

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q1982
contract: CAMP02 **lab code:** CHEM **case no.:** Q1982 **sas no.:** Q1982
matrix: Solid **sample id:** Q1982-03 **client id:** TP-3MS
Percent Solids for Sample: 90.7 **Spiked ID:** Q1982-03MS **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7410		6860		99.8	546		P
Antimony	mg/Kg	75 - 125	10.5		2.61	U	39.9	26	N	P
Arsenic	mg/Kg	75 - 125	26.8		0.98	J	39.9	65	N	P
Barium	mg/Kg	75 - 125	43.1		32.2		10.0	109		P
Beryllium	mg/Kg	75 - 125	6.73		0.54		10.0	62	N	P
Cadmium	mg/Kg	75 - 125	9.18		0.073	J	10.0	91		P
Calcium	mg/Kg	75 - 125	158		127		49.9	61	N	P
Chromium	mg/Kg	75 - 125	17.3		4.97		20.0	62	N	P
Cobalt	mg/Kg	75 - 125	12.1		2.79		10.0	93		P
Copper	mg/Kg	75 - 125	11.6		2.12		15.0	63	N	P
Iron	mg/Kg	75 - 125	9840		9220		150	410		P
Lead	mg/Kg	75 - 125	47.7		3.44		49.9	89		P
Magnesium	mg/Kg	75 - 125	266		180		99.8	86		P
Manganese	mg/Kg	75 - 125	22.8		15.0		10.0	77		P
Nickel	mg/Kg	75 - 125	26.4		3.55		24.9	92		P
Potassium	mg/Kg	75 - 125	469		121		500	70	N	P
Selenium	mg/Kg	75 - 125	61.4		1.05	U	99.8	62	N	P
Silver	mg/Kg	75 - 125	2.63		0.52	U	3.7	71	N	P
Sodium	mg/Kg	75 - 125	192		85.7	J	150	71	N	P
Thallium	mg/Kg	75 - 125	91.0		2.09	U	99.8	91		P
Vanadium	mg/Kg	75 - 125	21.0		10.8		15.0	68	N	P
Zinc	mg/Kg	75 - 125	15.8		9.47		10.0	64	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q1982
contract: CAMP02 **lab code:** CHEM **case no.:** Q1982 **sas no.:** Q1982
matrix: Solid **sample id:** Q1982-03 **client id:** TP-3MSD
Percent Solids for Sample: 90.7 **Spiked ID:** Q1982-03MSD **Percent Solids for Spike Sample:** 90.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7580		6860		100	716		P
Antimony	mg/Kg	75 - 125	11.2		2.61	U	40.5	28	N	P
Arsenic	mg/Kg	75 - 125	28.1		0.98	J	40.5	67	N	P
Barium	mg/Kg	75 - 125	41.1		32.2		10.1	88		P
Beryllium	mg/Kg	75 - 125	7.40		0.54		10.1	68	N	P
Cadmium	mg/Kg	75 - 125	9.34		0.073	J	10.1	92		P
Calcium	mg/Kg	75 - 125	164		127		50.6	74	N	P
Chromium	mg/Kg	75 - 125	18.0		4.97		20.2	64	N	P
Cobalt	mg/Kg	75 - 125	12.5		2.79		10.1	96		P
Copper	mg/Kg	75 - 125	12.4		2.12		15.2	67	N	P
Iron	mg/Kg	75 - 125	9490		9220		150	178		P
Lead	mg/Kg	75 - 125	48.2		3.44		50.6	88		P
Magnesium	mg/Kg	75 - 125	248		180		100	68	N	P
Manganese	mg/Kg	75 - 125	23.4		15.0		10.1	83		P
Nickel	mg/Kg	75 - 125	26.7		3.55		25.3	91		P
Potassium	mg/Kg	75 - 125	430		121		510	61	N	P
Selenium	mg/Kg	75 - 125	64.0		1.05	U	100	64	N	P
Silver	mg/Kg	75 - 125	2.58		0.52	U	3.8	68	N	P
Sodium	mg/Kg	75 - 125	184		85.7	J	150	66	N	P
Thallium	mg/Kg	75 - 125	94.1		2.09	U	100	94		P
Vanadium	mg/Kg	75 - 125	22.1		10.8		15.2	75		P
Zinc	mg/Kg	75 - 125	16.4		9.47		10.1	68	N	P

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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q1982
contract: CAMP02 **lab code:** CHEM **case no.:** Q1982 **sas no.:** Q1982
matrix: Solid **sample id:** Q1983-01 **client id:** OR-636-COMP-01MS
Percent Solids for Sample: 88.8 **Spiked ID:** Q1983-01MS **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.026		0.29	84		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q1982
contract: CAMP02 **lab code:** CHEM **case no.:** Q1982 **sas no.:** Q1982
matrix: Solid **sample id:** Q1983-01 **client id:** OR-636-COMP-01MSD
Percent Solids for Sample: 88.8 **Spiked ID:** Q1983-01MSD **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.25		0.026		0.27	83		CV