



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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Louis Berger U.S., Inc., A WSP Company

SDG No.: O1233

Contract: loui01

Lab Code: CHEM

Case No.: O1233

SAS No.: O1233

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
ICV15	Mercury	4.01	4.0	100	90 - 110	CV	01/24/2023	10:47	LB123775



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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	Mercury	4.98	5.0	100	90 - 110	CV	01/24/2023	10:52	LB123775
CCV09	Mercury	5.02	5.0	100	90 - 110	CV	01/24/2023	11:24	LB123775
CCV10	Mercury	4.83	5.0	97	90 - 110	CV	01/24/2023	11:51	LB123775
CCV11	Mercury	5.00	5.0	100	90 - 110	CV	01/24/2023	12:19	LB123775
CCV12	Mercury	5.04	5.0	101	90 - 110	CV	01/24/2023	12:46	LB123775



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SAS No.: O1233

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Arsenic	1040	1000	104	90 - 110	P	01/25/2023	12:15	LB123806
	Barium	498	520	96	90 - 110	P	01/25/2023	12:15	LB123806
	Cadmium	507	510	99	90 - 110	P	01/25/2023	12:15	LB123806
	Chromium	530	520	102	90 - 110	P	01/25/2023	12:15	LB123806
	Lead	1010	1000	101	90 - 110	P	01/25/2023	12:15	LB123806
	Selenium	1040	1000	104	90 - 110	P	01/25/2023	12:15	LB123806
	Silver	257	250	103	90 - 110	P	01/25/2023	12:15	LB123806



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Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Arsenic	4970	5000	100	90 - 110	P	01/25/2023	12:57	LB123806
	Barium	9770	10000	98	90 - 110	P	01/25/2023	12:57	LB123806
	Cadmium	2490	2500	100	90 - 110	P	01/25/2023	12:57	LB123806
	Chromium	1040	1000	104	90 - 110	P	01/25/2023	12:57	LB123806
	Lead	4960	5000	99	90 - 110	P	01/25/2023	12:57	LB123806
	Selenium	4960	5000	99	90 - 110	P	01/25/2023	12:57	LB123806
	Silver	1280	1250	102	90 - 110	P	01/25/2023	12:57	LB123806



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SDG No.: O1233

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Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLCCV01	Arsenic	22.9	20.0	115	80 - 120	P	01/25/2023	13:00	LB123806
	Barium	106	100	106	80 - 120	P	01/25/2023	13:00	LB123806
	Cadmium	6.48	6.0	108	80 - 120	P	01/25/2023	13:00	LB123806
	Chromium	10.9	10.0	109	80 - 120	P	01/25/2023	13:00	LB123806
	Lead	13.2	12.0	110	80 - 120	P	01/25/2023	13:00	LB123806
	Selenium	17.8	20.0	89	80 - 120	P	01/25/2023	13:00	LB123806
	Silver	10.7	10.0	107	80 - 120	P	01/25/2023	13:00	LB123806



