

Metals

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
ICS Source: EPA **Instrument ID:** P4

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	254000	255000	100	216000	294000	03/14/2024	13:00	LB129894
	Antimony	-2.19			-50	50	03/14/2024	13:00	LB129894
	Arsenic	8.36			-20	20	03/14/2024	13:00	LB129894
	Barium	6.10	6.0	102	-94	106	03/14/2024	13:00	LB129894
	Beryllium	1.07			-6	6	03/14/2024	13:00	LB129894
	Cadmium	3.29	1.0	329	-5	7	03/14/2024	13:00	LB129894
	Calcium	245000	245000	100	208000	282000	03/14/2024	13:00	LB129894
	Chromium	55.9	52.0	108	42	62	03/14/2024	13:00	LB129894
	Cobalt	2.84			-30	30	03/14/2024	13:00	LB129894
	Copper	0.43	2.0	21	-18	22	03/14/2024	13:00	LB129894
	Iron	97400	101000	96	85600	116500	03/14/2024	13:00	LB129894
	Lead	-5.25			-12	12	03/14/2024	13:00	LB129894
	Magnesium	253000	255000	99	216000	294000	03/14/2024	13:00	LB129894
	Manganese	12.6	7.0	180	-13	27	03/14/2024	13:00	LB129894
	Nickel	5.06	2.0	253	-38	42	03/14/2024	13:00	LB129894
	Potassium	-47.8			0	0	03/14/2024	13:00	LB129894
	Selenium	-7.87			-20	20	03/14/2024	13:00	LB129894
	Silver	5.22			-10	10	03/14/2024	13:00	LB129894
	Sodium	29.7			0	0	03/14/2024	13:00	LB129894
	Thallium	-2.52			-40	40	03/14/2024	13:00	LB129894
	Vanadium	3.22			-40	40	03/14/2024	13:00	LB129894
	Zinc	2.56			-40	40	03/14/2024	13:00	LB129894
ICSAB01	Aluminum	256000	247000	104	209000	285000	03/14/2024	13:04	LB129894
	Antimony	620	618	100	525	711	03/14/2024	13:04	LB129894
	Arsenic	109	104	105	88.4	120	03/14/2024	13:04	LB129894
	Barium	525	537	98	437	637	03/14/2024	13:04	LB129894
	Beryllium	499	495	101	420	570	03/14/2024	13:04	LB129894
	Cadmium	982	972	101	826	1120	03/14/2024	13:04	LB129894
	Calcium	248000	235000	106	199000	271000	03/14/2024	13:04	LB129894
	Chromium	517	542	95	460	624	03/14/2024	13:04	LB129894
	Cobalt	482	476	101	404	548	03/14/2024	13:04	LB129894
	Copper	480	511	94	434	588	03/14/2024	13:04	LB129894
	Iron	95200	99300	96	84400	114500	03/14/2024	13:04	LB129894
	Lead	43.1	49.0	88	37	61	03/14/2024	13:04	LB129894
	Magnesium	255000	248000	103	210000	286000	03/14/2024	13:04	LB129894
	Manganese	514	507	101	430	584	03/14/2024	13:04	LB129894
	Nickel	958	954	100	810	1100	03/14/2024	13:04	LB129894
	Potassium	-54.9			0	0	03/14/2024	13:04	LB129894
	Selenium	36.1	46.0	78	26	66	03/14/2024	13:04	LB129894
	Silver	213	201	106	170	232	03/14/2024	13:04	LB129894
	Sodium	45.2			0	0	03/14/2024	13:04	LB129894
	Thallium	88.4	108	82	68	148	03/14/2024	13:04	LB129894
	Vanadium	487	491	99	417	565	03/14/2024	13:04	LB129894
	Zinc	1020	952	107	809	1095	03/14/2024	13:04	LB129894
ICSA	Aluminum	242000	255000	95	216000	294000	03/14/2024	13:09	LB129894

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
ICS Source: EPA **Instrument ID:** P4

