-SO-0.5-1-081924	SAM	SOLID	08/23/2024	0.59	35.0	57.20
P3671-11	S-903-J-SO-0-0.5-081924	SAM	SOLID	08/23/2024	0.57	35.0	83.50
P3671-12	S-903-J-SO-0.5-1.0-081924	SAM	SOLID	08/23/2024	0.52	35.0	85.80
P3671-13	S-912-J-SO-0-0.5-081924	SAM	SOLID	08/23/2024	0.51	35.0	30.60
P3671-14	S-912-J-SO-0.5-1-081924	SAM	SOLID	08/23/2024	0.54	35.0	51.50
PB162977BL	PB162977BL	MB	SOLID	08/23/2024	0.50	35.0	100.00
PB162977BS	PB162977BS	LCS	SOLID	08/23/2024	0.52	35.0	100.00

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** P3671 **Sas no.:** P3671

Sdg no.: P3671

Instrument id number: _____ **Method:** _____

Run number: LB132152

Start date: 08/24/2024 **End date:** 08/24/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	0925	HG
S0.2	S0.2	1	0927	HG
S2.5	S2.5	1	0929	HG
S5	S5	1	0932	HG
S7.5	S7.5	1	0934	HG
S10	S10	1	0936	HG
ICV95	ICV95	1	0939	HG
ICB95	ICB95	1	0942	HG
CCV21	CCV21	1	0944	HG
CCB21	CCB21	1	0946	HG
CRA	CRA	1	0949	HG
CCV22	CCV22	1	1012	HG
CCB22	CCB22	1	1014	HG
CCV23	CCV23	1	1040	HG
CCB23	CCB23	1	1042	HG
PB162977BL	PB162977BL	1	1058	HG
PB162977BS	PB162977BS	1	1101	HG
P3671-01	S-904-J-SO-0-0.5-081924	1	1110	HG
P3671-01DUP	S-904-J-SO-0-0.5-081924	1	1112	HG
CCV24	CCV24	1	1115	HG
CCB24	CCB24	1	1117	HG
P3671-01MS	S-904-J-SO-0-0.5-081924MS	1	1119	HG
P3671-01MSD	S-904-J-SO-0-0.5-081924MSD	1	1121	HG
P3671-02	S-904-J-SO-0.5-1.0-081924	1	1124	HG
P3671-03	S-911-K1-SO-0-0.5-081924	1	1126	HG
P3671-04	S-911-K1-SO-0.5-1-081924	1	1128	HG
P3671-05	S-911-K1-SO-0-0.5-081924-FD	1	1131	HG
P3671-09	S-928-K1-SO-0-0.5-081924	1	1140	HG
CCV25	CCV25	1	1143	HG
CCB25	CCB25	1	1145	HG
P3671-10	S-928-K1-SO-0.5-1-081924	1	1148	HG
P3671-11	S-903-J-SO-0-0.5-081924	1	1150	HG
P3671-12	S-903-J-SO-0.5-1.0-081924	1	1152	HG
P3671-13	S-912-J-SO-0-0.5-081924	1	1154	HG
P3671-14	S-912-J-SO-0.5-1-081924	1	1157	HG
CCV26	CCV26	1	1211	HG
CCB26	CCB26	1	1213	HG
CCV27	CCV27	1	1238	HG
CCB27	CCB27	1	1240	HG
CCV28	CCV28	1	1306	HG
CCB28	CCB28	1	1308	HG

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** P3671 **Sas no.:** P3671

Sdg no.: P3671

Instrument id number: **Method:**

Run number: LB132152

Start date: 08/24/2024 **End date:** 08/24/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
P3671-01L	S-904-J-SO-0-0.5-081924	5	1319	HG
P3671-01A	S-904-J-SO-0-0.5-081924	1	1322	HG
CCV29	CCV29	1	1329	HG
CCB29	CCB29	1	1331	HG
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	5	1342	HG
P3671-06	S-905-KJ-SO-0-0.5-081924	5	1345	HG
P3671-08	S-905-J-SO-0.5-1.0-081924	10	1347	HG
CCV30	CCV30	1	1349	HG
CCB30	CCB30	1	1352	HG

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM

Case no.: P3671

Sas no.: P3671

Sdg no.: P3671

Instrument id number:

Method:

Run number: LB132155

Start date: 08/25/2024

End date: 08/26/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1438	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1442	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1445	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1448	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1451	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1454	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1457	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1459	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1638	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV	LLICV	1	1702	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1705	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1708	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1711	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1714	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1726	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1803	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1809	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1843	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1849	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1927	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1933	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV05	CCV05	1	2014	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2029	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2102	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2114	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB162888BL	PB162888BL	1	2122	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB162888BS	PB162888BS	1	2126	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-01	S-904-J-SO-0-0.5-081924	1	2129	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-02	S-904-J-SO-0.5-1.0-081924	1	2135	Ag,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-02	S-904-J-SO-0.5-1.0-081924	5	2138	Al,As,Se
P3671-03	S-911-K1-SO-0-0.5-081924	1	2141	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2147	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2155	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-04	S-911-K1-SO-0.5-1-081924	1	2200	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-04	S-911-K1-SO-0.5-1-081924	5	2203	As,Mn,Se
P3671-05	S-911-K1-SO-0-0.5-081924-FD	1	2206	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-05	S-911-K1-SO-0-0.5-081924-FD	5	2209	Se
P3671-06	S-905-KJ-SO-0-0.5-081924	1	2212	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	1	2219	Ag,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-07	S-905-KJ-SO-0-0.5-081924-FD	5	2222	Al,As,Se

metals
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ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** P3671 **Sas no.:** P3671

Sdg no.: P3671

Instrument id number: **Method:**

Run number: LB132155

Start date: 08/25/2024 **End date:** 08/26/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
P3671-08	S-905-J-SO-0.5-1.0-081924	1	2225	Ag,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-08	S-905-J-SO-0.5-1.0-081924	5	2228	Al,As,Se
CCV08	CCV08	1	2231	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2250	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-09	S-928-K1-SO-0-0.5-081924	1	2254	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-09	S-928-K1-SO-0-0.5-081924	5	2257	As,Mn,Se
P3671-10	S-928-K1-SO-0.5-1-081924	1	2300	Ag,Al,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Na,Ni,Pb,Sb,Tl,V,Zn
P3671-10	S-928-K1-SO-0.5-1-081924	5	2303	As,Mn,Se
P3671-11	S-903-J-SO-0-0.5-081924	1	2306	Ag,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-11	S-903-J-SO-0-0.5-081924	5	2309	Al
P3671-12	S-903-J-SO-0.5-1.0-081924	1	2312	Ag,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-12	S-903-J-SO-0.5-1.0-081924	5	2315	Al,Fe
P3671-13	S-912-J-SO-0-0.5-081924	1	2319	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV09	CCV09	1	2334	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB09	CCB09	1	2343	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-14	S-912-J-SO-0.5-1-081924	1	2346	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-14DUP	S-912-J-SO-0.5-1-081924DUP	1	2353	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-14L	S-912-J-SO-0.5-1-081924L	5	2359	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-14MS	S-912-J-SO-0.5-1-081924MS	1	0006	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-14MSD	S-912-J-SO-0.5-1-081924MSD	1	0012	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV10	CCV10	1	0042	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB10	CCB10	1	0052	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P3671-14A	S-912-J-SO-0.5-1-081924A	1	0055	Ag,Al
CCV11	CCV11	1	0117	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB11	CCB11	1	0130	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn