

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
Matrix: Water **Sample ID:** P1714-04 **Client ID:** WATER-TREATMENT-DISCHARGEDUP
Percent Solids for Sample: NA **Duplicate ID** P1714-04DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	9940		9940		0		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	50.0	U	50.0	U			P
Beryllium	ug/L	20	3.00	U	3.00	U			P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	5880		5830		1		P
Chromium	ug/L	20	80.1		79.6		1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	9.17	J	9.19	J	0		P
Iron	ug/L	20	144		139		4		P
Lead	ug/L	20	6.00	U	6.00	U			P
Magnesium	ug/L	20	1130		1120		1		P
Manganese	ug/L	20	5.93	J	5.57	J	6		P
Nickel	ug/L	20	30.0		30.0		0		P
Potassium	ug/L	20	80600	D	79600	D	1		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	830000	D	818000	D	1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	74.8		72.3		3		P



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Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
Matrix: Water **Sample ID:** P1714-04MS **Client ID:** WATER-TREATMENT-DISCHARGEMSD
Percent Solids for Sample: NA **Duplicate ID** P1714-04MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	10900		10900		0		P
Antimony	ug/L	20	426		431		1		P
Arsenic	ug/L	20	443		451		2		P
Barium	ug/L	20	103		103		0		P
Beryllium	ug/L	20	92.6		91.3		1		P
Cadmium	ug/L	20	107		107		0		P
Calcium	ug/L	20	6260		6250		0		P
Chromium	ug/L	20	280		288		3		P
Cobalt	ug/L	20	102		102		0		P
Copper	ug/L	20	150		150		0		P
Iron	ug/L	20	1840		1900		3		P
Lead	ug/L	20	511		513		0		P
Magnesium	ug/L	20	2030		2010		1		P
Manganese	ug/L	20	106		104		2		P
Nickel	ug/L	20	287		289		1		P
Potassium	ug/L	20	81700	D	83300	D	2		P
Selenium	ug/L	20	1160		1170		1		P
Silver	ug/L	20	44.1		45.3		3		P
Sodium	ug/L	20	802000	D	820000	D	2		P
Thallium	ug/L	20	1020		1030		1		P
Vanadium	ug/L	20	151		152		1		P
Zinc	ug/L	20	184		190		3		P



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DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
Matrix: Water **Sample ID:** P1747-03 **Client ID:** MW-01DUP
Percent Solids for Sample: NA **Duplicate ID** P1747-03DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	201		207		3		P
Antimony	ug/L	20	25.0	U	25.0	U			P
Arsenic	ug/L	20	10.0	U	10.0	U			P
Barium	ug/L	20	203		204		0		P
Beryllium	ug/L	20	0.22	J	0.24	J	8		P
Cadmium	ug/L	20	3.00	U	3.00	U			P
Calcium	ug/L	20	91400		92200		1		P
Chromium	ug/L	20	9.13		9.25		1		P
Cobalt	ug/L	20	15.0	U	15.0	U			P
Copper	ug/L	20	2.30	J	2.15	J	7		P
Iron	ug/L	20	13500		13400		1		P
Lead	ug/L	20	6.00	U	1.71	J	200.0		P
Magnesium	ug/L	20	24400		24700		1		P
Manganese	ug/L	20	730		734		1		P
Nickel	ug/L	20	17.6	J	17.5	J	1		P
Potassium	ug/L	20	6160		6170		0		P
Selenium	ug/L	20	10.0	U	10.0	U			P
Silver	ug/L	20	5.00	U	5.00	U			P
Sodium	ug/L	20	56700		56400		1		P
Thallium	ug/L	20	20.0	U	20.0	U			P
Vanadium	ug/L	20	20.0	U	20.0	U			P
Zinc	ug/L	20	25.7		25.6		0		P



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Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
Matrix: Water **Sample ID:** P1747-03MS **Client ID:** MW-01MSD
Percent Solids for Sample: NA **Duplicate ID** P1747-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	1250		1260		1		P
Antimony	ug/L	20	429		428		0		P
Arsenic	ug/L	20	432		430		0		P
Barium	ug/L	20	303		302		0		P
Beryllium	ug/L	20	101		103		2		P
Cadmium	ug/L	20	102		102		0		P
Calcium	ug/L	20	91700		91700		0		P
Chromium	ug/L	20	219		218		0		P
Cobalt	ug/L	20	100		99.7		0		P
Copper	ug/L	20	154		153		1		P
Iron	ug/L	20	15100		14700		3		P
Lead	ug/L	20	520		517		1		P
Magnesium	ug/L	20	25300		25400		0		P
Manganese	ug/L	20	824		825		0		P
Nickel	ug/L	20	269		267		1		P
Potassium	ug/L	20	11600		11400		2		P
Selenium	ug/L	20	1040		1040		0		P
Silver	ug/L	20	40.9		40.5		1		P
Sodium	ug/L	20	58000		56800		2		P
Thallium	ug/L	20	1070		1070		0		P
Vanadium	ug/L	20	156		156		0		P
Zinc	ug/L	20	134		135		1		P



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DUPLICATE SAMPLE SUMMARY

Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
Matrix: Water **Sample ID:** P1772-08 **Client ID:** 1346DUP
Percent Solids for Sample: NA **Duplicate ID** P1772-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.32		0.36		14		CV



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Client:	<u>LiRo Engineers, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>P1747</u>		
Contract:	<u>LIRO01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P1747</u>	SAS No.:	<u>P1747</u>
Matrix:	<u>Water</u>	Sample ID:	<u>P1772-08MS</u>	Client ID:	<u>1346MSD</u>		
Percent Solids for Sample:	<u>NA</u>	Duplicate ID	<u>P1772-08MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	3.86		3.72		4		CV



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Client:	<u>LiRo Engineers, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>P1747</u>		
Contract:	<u>LIRO01</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P1747</u>	SAS No.:	<u>P1747</u>
Matrix:	<u>Water</u>	Sample ID:	<u>P1788-02</u>	Client ID:	<u>PEZOMETER-206DUP</u>		
Percent Solids for Sample:	<u>NA</u>	Duplicate ID	<u>P1788-02DUP</u>	Percent Solids for Spike Sample:	<u>NA</u>		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	2.20		2.17		1		CV



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Client: LiRo Engineers, Inc. **Level:** LOW **SDG No.:** P1747
Contract: LIRO01 **Lab Code:** CHEM **Case No.:** P1747 **SAS No.:** P1747
Matrix: Water **Sample ID:** P1788-02MS **Client ID:** PEZOMETER-206MSD
Percent Solids for Sample: NA **Duplicate ID** P1788-02MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	6.51		6.03		8		CV