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
ICSA	Antimony	5.42			-50	50	03/14/2024	13:09	LB129894
	Arsenic	25.3			-20	20	03/14/2024	13:09	LB129894
	Barium	24.0	6.0	400	-94	106	03/14/2024	13:09	LB129894
	Beryllium	0.78			-6	6	03/14/2024	13:09	LB129894
	Cadmium	2.47	1.0	247	-5	7	03/14/2024	13:09	LB129894
	Calcium	256000	245000	104	208000	282000	03/14/2024	13:09	LB129894
	Chromium	52.1	52.0	100	42	62	03/14/2024	13:09	LB129894
	Cobalt	0.16			-30	30	03/14/2024	13:09	LB129894
	Copper	-6.70	2.0	335	-18	22	03/14/2024	13:09	LB129894
	Iron	94500	101000	94	85600	116500	03/14/2024	13:09	LB129894
	Lead	-1.36			-12	12	03/14/2024	13:09	LB129894
	Magnesium	246000	255000	96	216000	294000	03/14/2024	13:09	LB129894
	Manganese	12.8	7.0	183	-13	27	03/14/2024	13:09	LB129894
	Nickel	9.78	2.0	489	-38	42	03/14/2024	13:09	LB129894
	Potassium	-991			0	0	03/14/2024	13:09	LB129894
	Selenium	-9.26			-20	20	03/14/2024	13:09	LB129894
	Silver	12.4			-10	10	03/14/2024	13:09	LB129894
	Sodium	163			0	0	03/14/2024	13:09	LB129894
	Thallium	-4.00			-40	40	03/14/2024	13:09	LB129894
	Vanadium	-19.9			-40	40	03/14/2024	13:09	LB129894
	Zinc	8.35			-40	40	03/14/2024	13:09	LB129894
ICSAB	Aluminum	241000	247000	98	209000	285000	03/14/2024	13:13	LB129894
	Antimony	561	618	91	525	711	03/14/2024	13:13	LB129894
	Arsenic	146	104	140	88.4	120	03/14/2024	13:13	LB129894
	Barium	521	537	97	437	637	03/14/2024	13:13	LB129894
	Beryllium	490	495	99	420	570	03/14/2024	13:13	LB129894
	Cadmium	941	972	97	826	1120	03/14/2024	13:13	LB129894
	Calcium	254000	235000	108	199000	271000	03/14/2024	13:13	LB129894
	Chromium	511	542	94	460	624	03/14/2024	13:13	LB129894
	Cobalt	463	476	97	404	548	03/14/2024	13:13	LB129894
	Copper	486	511	95	434	588	03/14/2024	13:13	LB129894
	Iron	94100	99300	95	84400	114500	03/14/2024	13:13	LB129894
	Lead	60.9	49.0	124	37	61	03/14/2024	13:13	LB129894
	Magnesium	246000	248000	99	210000	286000	03/14/2024	13:13	LB129894
	Manganese	521	507	103	430	584	03/14/2024	13:13	LB129894
	Nickel	936	954	98	810	1100	03/14/2024	13:13	LB129894
	Potassium	-912			0	0	03/14/2024	13:13	LB129894
	Selenium	67.1	46.0	146	26	66	03/14/2024	13:13	LB129894
	Silver	211	201	105	170	232	03/14/2024	13:13	LB129894
	Sodium	146			0	0	03/14/2024	13:13	LB129894
	Thallium	74.2	108	69	68	148	03/14/2024	13:13	LB129894
	Vanadium	434	491	88	417	565	03/14/2024	13:13	LB129894
	Zinc	1010	952	106	809	1095	03/14/2024	13:13	LB129894
ICSA01	Aluminum	249000	255000	98	216000	294000	03/18/2024	18:07	LB129934
	Antimony	-1.82			-50	50	03/18/2024	18:07	LB129934

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
ICS Source: EPA **Instrument ID:** P4