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Contract: louie01 **Lab Code:** CHEM **Case No.:** O1233 **SAS No.:** O1233
Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Arsenic	4830	5000	96	90 - 110	P	01/25/2023	13:48	LB123806
	Barium	9480	10000	95	90 - 110	P	01/25/2023	13:48	LB123806
	Cadmium	2400	2500	96	90 - 110	P	01/25/2023	13:48	LB123806
	Chromium	995	1000	100	90 - 110	P	01/25/2023	13:48	LB123806
	Lead	4770	5000	95	90 - 110	P	01/25/2023	13:48	LB123806
	Selenium	4810	5000	96	90 - 110	P	01/25/2023	13:48	LB123806
	Silver	1220	1250	97	90 - 110	P	01/25/2023	13:48	LB123806
CCV03	Arsenic	4920	5000	98	90 - 110	P	01/25/2023	14:39	LB123806
	Barium	9600	10000	96	90 - 110	P	01/25/2023	14:39	LB123806
	Cadmium	2420	2500	97	90 - 110	P	01/25/2023	14:39	LB123806
	Chromium	978	1000	98	90 - 110	P	01/25/2023	14:39	LB123806
	Lead	4800	5000	96	90 - 110	P	01/25/2023	14:39	LB123806
	Selenium	4910	5000	98	90 - 110	P	01/25/2023	14:39	LB123806
	Silver	1200	1250	96	90 - 110	P	01/25/2023	14:39	LB123806
CCV04	Arsenic	5120	5000	102	90 - 110	P	01/25/2023	15:32	LB123806
	Barium	10100	10000	101	90 - 110	P	01/25/2023	15:32	LB123806
	Cadmium	2530	2500	101	90 - 110	P	01/25/2023	15:32	LB123806
	Chromium	1040	1000	104	90 - 110	P	01/25/2023	15:32	LB123806
	Lead	4990	5000	100	90 - 110	P	01/25/2023	15:32	LB123806
	Selenium	5080	5000	102	90 - 110	P	01/25/2023	15:32	LB123806
	Silver	1310	1250	105	90 - 110	P	01/25/2023	15:32	LB123806
CCV05	Arsenic	5150	5000	103	90 - 110	P	01/25/2023	16:20	LB123806
	Barium	10300	10000	103	90 - 110	P	01/25/2023	16:20	LB123806
	Cadmium	2560	2500	102	90 - 110	P	01/25/2023	16:20	LB123806
	Chromium	1020	1000	102	90 - 110	P	01/25/2023	16:20	LB123806
	Lead	4990	5000	100	90 - 110	P	01/25/2023	16:20	LB123806
	Selenium	5070	5000	101	90 - 110	P	01/25/2023	16:20	LB123806
	Silver	1260	1250	101	90 - 110	P	01/25/2023	16:20	LB123806
CCV06	Arsenic	4870	5000	98	90 - 110	P	01/25/2023	17:19	LB123806
	Barium	9950	10000	100	90 - 110	P	01/25/2023	17:19	LB123806
	Cadmium	2430	2500	97	90 - 110	P	01/25/2023	17:19	LB123806
	Chromium	958	1000	96	90 - 110	P	01/25/2023	17:19	LB123806
	Lead	4680	5000	94	90 - 110	P	01/25/2023	17:19	LB123806
	Selenium	4740	5000	95	90 - 110	P	01/25/2023	17:19	LB123806



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Initial Calibration Source: EPA
Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Silver	1170	1250	94	90 - 110	P	01/25/2023	17:19	LB123806
CCV07	Arsenic	4890	5000	98	90 - 110	P	01/25/2023	18:09	LB123806
	Barium	9710	10000	97	90 - 110	P	01/25/2023	18:09	LB123806
	Cadmium	2430	2500	97	90 - 110	P	01/25/2023	18:09	LB123806
	Chromium	968	1000	97	90 - 110	P	01/25/2023	18:09	LB123806
	Lead	4690	5000	94	90 - 110	P	01/25/2023	18:09	LB123806
	Selenium	4760	5000	95	90 - 110	P	01/25/2023	18:09	LB123806
	Silver	1190	1250	95	90 - 110	P	01/25/2023	18:09	LB123806
CCV08	Arsenic	4900	5000	98	90 - 110	P	01/25/2023	18:44	LB123806
	Barium	9630	10000	96	90 - 110	P	01/25/2023	18:44	LB123806
	Cadmium	2450	2500	98	90 - 110	P	01/25/2023	18:44	LB123806
	Chromium	963	1000	96	90 - 110	P	01/25/2023	18:44	LB123806
	Lead	4670	5000	93	90 - 110	P	01/25/2023	18:44	LB123806
	Selenium	4730	5000	95	90 - 110	P	01/25/2023	18:44	LB123806
	Silver	1190	1250	95	90 - 110	P	01/25/2023	18:44	LB123806