

metals
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MATRIX SPIKE SUMMARY

client: METEM A GE POWER Business **level:** low **sdg no.:** Q1944
contract: METE01 **lab code:** CHEM **case no.:** Q1944 **sas no.:** Q1944
matrix: Water **sample id:** Q1930-01 **client id:** WATER-TREATMENT-DISCHARGEMS
Percent Solids for Sample: NA **Spiked ID:** Q1930-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	14800		14300		1000	52		P
Antimony	ug/L	75 - 125	440		25.0	U	400	110		P
Arsenic	ug/L	75 - 125	428		10.0	U	400	107		P
Barium	ug/L	75 - 125	92.9		50.0	U	100	93		P
Beryllium	ug/L	75 - 125	100		3.00	U	100	100		P
Cadmium	ug/L	75 - 125	107		3.00	U	100	107		P
Calcium	ug/L	75 - 125	8500		8400		500	21		P
Chromium	ug/L	75 - 125	345		156		200	94		P
Cobalt	ug/L	75 - 125	102		15.0	U	100	102		P
Copper	ug/L	75 - 125	151		17.4		150	89		P
Iron	ug/L	75 - 125	2190		668		1500	101		P
Lead	ug/L	75 - 125	492		6.00	U	500	98		P
Magnesium	ug/L	75 - 125	2000		1150		1000	85		P
Manganese	ug/L	75 - 125	99.1		4.86	J	100	94		P
Nickel	ug/L	75 - 125	267		12.9	J	250	101		P
Potassium	ug/L	75 - 125	128000		129000		5000	-38		P
Selenium	ug/L	75 - 125	1120		10.0	U	1000	112		P
Silver	ug/L	75 - 125	42.1		5.00	U	37.5	112		P
Sodium	ug/L	75 - 125	961000		1020000		1500	-4061		P
Thallium	ug/L	75 - 125	907		20.0	U	1000	91		P
Vanadium	ug/L	75 - 125	146		20.0	U	150	97		P
Zinc	ug/L	75 - 125	157		49.2		100	108		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: METEM A GE POWER Business **level:** low **sdg no.:** Q1944
contract: METE01 **lab code:** CHEM **case no.:** Q1944 **sas no.:** Q1944
matrix: Water **sample id:** Q1930-01 **client id:** WATER-TREATMENT-DISCHARGEMSD
Percent Solids for Sample: NA **Spiked ID:** Q1930-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	14000		14300		1000	-23		P
Antimony	ug/L	75 - 125	427		25.0	U	400	107		P
Arsenic	ug/L	75 - 125	436		10.0	U	400	109		P
Barium	ug/L	75 - 125	95.7		50.0	U	100	96		P
Beryllium	ug/L	75 - 125	93.7		3.00	U	100	94		P
Cadmium	ug/L	75 - 125	108		3.00	U	100	108		P
Calcium	ug/L	75 - 125	8260		8400		500	-29		P
Chromium	ug/L	75 - 125	341		156		200	93		P
Cobalt	ug/L	75 - 125	103		15.0	U	100	103		P
Copper	ug/L	75 - 125	152		17.4		150	90		P
Iron	ug/L	75 - 125	2280		668		1500	108		P
Lead	ug/L	75 - 125	495		6.00	U	500	99		P
Magnesium	ug/L	75 - 125	1940		1150		1000	79		P
Manganese	ug/L	75 - 125	106		4.86	J	100	101		P
Nickel	ug/L	75 - 125	269		12.9	J	250	102		P
Potassium	ug/L	75 - 125	128000		129000		5000	-28		P
Selenium	ug/L	75 - 125	1130		10.0	U	1000	113		P
Silver	ug/L	75 - 125	38.4		5.00	U	37.5	102		P
Sodium	ug/L	75 - 125	959000		1020000		1500	-4195		P
Thallium	ug/L	75 - 125	922		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	148		20.0	U	150	99		P
Zinc	ug/L	75 - 125	151		49.2		100	102		P

