

metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q3257
contract: CAMP02 **lab code:** ACE
matrix: Solid **sample id:** Q3256-01 **client id:** SOIL-PILE-1-WCMS

Percent Solids for Sample: 87.7 **Spiked ID:** Q3256-01MS **Percent Solids for Spike Sample:** 87.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7730		6980		95.0	790		P
Antimony	mg/Kg	75 - 125	17.8		2.42	U	38.0	47	N	P
Arsenic	mg/Kg	75 - 125	43.8		6.80		38.0	97		P
Barium	mg/Kg	75 - 125	68.3		66.9		9.5	15		P
Beryllium	mg/Kg	75 - 125	9.50		0.61		9.5	94		P
Cadmium	mg/Kg	75 - 125	10.8		0.28	J	9.5	110		P
Calcium	mg/Kg	75 - 125	8930		11400		47.5	-5176		P
Chromium	mg/Kg	75 - 125	32.6		13.0		19.0	103		P
Cobalt	mg/Kg	75 - 125	14.4		4.93		9.5	100		P
Copper	mg/Kg	75 - 125	48.8		31.6		14.3	120		P
Iron	mg/Kg	75 - 125	9340		10000		140	-504		P
Lead	mg/Kg	75 - 125	206		158		47.5	102		P
Magnesium	mg/Kg	75 - 125	1510		1400		95.0	112		P
Manganese	mg/Kg	75 - 125	132		157		9.5	-262		P
Nickel	mg/Kg	75 - 125	35.0		10.0		23.8	105		P
Potassium	mg/Kg	75 - 125	939		548		480	81		P
Selenium	mg/Kg	75 - 125	91.5		0.97	U	95.0	96		P
Silver	mg/Kg	75 - 125	2.47		0.48	U	3.6	69	N	P
Sodium	mg/Kg	75 - 125	1310		1370		140	-45		P
Thallium	mg/Kg	75 - 125	99.3		1.93	U	95.0	104		P
Vanadium	mg/Kg	75 - 125	30.8		17.6		14.3	92		P
Zinc	mg/Kg	75 - 125	117		109		9.5	84		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>CDM Smith</u>	level: <u>low</u>	sdg no.: <u>Q3257</u>
contract: <u>CAMP02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3256-01</u>	client id: <u>SOIL-PILE-1-WCMSD</u>
Percent Solids for Sample: 87.7	Spiked ID: Q3256-01MSD	Percent Solids for Spike Sample: 87.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7310		6980		95.0	347		P
Antimony	mg/Kg	75 - 125	17.0		2.42	U	38.0	45	N	P
Arsenic	mg/Kg	75 - 125	43.2		6.80		38.0	96		P
Barium	mg/Kg	75 - 125	68.1		66.9		9.5	13		P
Beryllium	mg/Kg	75 - 125	9.08		0.61		9.5	89		P
Cadmium	mg/Kg	75 - 125	10.2		0.28	J	9.5	104		P
Calcium	mg/Kg	75 - 125	9940		11400		47.5	-3033		P
Chromium	mg/Kg	75 - 125	43.3		13.0		19.0	160	N	P
Cobalt	mg/Kg	75 - 125	13.8		4.93		9.5	94		P
Copper	mg/Kg	75 - 125	48.1		31.6		14.3	115		P
Iron	mg/Kg	75 - 125	12600		10000		140	1829		P
Lead	mg/Kg	75 - 125	224		158		47.5	139	N	P
Magnesium	mg/Kg	75 - 125	1470		1400		95.0	73		P
Manganese	mg/Kg	75 - 125	138		157		9.5	-209		P
Nickel	mg/Kg	75 - 125	33.6		10.0		23.8	99		P
Potassium	mg/Kg	75 - 125	940		548		480	82		P
Selenium	mg/Kg	75 - 125	87.2		0.97	U	95.0	92		P
Silver	mg/Kg	75 - 125	2.06		0.48	U	3.6	57	N	P
Sodium	mg/Kg	75 - 125	1330		1370		140	-30		P
Thallium	mg/Kg	75 - 125	95.6		1.93	U	95.0	101		P
Vanadium	mg/Kg	75 - 125	31.5		17.6		14.3	98		P
Zinc	mg/Kg	75 - 125	119		109		9.5	100		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q3257</u>
contract:	<u>CAMP02</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3257-02</u>	client id:	<u>ENV2-6FTMS</u>
Percent Solids for Sample:	84.7	Spiked ID:	Q3257-02MS	Percent Solids for Spike Sample:	84.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.016	U	0.3	103		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q3257</u>
contract:	<u>CAMP02</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3257-02</u>	client id:	<u>ENV2-6FTMSD</u>
Percent Solids for Sample:	84.7	Spiked ID:	Q3257-02MSD	Percent Solids for Spike Sample:	84.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.016	U	0.3	106		CV