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	Arsenic	7.19			-20	20	03/18/2024	18:07	LB129934
	Barium	5.89	6.0	98	-94	106	03/18/2024	18:07	LB129934
	Beryllium	1.68			-6	6	03/18/2024	18:07	LB129934
	Cadmium	1.10	1.0	110	-5	7	03/18/2024	18:07	LB129934
	Calcium	236000	245000	96	208000	282000	03/18/2024	18:07	LB129934
	Chromium	55.3	52.0	106	42	62	03/18/2024	18:07	LB129934
	Cobalt	4.15			-30	30	03/18/2024	18:07	LB129934
	Copper	5.07	2.0	254	-18	22	03/18/2024	18:07	LB129934
	Iron	90300	101000	89	85600	116500	03/18/2024	18:07	LB129934
	Lead	-0.30			-12	12	03/18/2024	18:07	LB129934
	Magnesium	260000	255000	102	216000	294000	03/18/2024	18:07	LB129934
	Manganese	11.3	7.0	161	-13	27	03/18/2024	18:07	LB129934
	Nickel	4.73	2.0	236	-38	42	03/18/2024	18:07	LB129934
	Potassium	-0.70			0	0	03/18/2024	18:07	LB129934
	Selenium	-11.5			-20	20	03/18/2024	18:07	LB129934
	Silver	0.98			-10	10	03/18/2024	18:07	LB129934
	Sodium	24.9			0	0	03/18/2024	18:07	LB129934
	Thallium	-5.65			-40	40	03/18/2024	18:07	LB129934
	Vanadium	1.32			-40	40	03/18/2024	18:07	LB129934
	Zinc	4.50			-40	40	03/18/2024	18:07	LB129934
ICSAB01	Aluminum	253000	247000	102	209000	285000	03/18/2024	18:21	LB129934
	Antimony	605	618	98	525	711	03/18/2024	18:21	LB129934
	Arsenic	111	104	107	88.4	120	03/18/2024	18:21	LB129934
	Barium	499	537	93	437	637	03/18/2024	18:21	LB129934
	Beryllium	501	495	101	420	570	03/18/2024	18:21	LB129934
	Cadmium	1010	972	104	826	1120	03/18/2024	18:21	LB129934
	Calcium	243000	235000	103	199000	271000	03/18/2024	18:21	LB129934
	Chromium	535	542	99	460	624	03/18/2024	18:21	LB129934
	Cobalt	496	476	104	404	548	03/18/2024	18:21	LB129934
	Copper	474	511	93	434	588	03/18/2024	18:21	LB129934
	Iron	93600	99300	94	84400	114500	03/18/2024	18:21	LB129934
	Lead	46.2	49.0	94	37	61	03/18/2024	18:21	LB129934
	Magnesium	266000	248000	107	210000	286000	03/18/2024	18:21	LB129934
	Manganese	500	507	99	430	584	03/18/2024	18:21	LB129934
	Nickel	978	954	102	810	1100	03/18/2024	18:21	LB129934
	Potassium	15.9			0	0	03/18/2024	18:21	LB129934
	Selenium	40.1	46.0	87	26	66	03/18/2024	18:21	LB129934
	Silver	209	201	104	170	232	03/18/2024	18:21	LB129934
	Sodium	45.7			0	0	03/18/2024	18:21	LB129934
	Thallium	89.6	108	83	68	148	03/18/2024	18:21	LB129934
	Vanadium	478	491	97	417	565	03/18/2024	18:21	LB129934
	Zinc	1030	952	108	809	1095	03/18/2024	18:21	LB129934
ICSA	Aluminum	233000	255000	91	216000	294000	03/18/2024	18:25	LB129934
	Antimony	20.6			-50	50	03/18/2024	18:25	LB129934
	Arsenic	12.7			-20	20	03/18/2024	18:25	LB129934

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
ICS Source: EPA **Instrument ID:** P4