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MATRIX SPIKE SUMMARY

client: METEM A GE POWER Business **level:** low **sdg no.:** Q1944
contract: METE01 **lab code:** CHEM **case no.:** Q1944 **sas no.:** Q1944
matrix: Solid **sample id:** Q1933-01 **client id:** OK-01-050125MS
Percent Solids for Sample: 91.8 **Spiked ID:** Q1933-01MS **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5560		4780		100	779		P
Antimony	mg/Kg	75 - 125	15.0		2.31	U	41.1	36	N	P
Arsenic	mg/Kg	75 - 125	35.1		1.44		41.1	82		P
Barium	mg/Kg	75 - 125	36.3		24.8		10.3	111		P
Beryllium	mg/Kg	75 - 125	8.88		0.31		10.3	83		P
Cadmium	mg/Kg	75 - 125	9.71		0.28	U	10.3	94		P
Calcium	mg/Kg	75 - 125	2700		2610		51.4	170		P
Chromium	mg/Kg	75 - 125	33.8		15.0		20.6	91		P
Cobalt	mg/Kg	75 - 125	17.8		7.43		10.3	101		P
Copper	mg/Kg	75 - 125	54.3		39.8		15.4	94		P
Iron	mg/Kg	75 - 125	12800		12000		150	487		P
Lead	mg/Kg	75 - 125	52.7		5.19		51.4	93		P
Magnesium	mg/Kg	75 - 125	3450		3090		100	358		P
Manganese	mg/Kg	75 - 125	149		159		10.3	-93		P
Nickel	mg/Kg	75 - 125	41.3		13.5		25.7	108		P
Potassium	mg/Kg	75 - 125	1820		1310		510	99		P
Selenium	mg/Kg	75 - 125	79.7		0.92	U	100	80		P
Silver	mg/Kg	75 - 125	3.33		0.46	U	3.9	85		P
Sodium	mg/Kg	75 - 125	244		113		150	88		P
Thallium	mg/Kg	75 - 125	95.1		1.85	U	100	95		P
Vanadium	mg/Kg	75 - 125	33.2		18.4		15.4	96		P
Zinc	mg/Kg	75 - 125	29.0		19.8		10.3	89		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: METEM A GE POWER Business **level:** low **sdg no.:** Q1944
contract: METE01 **lab code:** CHEM **case no.:** Q1944 **sas no.:** Q1944
matrix: Solid **sample id:** Q1933-01 **client id:** OK-01-050125MSD
Percent Solids for Sample: 91.8 **Spiked ID:** Q1933-01MSD **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4800		4780		91.9	18		P
Antimony	mg/Kg	75 - 125	12.1		2.31	U	36.8	33	N	P
Arsenic	mg/Kg	75 - 125	31.4		1.44		36.8	81		P
Barium	mg/Kg	75 - 125	32.3		24.8		9.2	82		P
Beryllium	mg/Kg	75 - 125	7.47		0.31		9.2	78		P
Cadmium	mg/Kg	75 - 125	8.56		0.28	U	9.2	93		P
Calcium	mg/Kg	75 - 125	2580		2610		46.0	-65		P
Chromium	mg/Kg	75 - 125	29.3		15.0		18.4	78		P
Cobalt	mg/Kg	75 - 125	15.2		7.43		9.2	84		P
Copper	mg/Kg	75 - 125	36.5		39.8		13.8	-24	N	P
Iron	mg/Kg	75 - 125	11700		12000		140	-240		P
Lead	mg/Kg	75 - 125	47.6		5.19		46.0	92		P
Magnesium	mg/Kg	75 - 125	3040		3090		91.9	-49		P
Manganese	mg/Kg	75 - 125	140		159		9.2	-205		P
Nickel	mg/Kg	75 - 125	32.6		13.5		23.0	83		P
Potassium	mg/Kg	75 - 125	1760		1310		460	98		P
Selenium	mg/Kg	75 - 125	70.9		0.92	U	91.9	77		P
Silver	mg/Kg	75 - 125	3.05		0.46	U	3.4	90		P
Sodium	mg/Kg	75 - 125	254		113		140	101		P
Thallium	mg/Kg	75 - 125	84.3		1.85	U	91.9	92		P
Vanadium	mg/Kg	75 - 125	28.9		18.4		13.8	76		P
Zinc	mg/Kg	75 - 125	27.0		19.8		9.2	77		P

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MATRIX SPIKE SUMMARY

client: <u>METEM A GE POWER Business</u>	level: <u>low</u>	sdg no.: <u>Q1944</u>
contract: <u>METE01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1944</u> sas no.: <u>Q1944</u>
matrix: <u>Water</u>	sample id: <u>Q1945-01</u>	client id: <u>GB1WMS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1945-01MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	6.44		4.53		4.0	48	N	CV

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client: <u>METEM A GE POWER Business</u>	level: <u>low</u>	sdg no.: <u>Q1944</u>
contract: <u>METE01</u>	lab code: <u>CHEM</u>	case no.: <u>Q1944</u> sas no.: <u>Q1944</u>
matrix: <u>Water</u>	sample id: <u>Q1945-01</u>	client id: <u>GB1WMSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1945-01MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	6.37		4.53		4.0	46	N	CV

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MATRIX SPIKE SUMMARY

client: METEM A GE POWER Business **level:** low **sdg no.:** Q1944
contract: METE01 **lab code:** CHEM **case no.:** Q1944 **sas no.:** Q1944
matrix: Solid **sample id:** Q1956-02 **client id:** SB2-4-5MS
Percent Solids for Sample: 93.5 **Spiked ID:** Q1956-03 **Percent Solids for Spike Sample:** 93.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.0080	J	0.27	104		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: METEM A GE POWER Business **level:** low **sdg no.:** Q1944
contract: METE01 **lab code:** CHEM **case no.:** Q1944 **sas no.:** Q1944
matrix: Solid **sample id:** Q1956-02 **client id:** SB2-4-5MSD
Percent Solids for Sample: 93.5 **Spiked ID:** Q1956-04 **Percent Solids for Spike Sample:** 93.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.0080	J	0.25	114		CV