

metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744
contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744
matrix: Solid **sample id:** Q1745-09 **client id:** IB-6.5-WCMS
Percent Solids for Sample: 71.5 **Spiked ID:** Q1745-09MS **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5740		5630		130	82		P
Antimony	mg/Kg	75 - 125	49.3		3.35	U	53.5	92		P
Arsenic	mg/Kg	75 - 125	82.2		36.0		53.5	86		P
Barium	mg/Kg	75 - 125	403		386		13.4	129		P
Beryllium	mg/Kg	75 - 125	10.8		0.54		13.4	77		P
Cadmium	mg/Kg	75 - 125	12.4		0.13	J	13.4	91		P
Calcium	mg/Kg	75 - 125	9880		9780		66.9	149		P
Chromium	mg/Kg	75 - 125	39.0		16.2		26.8	85		P
Cobalt	mg/Kg	75 - 125	18.7		6.11		13.4	94		P
Copper	mg/Kg	75 - 125	230		217		20.1	63		P
Iron	mg/Kg	75 - 125	18100		18500		200	-219		P
Lead	mg/Kg	75 - 125	740		694		66.9	69		P
Magnesium	mg/Kg	75 - 125	1140		1030		130	86		P
Manganese	mg/Kg	75 - 125	207		193		13.4	103		P
Nickel	mg/Kg	75 - 125	57.1		26.1		33.5	93		P
Potassium	mg/Kg	75 - 125	1810		1240		670	85		P
Selenium	mg/Kg	75 - 125	115		1.34	U	130	88		P
Silver	mg/Kg	75 - 125	7.33		3.03		5.0	86		P
Sodium	mg/Kg	75 - 125	1270		1130		200	73		P
Thallium	mg/Kg	75 - 125	120		0.76	J	130	92		P
Vanadium	mg/Kg	75 - 125	37.8		21.1		20.1	83		P
Zinc	mg/Kg	75 - 125	298		292		13.4	43		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744
contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744
matrix: Solid **sample id:** Q1745-09 **client id:** IB-6.5-WCMSD
Percent Solids for Sample: 71.5 **Spiked ID:** Q1745-09MSD **Percent Solids for Spike Sample:** 71.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5680		5630		130	40		P
Antimony	mg/Kg	75 - 125	47.3		3.35	U	52.5	90		P
Arsenic	mg/Kg	75 - 125	79.3		36.0		52.5	82		P
Barium	mg/Kg	75 - 125	425		386		13.1	297		P
Beryllium	mg/Kg	75 - 125	9.94		0.54		13.1	72	N	P
Cadmium	mg/Kg	75 - 125	11.8		0.13	J	13.1	89		P
Calcium	mg/Kg	75 - 125	9780		9780		65.7	-10		P
Chromium	mg/Kg	75 - 125	37.9		16.2		26.3	82		P
Cobalt	mg/Kg	75 - 125	18.1		6.11		13.1	91		P
Copper	mg/Kg	75 - 125	223		217		19.7	28		P
Iron	mg/Kg	75 - 125	18400		18500		200	-31		P
Lead	mg/Kg	75 - 125	725		694		65.7	47		P
Magnesium	mg/Kg	75 - 125	1120		1030		130	69		P
Manganese	mg/Kg	75 - 125	204		193		13.1	84		P
Nickel	mg/Kg	75 - 125	55.3		26.1		32.8	89		P
Potassium	mg/Kg	75 - 125	1870		1240		660	94		P
Selenium	mg/Kg	75 - 125	110		1.34	U	130	85		P
Silver	mg/Kg	75 - 125	7.24		3.03		4.9	86		P
Sodium	mg/Kg	75 - 125	1300		1130		200	84		P
Thallium	mg/Kg	75 - 125	116		0.76	J	130	89		P
Vanadium	mg/Kg	75 - 125	37.0		21.1		19.7	81		P
Zinc	mg/Kg	75 - 125	289		292		13.1	-17		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744
contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744
matrix: Solid **sample id:** Q1753-05 **client id:** WC-2MS
Percent Solids for Sample: 89 **Spiked ID:** Q1753-05MS **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.23		0.026		0.3	69	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1744
contract: PORT06 **lab code:** CHEM **case no.:** Q1744 **sas no.:** Q1744
matrix: Solid **sample id:** Q1753-05 **client id:** WC-2MSD
Percent Solids for Sample: 89 **Spiked ID:** Q1753-05MSD **Percent Solids for Spike Sample:** 89

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.18		0.026		0.28	56	N	CV