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
ICSA	Barium	13.7	6.0	228	-94	106	03/18/2024	18:25	LB129934
	Beryllium	2.63			-6	6	03/18/2024	18:25	LB129934
	Cadmium	0.38	1.0	38	-5	7	03/18/2024	18:25	LB129934
	Calcium	239000	245000	98	208000	282000	03/18/2024	18:25	LB129934
	Chromium	52.7	52.0	101	42	62	03/18/2024	18:25	LB129934
	Cobalt	5.14			-30	30	03/18/2024	18:25	LB129934
	Copper	13.5	2.0	675	-18	22	03/18/2024	18:25	LB129934
	Iron	91200	101000	90	85600	116500	03/18/2024	18:25	LB129934
	Lead	-1.40			-12	12	03/18/2024	18:25	LB129934
	Magnesium	242000	255000	95	216000	294000	03/18/2024	18:25	LB129934
	Manganese	10.1	7.0	144	-13	27	03/18/2024	18:25	LB129934
	Nickel	9.36	2.0	468	-38	42	03/18/2024	18:25	LB129934
	Potassium	-6.54			0	0	03/18/2024	18:25	LB129934
	Selenium	-18.2			-20	20	03/18/2024	18:25	LB129934
	Silver	-3.76			-10	10	03/18/2024	18:25	LB129934
	Sodium	184			0	0	03/18/2024	18:25	LB129934
	Thallium	-24.2			-40	40	03/18/2024	18:25	LB129934
	Vanadium	-19.5			-40	40	03/18/2024	18:25	LB129934
	Zinc	5.00			-40	40	03/18/2024	18:25	LB129934
ICSAB	Aluminum	234000	247000	95	209000	285000	03/18/2024	18:29	LB129934
	Antimony	553	618	90	525	711	03/18/2024	18:29	LB129934
	Arsenic	108	104	104	88.4	120	03/18/2024	18:29	LB129934
	Barium	486	537	90	437	637	03/18/2024	18:29	LB129934
	Beryllium	495	495	100	420	570	03/18/2024	18:29	LB129934
	Cadmium	950	972	98	826	1120	03/18/2024	18:29	LB129934
	Calcium	241000	235000	103	199000	271000	03/18/2024	18:29	LB129934
	Chromium	526	542	97	460	624	03/18/2024	18:29	LB129934
	Cobalt	463	476	97	404	548	03/18/2024	18:29	LB129934
	Copper	492	511	96	434	588	03/18/2024	18:29	LB129934
	Iron	88400	99300	89	84400	114500	03/18/2024	18:29	LB129934
	Lead	79.0	49.0	161	37	61	03/18/2024	18:29	LB129934
	Magnesium	243000	248000	98	210000	286000	03/18/2024	18:29	LB129934
	Manganese	505	507	100	430	584	03/18/2024	18:29	LB129934
	Nickel	934	954	98	810	1100	03/18/2024	18:29	LB129934
	Potassium	53.2			0	0	03/18/2024	18:29	LB129934
	Selenium	14.8	46.0	32	26	66	03/18/2024	18:29	LB129934
	Silver	185	201	92	170	232	03/18/2024	18:29	LB129934
	Sodium	169			0	0	03/18/2024	18:29	LB129934
	Thallium	82.8	108	77	68	148	03/18/2024	18:29	LB129934
	Vanadium	467	491	95	417	565	03/18/2024	18:29	LB129934
	Zinc	988	952	104	809	1095	03/18/2024	18:29	LB129934
ICSA01	Aluminum	254000	255000	100	216000	294000	03/21/2024	12:16	LB129987
	Antimony	-0.47			-50	50	03/21/2024	12:16	LB129987
	Arsenic	6.37			-20	20	03/21/2024	12:16	LB129987
	Barium	5.12	6.0	85	-94	106	03/21/2024	12:16	LB129987

Metals

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
ICS Source: EPA **Instrument ID:** P4

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	Beryllium	1.42			-6	6	03/21/2024	12:16	LB129987
	Cadmium	-0.88	1.0	88	-5	7	03/21/2024	12:16	LB129987
	Calcium	241000	245000	98	208000	282000	03/21/2024	12:16	LB129987
	Chromium	46.9	52.0	90	42	62	03/21/2024	12:16	LB129987
	Cobalt	3.14			-30	30	03/21/2024	12:16	LB129987
	Copper	-0.37	2.0	18	-18	22	03/21/2024	12:16	LB129987
	Iron	102000	101000	101	85600	116500	03/21/2024	12:16	LB129987
	Lead	-5.24			-12	12	03/21/2024	12:16	LB129987
	Magnesium	254000	255000	100	216000	294000	03/21/2024	12:16	LB129987
	Manganese	12.4	7.0	177	-13	27	03/21/2024	12:16	LB129987
	Nickel	5.60	2.0	280	-38	42	03/21/2024	12:16	LB129987
	Potassium	4.35			0	0	03/21/2024	12:16	LB129987
	Selenium	-13.5			-20	20	03/21/2024	12:16	LB129987
	Silver	-8.85			-10	10	03/21/2024	12:16	LB129987
	Sodium	59.4			0	0	03/21/2024	12:16	LB129987
	Thallium	0.034			-40	40	03/21/2024	12:16	LB129987
	Vanadium	3.68			-40	40	03/21/2024	12:16	LB129987
	Zinc	3.99			-40	40	03/21/2024	12:16	LB129987
ICSAB01	Aluminum	249000	247000	101	209000	285000	03/21/2024	12:21	LB129987
	Antimony	615	618	100	525	711	03/21/2024	12:21	LB129987
	Arsenic	110	104	106	88.4	120	03/21/2024	12:21	LB129987
	Barium	493	537	92	437	637	03/21/2024	12:21	LB129987
	Beryllium	486	495	98	420	570	03/21/2024	12:21	LB129987
	Cadmium	1010	972	104	826	1120	03/21/2024	12:21	LB129987
	Calcium	236000	235000	100	199000	271000	03/21/2024	12:21	LB129987
	Chromium	551	542	102	460	624	03/21/2024	12:21	LB129987
	Cobalt	493	476	104	404	548	03/21/2024	12:21	LB129987
	Copper	497	511	97	434	588	03/21/2024	12:21	LB129987
	Iron	98200	99300	99	84400	114500	03/21/2024	12:21	LB129987
	Lead	42.1	49.0	86	37	61	03/21/2024	12:21	LB129987
	Magnesium	250000	248000	101	210000	286000	03/21/2024	12:21	LB129987
	Manganese	489	507	96	430	584	03/21/2024	12:21	LB129987
	Nickel	985	954	103	810	1100	03/21/2024	12:21	LB129987
	Potassium	4.01			0	0	03/21/2024	12:21	LB129987
	Selenium	37.9	46.0	82	26	66	03/21/2024	12:21	LB129987
	Silver	210	201	104	170	232	03/21/2024	12:21	LB129987
	Sodium	54.0			0	0	03/21/2024	12:21	LB129987
	Thallium	103	108	95	68	148	03/21/2024	12:21	LB129987
	Vanadium	479	491	98	417	565	03/21/2024	12:21	LB129987
	Zinc	1060	952	111	809	1095	03/21/2024	12:21	LB129987
ICSA	Aluminum	255000	255000	100	216000	294000	03/21/2024	12:25	LB129987
	Antimony	-14.6			-50	50	03/21/2024	12:25	LB129987
	Arsenic	21.5			-20	20	03/21/2024	12:25	LB129987
	Barium	-7.38	6.0	123	-94	106	03/21/2024	12:25	LB129987
	Beryllium	2.68			-6	6	03/21/2024	12:25	LB129987

