

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2400
contract: PORT06 **lab code:** CHEM **case no.:** Q2400 **sas no.:** Q2400
matrix: Solid **sample id:** Q2393-11 **client id:** PARK AVE -6MS
Percent Solids for Sample: 86.8 **Spiked ID:** Q2393-11MS **Percent Solids for Spike Sample:** 86.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	9700		8830		100	857		P
Antimony	mg/Kg	75 - 125	12.5		2.40	J	40.6	25	N	P
Arsenic	mg/Kg	75 - 125	41.0		4.93		40.6	89		P
Barium	mg/Kg	75 - 125	57.6		49.4		10.2	81		P
Beryllium	mg/Kg	75 - 125	8.36		0.96		10.2	73	N	P
Cadmium	mg/Kg	75 - 125	9.50		0.31	U	10.2	94		P
Calcium	mg/Kg	75 - 125	4960		6090		50.8	-2234		P
Chromium	mg/Kg	75 - 125	25.8		17.9		20.3	39	N	P
Cobalt	mg/Kg	75 - 125	20.9		12.7		10.2	80		P
Copper	mg/Kg	75 - 125	27.9		29.5		15.2	-11	N	P
Iron	mg/Kg	75 - 125	18500		37800		150	-12673		P
Lead	mg/Kg	75 - 125	60.9		15.5		50.8	90		P
Magnesium	mg/Kg	75 - 125	2490		2600		100	-105		P
Manganese	mg/Kg	75 - 125	342		575		10.2	-2292		P
Nickel	mg/Kg	75 - 125	37.3		21.3		25.4	63	N	P
Potassium	mg/Kg	75 - 125	1110		692		510	82		P
Selenium	mg/Kg	75 - 125	74.2		11.5		100	62	N	P
Silver	mg/Kg	75 - 125	3.24		1.34		3.8	50	N	P
Sodium	mg/Kg	75 - 125	404		363		150	27	N	P
Thallium	mg/Kg	75 - 125	93.4		2.06	U	100	92		P
Vanadium	mg/Kg	75 - 125	43.5		34.8		15.2	58	N	P
Zinc	mg/Kg	75 - 125	39.2		38.0		10.2	13	N	P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2400
contract: PORT06 **lab code:** CHEM **case no.:** Q2400 **sas no.:** Q2400
matrix: Solid **sample id:** Q2393-11 **client id:** PARK AVE -6MSD
Percent Solids for Sample: 86.8 **Spiked ID:** Q2393-11MSD **Percent Solids for Spike Sample:** 86.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8190		8830		100	-621		P
Antimony	mg/Kg	75 - 125	14.0		2.40	J	41.5	28	N	P
Arsenic	mg/Kg	75 - 125	44.0		4.93		41.5	94		P
Barium	mg/Kg	75 - 125	48.5		49.4		10.4	-9		P
Beryllium	mg/Kg	75 - 125	9.06		0.96		10.4	78		P
Cadmium	mg/Kg	75 - 125	10.4		0.31	U	10.4	100		P
Calcium	mg/Kg	75 - 125	6420		6090		51.9	633		P
Chromium	mg/Kg	75 - 125	25.4		17.9		20.8	36	N	P
Cobalt	mg/Kg	75 - 125	19.5		12.7		10.4	66	N	P
Copper	mg/Kg	75 - 125	27.6		29.5		15.6	-12	N	P
Iron	mg/Kg	75 - 125	15300		37800		160	-14476		P
Lead	mg/Kg	75 - 125	62.6		15.5		51.9	91		P
Magnesium	mg/Kg	75 - 125	2220		2600		100	-362		P
Manganese	mg/Kg	75 - 125	267		575		10.4	-2963		P
Nickel	mg/Kg	75 - 125	36.6		21.3		25.9	59	N	P
Potassium	mg/Kg	75 - 125	1070		692		520	72	N	P
Selenium	mg/Kg	75 - 125	82.2		11.5		100	68	N	P
Silver	mg/Kg	75 - 125	3.43		1.34		3.9	54	N	P
Sodium	mg/Kg	75 - 125	412		363		160	32	N	P
Thallium	mg/Kg	75 - 125	102		2.06	U	100	98		P
Vanadium	mg/Kg	75 - 125	37.2		34.8		15.6	16	N	P
Zinc	mg/Kg	75 - 125	36.0		38.0		10.4	-19	N	P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2400
contract: PORT06 **lab code:** CHEM **case no.:** Q2400 **sas no.:** Q2400
matrix: Solid **sample id:** Q2403-07 **client id:** ARS 20-0006MS
Percent Solids for Sample: 95.2 **Spiked ID:** Q2403-07MS **Percent Solids for Spike Sample:** 95.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.037		0.26	96		CV

metals

- 5a -

MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>Q2400</u>
contract:	<u>PORT06</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2400</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2403-07</u>	client id:	<u>ARS 20-0006MSD</u>
Percent Solids for Sample:	95.2	Spiked ID:	Q2403-07MSD	Percent Solids for Spike Sample:	95.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.29		0.037		0.28	89		CV