

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2413
contract: CAMP02 **lab code:** CHEM **case no.:** Q2413 **sas no.:** Q2413
matrix: Solid **sample id:** Q2425-03 **client id:** COMP-3MS
Percent Solids for Sample: 82.6 **Spiked ID:** Q2425-03MS **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	13400		11400		110	1972		P
Antimony	mg/Kg	75 - 125	17.5		1.43	J	42.1	38	N	P
Arsenic	mg/Kg	75 - 125	49.4		7.98		42.1	98		P
Barium	mg/Kg	75 - 125	57.9		46.5		10.5	109		P
Beryllium	mg/Kg	75 - 125	9.94		0.86		10.5	86		P
Cadmium	mg/Kg	75 - 125	10.2		0.31	U	10.5	97		P
Calcium	mg/Kg	75 - 125	1310		1210		52.6	188		P
Chromium	mg/Kg	75 - 125	37.4		17.8		21.1	93		P
Cobalt	mg/Kg	75 - 125	18.7		7.69		10.5	104		P
Copper	mg/Kg	75 - 125	22.2		7.82		15.8	91		P
Iron	mg/Kg	75 - 125	21600		19100		160	1569		P
Lead	mg/Kg	75 - 125	65.8		15.8		52.6	95		P
Magnesium	mg/Kg	75 - 125	1890		1610		110	271		P
Manganese	mg/Kg	75 - 125	178		180		10.5	-15		P
Mercury	mg/Kg	80 - 120	0.42		0.10		0.3	107		CV
Nickel	mg/Kg	75 - 125	39.7		12.2		26.3	104		P
Potassium	mg/Kg	75 - 125	1400		760		530	122		P
Selenium	mg/Kg	75 - 125	86.2		5.97		110	76		P
Silver	mg/Kg	75 - 125	3.45		0.18	J	3.9	83		P
Sodium	mg/Kg	75 - 125	266		132		160	84		P
Thallium	mg/Kg	75 - 125	101		2.03	U	110	96		P
Vanadium	mg/Kg	75 - 125	46.5		29.2		15.8	109		P
Zinc	mg/Kg	75 - 125	39.8		27.8		10.5	114		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2413
contract: CAMP02 **lab code:** CHEM **case no.:** Q2413 **sas no.:** Q2413
matrix: Solid **sample id:** Q2425-03 **client id:** COMP-3MSD
Percent Solids for Sample: 82.6 **Spiked ID:** Q2425-03MSD **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	14800		11400		110	3258		P
Antimony	mg/Kg	75 - 125	18.4		1.43	J	42.5	40	N	P
Arsenic	mg/Kg	75 - 125	52.6		7.98		42.5	105		P
Barium	mg/Kg	75 - 125	58.6		46.5		10.6	114		P
Beryllium	mg/Kg	75 - 125	10.7		0.86		10.6	93		P
Cadmium	mg/Kg	75 - 125	10.7		0.31	U	10.6	101		P
Calcium	mg/Kg	75 - 125	1410		1210		53.1	373		P
Chromium	mg/Kg	75 - 125	41.1		17.8		21.2	110		P
Cobalt	mg/Kg	75 - 125	19.5		7.69		10.6	112		P
Copper	mg/Kg	75 - 125	24.8		7.82		15.9	106		P
Iron	mg/Kg	75 - 125	24100		19100		160	3127		P
Lead	mg/Kg	75 - 125	71.0		15.8		53.1	104		P
Magnesium	mg/Kg	75 - 125	2020		1610		110	385		P
Manganese	mg/Kg	75 - 125	162		180		10.6	-166		P
Mercury	mg/Kg	80 - 120	0.45		0.10		0.32	109		CV
Nickel	mg/Kg	75 - 125	42.0		12.2		26.5	112		P
Potassium	mg/Kg	75 - 125	1560		760		530	150	N	P
Selenium	mg/Kg	75 - 125	92.8		5.97		110	82		P
Silver	mg/Kg	75 - 125	3.51		0.18	J	4.0	84		P
Sodium	mg/Kg	75 - 125	285		132		160	96		P
Thallium	mg/Kg	75 - 125	107		2.03	U	110	101		P
Vanadium	mg/Kg	75 - 125	50.3		29.2		15.9	132	N	P
Zinc	mg/Kg	75 - 125	43.5		27.8		10.6	148	N	P