Metals

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
ICS Source: EPA **Instrument ID:** P4

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
ICSA	Cadmium	-3.08	1.0	308	-5	7	03/21/2024	12:25	LB129987
	Calcium	252000	245000	103	208000	282000	03/21/2024	12:25	LB129987
	Chromium	43.8	52.0	84	42	62	03/21/2024	12:25	LB129987
	Cobalt	3.56			-30	30	03/21/2024	12:25	LB129987
	Copper	3.80	2.0	190	-18	22	03/21/2024	12:25	LB129987
	Iron	98000	101000	97	85600	116500	03/21/2024	12:25	LB129987
	Lead	1.08			-12	12	03/21/2024	12:25	LB129987
	Magnesium	255000	255000	100	216000	294000	03/21/2024	12:25	LB129987
	Manganese	6.85	7.0	98	-13	27	03/21/2024	12:25	LB129987
	Nickel	5.17	2.0	258	-38	42	03/21/2024	12:25	LB129987
	Potassium	-157			0	0	03/21/2024	12:25	LB129987
	Selenium	-6.28			-20	20	03/21/2024	12:25	LB129987
	Silver	1.68			-10	10	03/21/2024	12:25	LB129987
	Sodium	420			0	0	03/21/2024	12:25	LB129987
	Thallium	6.75			-40	40	03/21/2024	12:25	LB129987
	Vanadium	6.21			-40	40	03/21/2024	12:25	LB129987
	Zinc	0.45			-40	40	03/21/2024	12:25	LB129987
ICSAB	Aluminum	256000	247000	104	209000	285000	03/21/2024	12:29	LB129987
	Antimony	560	618	91	525	711	03/21/2024	12:29	LB129987
	Arsenic	116	104	112	88.4	120	03/21/2024	12:29	LB129987
	Barium	507	537	94	437	637	03/21/2024	12:29	LB129987
	Beryllium	514	495	104	420	570	03/21/2024	12:29	LB129987
	Cadmium	965	972	99	826	1120	03/21/2024	12:29	LB129987
	Calcium	252000	235000	107	199000	271000	03/21/2024	12:29	LB129987
	Chromium	544	542	100	460	624	03/21/2024	12:29	LB129987
	Cobalt	466	476	98	404	548	03/21/2024	12:29	LB129987
	Copper	501	511	98	434	588	03/21/2024	12:29	LB129987
	Iron	93600	99300	94	84400	114500	03/21/2024	12:29	LB129987
	Lead	22.4	49.0	46	37	61	03/21/2024	12:29	LB129987
	Magnesium	256000	248000	103	210000	286000	03/21/2024	12:29	LB129987
	Manganese	518	507	102	430	584	03/21/2024	12:29	LB129987
	Nickel	949	954	100	810	1100	03/21/2024	12:29	LB129987
	Potassium	256			0	0	03/21/2024	12:29	LB129987
	Selenium	42.1	46.0	92	26	66	03/21/2024	12:29	LB129987
	Silver	209	201	104	170	232	03/21/2024	12:29	LB129987
	Sodium	411			0	0	03/21/2024	12:29	LB129987
	Thallium	127	108	118	68	148	03/21/2024	12:29	LB129987
	Vanadium	521	491	106	417	565	03/21/2024	12:29	LB129987
	Zinc	1030	952	108	809	1095	03/21/2024	12:29	LB129987
ICSA01	Aluminum	249000	255000	98	216000	294000	03/26/2024	12:56	LB130043
	Antimony	-0.57			-50	50	03/26/2024	12:56	LB130043
	Arsenic	3.03			-20	20	03/26/2024	12:56	LB130043
	Barium	3.45	6.0	58	-94	106	03/26/2024	12:56	LB130043
	Beryllium	1.05			-6	6	03/26/2024	12:56	LB130043
	Cadmium	5.31	1.0	531	-5	7	03/26/2024	12:56	LB130043

