

metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1382
contract: NOBI03 **lab code:** CHEM **case no.:** Q1382 **sas no.:** Q1382
matrix: Solid **sample id:** Q1384-01 **client id:** OR-03-021823025MS
Percent Solids for Sample: 88.6 **Spiked ID:** Q1384-01MS **Percent Solids for Spike Sample:** 88.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	5210		4950		100	261		P
Antimony	mg/Kg	79 - 114	5.76		2.50	U	40.7	14	N	P
Arsenic	mg/Kg	82 - 111	35.7		0.91	J	40.7	86		P
Barium	mg/Kg	83 - 113	37.5		22.3		10.2	150	N	P
Beryllium	mg/Kg	83 - 113	7.98		0.31		10.2	75	N	P
Cadmium	mg/Kg	82 - 113	9.51		0.30	U	10.2	93		P
Calcium	mg/Kg	81 - 116	3000		3290		50.8	-560		P
Chromium	mg/Kg	85 - 113	25.9		7.64		20.3	90		P
Cobalt	mg/Kg	85 - 112	16.4		5.00		10.2	111		P
Copper	mg/Kg	81 - 117	29.4		15.2		15.3	93		P
Iron	mg/Kg	81 - 118	8430		8480		150	-34		P
Lead	mg/Kg	81 - 112	57.7		16.2		50.8	82		P
Magnesium	mg/Kg	78 - 115	1950		2210		100	-267		P
Manganese	mg/Kg	84 - 114	178		179		10.2	-10		P
Nickel	mg/Kg	83 - 113	33.8		9.50		25.4	96		P
Potassium	mg/Kg	81 - 116	922		515		510	80	N	P
Selenium	mg/Kg	78 - 111	74.7		1.00	U	100	75	N	P
Silver	mg/Kg	82 - 112	2.86		0.50	U	3.8	75	N	P
Sodium	mg/Kg	83 - 118	723		592		150	87		P
Thallium	mg/Kg	83 - 111	92.5		2.00	U	100	92		P
Vanadium	mg/Kg	82 - 114	24.0		14.8		15.3	60	N	P
Zinc	mg/Kg	82 - 113	36.4		21.0		10.2	151	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1382
contract: NOBI03 **lab code:** CHEM **case no.:** Q1382 **sas no.:** Q1382
matrix: Solid **sample id:** Q1384-01 **client id:** OR-03-021823025MSD
Percent Solids for Sample: 88.6 **Spiked ID:** Q1384-01MSD **Percent Solids for Spike Sample:** 88.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	5120		4950		99.0	171		P
Antimony	mg/Kg	79 - 114	5.81		2.50	U	39.6	15	N	P
Arsenic	mg/Kg	82 - 111	34.5		0.91	J	39.6	85		P
Barium	mg/Kg	83 - 113	37.8		22.3		9.9	157	N	P
Beryllium	mg/Kg	83 - 113	7.64		0.31		9.9	74	N	P
Cadmium	mg/Kg	82 - 113	9.16		0.30	U	9.9	92		P
Calcium	mg/Kg	81 - 116	2950		3290		49.5	-681		P
Chromium	mg/Kg	85 - 113	25.1		7.64		19.8	88		P
Cobalt	mg/Kg	85 - 112	15.8		5.00		9.9	110		P
Copper	mg/Kg	81 - 117	28.3		15.2		14.9	88		P
Iron	mg/Kg	81 - 118	8390		8480		150	-59		P
Lead	mg/Kg	81 - 112	56.0		16.2		49.5	80	N	P
Magnesium	mg/Kg	78 - 115	1920		2210		99.0	-296		P
Manganese	mg/Kg	84 - 114	175		179		9.9	-39		P
Nickel	mg/Kg	83 - 113	32.6		9.50		24.8	93		P
Potassium	mg/Kg	81 - 116	924		515		500	82		P
Selenium	mg/Kg	78 - 111	71.9		1.00	U	99.0	73	N	P
Silver	mg/Kg	82 - 112	2.77		0.50	U	3.7	75	N	P
Sodium	mg/Kg	83 - 118	716		592		150	83		P
Thallium	mg/Kg	83 - 111	90.2		2.00	U	99.0	91		P
Vanadium	mg/Kg	82 - 114	23.8		14.8		14.9	60	N	P
Zinc	mg/Kg	82 - 113	34.5		21.0		9.9	136	N	P

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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1382
contract: NOBI03 **lab code:** CHEM **case no.:** Q1382 **sas no.:** Q1382
matrix: Solid **sample id:** Q1388-01 **client id:** 72-12016MS
Percent Solids for Sample: 91.5 **Spiked ID:** Q1388-01MS **Percent Solids for Spike Sample:** 91.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.25		0.015		0.27	88		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1382
contract: NOBI03 **lab code:** CHEM **case no.:** Q1382 **sas no.:** Q1382
matrix: Solid **sample id:** Q1388-01 **client id:** 72-12016MSD
Percent Solids for Sample: 91.5 **Spiked ID:** Q1388-01MSD **Percent Solids for Spike Sample:** 91.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.30		0.015		0.29	98		CV