

metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074
contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074
matrix: Solid **sample id:** Q2074-08 **client id:** TP-18MS
Percent Solids for Sample: 78 **Spiked ID:** Q2074-08MS **Percent Solids for Spike Sample:** 78

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.030		0.33	83		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>CDM Smith</u>	level:	<u>low</u>	sdg no.:	<u>Q2074</u>		
contract:	<u>CAMP02</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2074</u>	sas no.:	<u>Q2074</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2074-08</u>	client id:	<u>TP-18MSD</u>		
Percent Solids for Sample:	<u>78</u>	Spiked ID:	<u>Q2074-08MSD</u>	Percent Solids for Spike Sample:	<u>78</u>		

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.030		0.33	94		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074
contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074
matrix: Solid **sample id:** Q2080-01 **client id:** PL-HRH-COMP-01MS
Percent Solids for Sample: 86.5 **Spiked ID:** Q2080-01MS **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11400		9940		110	1374		P
Antimony	mg/Kg	75 - 125	15.4		2.51	U	42.8	36	N	P
Arsenic	mg/Kg	75 - 125	40.6		5.09		42.8	83		P
Barium	mg/Kg	75 - 125	94.4		86.8		10.7	71		P
Beryllium	mg/Kg	75 - 125	9.99		0.78		10.7	86		P
Cadmium	mg/Kg	75 - 125	10.2		0.097	J	10.7	95		P
Calcium	mg/Kg	75 - 125	987		906		53.5	151		P
Chromium	mg/Kg	75 - 125	37.1		18.4		21.4	87		P
Cobalt	mg/Kg	75 - 125	20.9		10.1		10.7	102		P
Copper	mg/Kg	75 - 125	23.8		9.77		16.1	87		P
Iron	mg/Kg	75 - 125	21000		22500		160	-974		P
Lead	mg/Kg	75 - 125	74.3		23.7		53.5	95		P
Magnesium	mg/Kg	75 - 125	4060		3360		110	639		P
Manganese	mg/Kg	75 - 125	620		615		10.7	51		P
Nickel	mg/Kg	75 - 125	46.3		18.9		26.8	102		P
Potassium	mg/Kg	75 - 125	1450		858		540	109		P
Selenium	mg/Kg	75 - 125	84.7		2.06		110	75		P
Silver	mg/Kg	75 - 125	3.49		0.14	J	4.0	84		P
Sodium	mg/Kg	75 - 125	253		98.7	J	160	97		P
Thallium	mg/Kg	75 - 125	97.3		1.68	J	110	87		P
Vanadium	mg/Kg	75 - 125	38.3		24.9		16.1	83		P
Zinc	mg/Kg	75 - 125	68.6		53.0		10.7	146		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2074
contract: CAMP02 **lab code:** CHEM **case no.:** Q2074 **sas no.:** Q2074
matrix: Solid **sample id:** Q2080-01 **client id:** PL-HRH-COMP-01MSD
Percent Solids for Sample: 86.5 **Spiked ID:** Q2080-01MSD **Percent Solids for Spike Sample:** 86.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11300		9940		98.4	1413		P
Antimony	mg/Kg	75 - 125	14.5		2.51	U	39.4	37	N	P
Arsenic	mg/Kg	75 - 125	37.1		5.09		39.4	81		P
Barium	mg/Kg	75 - 125	96.8		86.8		9.8	102		P
Beryllium	mg/Kg	75 - 125	8.28		0.78		9.8	77		P
Cadmium	mg/Kg	75 - 125	9.13		0.097	J	9.8	92		P
Calcium	mg/Kg	75 - 125	957		906		49.2	104		P
Chromium	mg/Kg	75 - 125	35.6		18.4		19.7	87		P
Cobalt	mg/Kg	75 - 125	20.8		10.1		9.8	109		P
Copper	mg/Kg	75 - 125	22.2		9.77		14.8	84		P
Iron	mg/Kg	75 - 125	23300		22500		150	538		P
Lead	mg/Kg	75 - 125	69.7		23.7		49.2	94		P
Magnesium	mg/Kg	75 - 125	4070		3360		98.4	727		P
Manganese	mg/Kg	75 - 125	564		615		9.8	-519		P
Nickel	mg/Kg	75 - 125	45.6		18.9		24.6	109		P
Potassium	mg/Kg	75 - 125	1560		858		490	144	N	P
Selenium	mg/Kg	75 - 125	77.6		2.06		98.4	77		P
Silver	mg/Kg	75 - 125	3.56		0.14	J	3.7	92		P
Sodium	mg/Kg	75 - 125	261		98.7	J	150	108		P
Thallium	mg/Kg	75 - 125	91.3		1.68	J	98.4	91		P
Vanadium	mg/Kg	75 - 125	36.5		24.9		14.8	78		P
Zinc	mg/Kg	75 - 125	69.2		53.0		9.8	165		P