Metals

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc.

SDG No.: P1747

Contract: LIRO01

Lab Code: CHEM

Case No.: P1747

SAS No.: P1747

ICS Source: EPA

Instrument ID: P4

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	Calcium	241000	245000	98	208000	282000	03/26/2024	12:56	LB130043
	Chromium	43.9	52.0	84	42	62	03/26/2024	12:56	LB130043
	Cobalt	2.89			-30	30	03/26/2024	12:56	LB130043
	Copper	11.4	2.0	570	-18	22	03/26/2024	12:56	LB130043
	Iron	98000	101000	97	85600	116500	03/26/2024	12:56	LB130043
	Lead	2.53			-12	12	03/26/2024	12:56	LB130043
	Magnesium	217000	255000	85	216000	294000	03/26/2024	12:56	LB130043
	Manganese	14.4	7.0	206	-13	27	03/26/2024	12:56	LB130043
	Nickel	5.38	2.0	269	-38	42	03/26/2024	12:56	LB130043
	Potassium	22.4			0	0	03/26/2024	12:56	LB130043
	Selenium	-6.97			-20	20	03/26/2024	12:56	LB130043
	Silver	8.25			-10	10	03/26/2024	12:56	LB130043
	Sodium	27.0			0	0	03/26/2024	12:56	LB130043
	Thallium	-0.20			-40	40	03/26/2024	12:56	LB130043
	Vanadium	1.85			-40	40	03/26/2024	12:56	LB130043
	Zinc	6.29			-40	40	03/26/2024	12:56	LB130043
ICSAB01	Aluminum	253000	247000	102	209000	285000	03/26/2024	13:03	LB130043
	Antimony	616	618	100	525	711	03/26/2024	13:03	LB130043
	Arsenic	106	104	102	88.4	120	03/26/2024	13:03	LB130043
	Barium	487	537	91	437	637	03/26/2024	13:03	LB130043
	Beryllium	497	495	100	420	570	03/26/2024	13:03	LB130043
	Cadmium	949	972	98	826	1120	03/26/2024	13:03	LB130043
	Calcium	243000	235000	103	199000	271000	03/26/2024	13:03	LB130043
	Chromium	494	542	91	460	624	03/26/2024	13:03	LB130043
	Cobalt	464	476	98	404	548	03/26/2024	13:03	LB130043
	Copper	475	511	93	434	588	03/26/2024	13:03	LB130043
	Iron	93600	99300	94	84400	114500	03/26/2024	13:03	LB130043
	Lead	49.0	49.0	100	37	61	03/26/2024	13:03	LB130043
	Magnesium	217000	248000	88	210000	286000	03/26/2024	13:03	LB130043
	Manganese	502	507	99	430	584	03/26/2024	13:03	LB130043
	Nickel	936	954	98	810	1100	03/26/2024	13:03	LB130043
	Potassium	27.6			0	0	03/26/2024	13:03	LB130043
	Selenium	40.8	46.0	89	26	66	03/26/2024	13:03	LB130043
	Silver	205	201	102	170	232	03/26/2024	13:03	LB130043
	Sodium	34.0			0	0	03/26/2024	13:03	LB130043
	Thallium	91.7	108	85	68	148	03/26/2024	13:03	LB130043
	Vanadium	471	491	96	417	565	03/26/2024	13:03	LB130043
	Zinc	1000	952	105	809	1095	03/26/2024	13:03	LB130043
ICSA	Aluminum	235000	255000	92	216000	294000	03/26/2024	13:07	LB130043
	Antimony	-9.50			-50	50	03/26/2024	13:07	LB130043
	Arsenic	-30.4			-20	20	03/26/2024	13:07	LB130043
	Barium	-42.7	6.0	712	-94	106	03/26/2024	13:07	LB130043
	Beryllium	1.68			-6	6	03/26/2024	13:07	LB130043
	Cadmium	4.41	1.0	441	-5	7	03/26/2024	13:07	LB130043
	Calcium	241000	245000	98	208000	282000	03/26/2024	13:07	LB130043



