

metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2259
contract: NOBI03 **lab code:** CHEM **case no.:** Q2259 **sas no.:** Q2259
matrix: Solid **sample id:** Q2260-01 **client id:** TP10-MHG-WCMS
Percent Solids for Sample: 90.6 **Spiked ID:** Q2260-01MS **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	9190		8000		100	1194		P
Antimony	mg/Kg	79 - 114	15.6		2.35	U	41.1	38	N	P
Arsenic	mg/Kg	82 - 111	41.5		6.73		41.1	85		P
Barium	mg/Kg	83 - 113	33.7		25.4		10.3	80	N	P
Beryllium	mg/Kg	83 - 113	9.71		1.13		10.3	83		P
Cadmium	mg/Kg	82 - 113	11.8		1.50		10.3	100		P
Calcium	mg/Kg	81 - 116	1030		916		51.3	218		P
Chromium	mg/Kg	85 - 113	26.9		9.52		20.5	85		P
Cobalt	mg/Kg	85 - 112	22.7		12.4		10.3	100		P
Copper	mg/Kg	81 - 117	25.3		21.5		15.4	25	N	P
Iron	mg/Kg	81 - 118	28200		27600		150	419		P
Lead	mg/Kg	81 - 112	54.4		10.6		51.3	85		P
Magnesium	mg/Kg	78 - 115	767		676		100	92		P
Manganese	mg/Kg	84 - 114	286		275		10.3	106		P
Nickel	mg/Kg	83 - 113	41.0		15.1		25.7	101		P
Potassium	mg/Kg	81 - 116	816		403		510	81		P
Selenium	mg/Kg	78 - 111	72.4		0.94	U	100	72	N	P
Silver	mg/Kg	82 - 112	2.61		0.47	U	3.9	67	N	P
Sodium	mg/Kg	83 - 118	870		686		150	123		P
Thallium	mg/Kg	83 - 111	91.3		1.88	U	100	91		P
Vanadium	mg/Kg	82 - 114	40.7		27.3		15.4	87		P
Zinc	mg/Kg	82 - 113	35.5		32.1		10.3	33	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2259
contract: NOBI03 **lab code:** CHEM **case no.:** Q2259 **sas no.:** Q2259
matrix: Solid **sample id:** Q2260-01 **client id:** TP10-MHG-WCMSD
Percent Solids for Sample: 90.6 **Spiked ID:** Q2260-01MSD **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	9490		8000		97.7	1531		P
Antimony	mg/Kg	79 - 114	14.0		2.35	U	39.1	36	N	P
Arsenic	mg/Kg	82 - 111	38.4		6.73		39.1	81	N	P
Barium	mg/Kg	83 - 113	31.8		25.4		9.8	66	N	P
Beryllium	mg/Kg	83 - 113	9.08		1.13		9.8	81	N	P
Cadmium	mg/Kg	82 - 113	11.2		1.50		9.8	99		P
Calcium	mg/Kg	81 - 116	957		916		48.8	83		P
Chromium	mg/Kg	85 - 113	25.2		9.52		19.5	80	N	P
Cobalt	mg/Kg	85 - 112	21.7		12.4		9.8	94		P
Copper	mg/Kg	81 - 117	23.8		21.5		14.7	15	N	P
Iron	mg/Kg	81 - 118	26000		27600		150	-1061		P
Lead	mg/Kg	81 - 112	51.3		10.6		48.8	83		P
Magnesium	mg/Kg	78 - 115	796		676		97.7	123		P
Manganese	mg/Kg	84 - 114	262		275		9.8	-133		P
Nickel	mg/Kg	83 - 113	39.0		15.1		24.4	98		P
Potassium	mg/Kg	81 - 116	799		403		490	81		P
Selenium	mg/Kg	78 - 111	66.0		0.94	U	97.7	68	N	P
Silver	mg/Kg	82 - 112	2.24		0.47	U	3.7	60	N	P
Sodium	mg/Kg	83 - 118	846		686		150	106		P
Thallium	mg/Kg	83 - 111	85.6		1.88	U	97.7	88		P
Vanadium	mg/Kg	82 - 114	38.1		27.3		14.7	73	N	P
Zinc	mg/Kg	82 - 113	34.2		32.1		9.8	21	N	P

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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2259
contract: NOBI03 **lab code:** CHEM **case no.:** Q2259 **sas no.:** Q2259
matrix: Solid **sample id:** Q2266-05 **client id:** WC-5MS
Percent Solids for Sample: 87.6 **Spiked ID:** Q2266-05MS **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.26		0.015	U	0.28	93		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group level: low sdg no.: Q2259
contract: NOBI03 lab code: CHEM case no.: Q2259 sas no.: Q2259
matrix: Solid sample id: Q2266-05 client id: WC-5MSD
Percent Solids for Sample: 87.6 Spiked ID: Q2266-05MSD Percent Solids for Spike Sample: 87.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.27		0.015	U	0.29	92		CV