Metals

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INTERFERENCE CHECK SAMPLE

Client: LiRo Engineers, Inc. SDG No.: P1747
Contract: LIRO01 Lab Code: CHEM Case No.: P1747 SAS No.: P1747
ICS Source: EPA Instrument ID: P4

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
ICSA	Chromium	37.2	52.0	72	42	62	03/26/2024	13:07	LB130043
	Cobalt	1.50			-30	30	03/26/2024	13:07	LB130043
	Copper	9.53	2.0	476	-18	22	03/26/2024	13:07	LB130043
	Iron	91500	101000	91	85600	116500	03/26/2024	13:07	LB130043
	Lead	-10.7			-12	12	03/26/2024	13:07	LB130043
	Magnesium	201000	255000	79	216000	294000	03/26/2024	13:07	LB130043
	Manganese	16.5	7.0	236	-13	27	03/26/2024	13:07	LB130043
	Nickel	10.3	2.0	514	-38	42	03/26/2024	13:07	LB130043
	Potassium	-39.6			0	0	03/26/2024	13:07	LB130043
	Selenium	-17.1			-20	20	03/26/2024	13:07	LB130043
	Silver	26.6			-10	10	03/26/2024	13:07	LB130043
	Sodium	207			0	0	03/26/2024	13:07	LB130043
	Thallium	25.9			-40	40	03/26/2024	13:07	LB130043
	Vanadium	2.61			-40	40	03/26/2024	13:07	LB130043
	Zinc	19.1			-40	40	03/26/2024	13:07	LB130043
ICSAB	Aluminum	248000	247000	100	209000	285000	03/26/2024	13:12	LB130043
	Antimony	616	618	100	525	711	03/26/2024	13:12	LB130043
	Arsenic	65.8	104	63	88.4	120	03/26/2024	13:12	LB130043
	Barium	464	537	86	437	637	03/26/2024	13:12	LB130043
	Beryllium	494	495	100	420	570	03/26/2024	13:12	LB130043
	Cadmium	961	972	99	826	1120	03/26/2024	13:12	LB130043
	Calcium	255000	235000	108	199000	271000	03/26/2024	13:12	LB130043
	Chromium	515	542	95	460	624	03/26/2024	13:12	LB130043
	Cobalt	474	476	100	404	548	03/26/2024	13:12	LB130043
	Copper	524	511	102	434	588	03/26/2024	13:12	LB130043
	Iron	95900	99300	97	84400	114500	03/26/2024	13:12	LB130043
	Lead	43.3	49.0	88	37	61	03/26/2024	13:12	LB130043
	Magnesium	212000	248000	86	210000	286000	03/26/2024	13:12	LB130043
	Manganese	536	507	106	430	584	03/26/2024	13:12	LB130043
	Nickel	967	954	101	810	1100	03/26/2024	13:12	LB130043
	Potassium	98.6			0	0	03/26/2024	13:12	LB130043
	Selenium	49.4	46.0	107	26	66	03/26/2024	13:12	LB130043
	Silver	231	201	115	170	232	03/26/2024	13:12	LB130043
	Sodium	53.3			0	0	03/26/2024	13:12	LB130043
	Thallium	112	108	104	68	148	03/26/2024	13:12	LB130043
	Vanadium	485	491	99	417	565	03/26/2024	13:12	LB130043
	Zinc	1000	952	105	809	1095	03/26/2024	13:12	LB130043