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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194
contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194
matrix: Solid **sample id:** Q1169-05 **client id:** SPILL-SITEMS
Percent Solids for Sample: 89.7 **Spiked ID:** Q1169-05MS **Percent Solids for Spike Sample:** 89.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.049		0.28	92		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>Q1194</u>	
contract:	<u>PORT06</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q1194</u>	sas no.: <u>Q1194</u>
matrix:	<u>Solid</u>	sample id:	<u>Q1169-05</u>	client id:	<u>SPILL-SITEMSD</u>	
Percent Solids for Sample:	89.7	Spiked ID:	Q1169-05MSD	Percent Solids for Spike Sample:	89.7	

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.32		0.049		0.29	94		CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194
contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194
matrix: Water **sample id:** Q1193-01 **client id:** TAPIAL3-MW04S-012425-00-T3MS
Percent Solids for Sample: NA **Spiked ID:** Q1193-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	4.52		0.20	U	4.0	113		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>Q1194</u>		
contract:	<u>PORT06</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q1194</u>	sas no.:	<u>Q1194</u>
matrix:	<u>Water</u>	sample id:	<u>Q1193-01</u>	client id:	<u>TAPIAL3-MW04S-012425-00-T3MSD</u>		
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q1193-01MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>		

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	4.53		0.20	U	4.0	113		CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194
contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194
matrix: Solid **sample id:** Q1194-04 **client id:** B-113-SB02MS
Percent Solids for Sample: 64.7 **Spiked ID:** Q1194-04MS **Percent Solids for Spike Sample:** 64.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	10800		10400		150	332		P
Antimony	mg/Kg	75 - 125	43.6		3.51	U	58.1	75		P
Arsenic	mg/Kg	75 - 125	52.7		7.87		58.1	77		P
Barium	mg/Kg	75 - 125	40.0		28.3		14.5	81		P
Beryllium	mg/Kg	75 - 125	10.8		0.89		14.5	68	N	P
Cadmium	mg/Kg	75 - 125	13.9		0.40	J	14.5	93		P
Calcium	mg/Kg	75 - 125	1630		1530		72.6	145		P
Chromium	mg/Kg	75 - 125	46.2		24.2		29.0	76		P
Cobalt	mg/Kg	75 - 125	26.7		12.7		14.5	97		P
Copper	mg/Kg	75 - 125	33.2		16.0		21.8	79		P
Iron	mg/Kg	75 - 125	27000		27100		220	-56		P
Lead	mg/Kg	75 - 125	80.8		14.3		72.6	91		P
Magnesium	mg/Kg	75 - 125	5320		5000		150	213		P
Manganese	mg/Kg	75 - 125	355		330		14.5	173		P
Nickel	mg/Kg	75 - 125	60.7		26.3		36.3	95		P
Potassium	mg/Kg	75 - 125	2520		1980		730	74	N	P
Selenium	mg/Kg	75 - 125	103		1.41	U	150	69	N	P
Silver	mg/Kg	75 - 125	4.21		0.15	J	5.4	75		P
Sodium	mg/Kg	75 - 125	1100		940		220	71		P
Thallium	mg/Kg	75 - 125	134		0.64	J	150	89		P
Vanadium	mg/Kg	75 - 125	42.9		26.2		21.8	76		P
Zinc	mg/Kg	75 - 125	73.6		62.0		14.5	80		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194
contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194
matrix: Solid **sample id:** Q1194-04 **client id:** B-113-SB02MSD
Percent Solids for Sample: 64.7 **Spiked ID:** Q1194-04MSD **Percent Solids for Spike Sample:** 64.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	9650		10400		130	-543		P
Antimony	mg/Kg	75 - 125	39.0		3.51	U	51.1	76		P
Arsenic	mg/Kg	75 - 125	47.4		7.87		51.1	77		P
Barium	mg/Kg	75 - 125	35.3		28.3		12.8	54	N	P
Beryllium	mg/Kg	75 - 125	9.46		0.89		12.8	67	N	P
Cadmium	mg/Kg	75 - 125	12.4		0.40	J	12.8	94		P
Calcium	mg/Kg	75 - 125	1450		1530		63.9	-123		P
Chromium	mg/Kg	75 - 125	41.3		24.2		25.5	67	N	P
Cobalt	mg/Kg	75 - 125	23.9		12.7		12.8	87		P
Copper	mg/Kg	75 - 125	29.1		16.0		19.2	68	N	P
Iron	mg/Kg	75 - 125	24500		27100		190	-1359		P
Lead	mg/Kg	75 - 125	72.4		14.3		63.9	91		P
Magnesium	mg/Kg	75 - 125	4700		5000		130	-228		P
Manganese	mg/Kg	75 - 125	313		330		12.8	-138		P
Nickel	mg/Kg	75 - 125	54.3		26.3		31.9	88		P
Potassium	mg/Kg	75 - 125	2290		1980		640	49	N	P
Selenium	mg/Kg	75 - 125	93.6		1.41	U	130	72	N	P
Silver	mg/Kg	75 - 125	3.85		0.15	J	4.8	77		P
Sodium	mg/Kg	75 - 125	998		940		190	30		P
Thallium	mg/Kg	75 - 125	121		0.64	J	130	92		P
Vanadium	mg/Kg	75 - 125	37.8		26.2		19.2	61	N	P
Zinc	mg/Kg	75 - 125	65.8		62.0		12.8	30		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194
contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194
matrix: Water **sample id:** Q1194-08 **client id:** EBMS
Percent Solids for Sample: NA **Spiked ID:** Q1194-08MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	977		50.0	U	1000	98		P
Antimony	ug/L	75 - 125	396		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	387		10.0	U	400	97		P
Barium	ug/L	75 - 125	90.8		50.0	U	100	91		P
Beryllium	ug/L	75 - 125	88.4		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	91.5		3.00	U	100	92		P
Calcium	ug/L	75 - 125	488	J	1000	U	500	98		P
Chromium	ug/L	75 - 125	211		5.00	U	200	106		P
Cobalt	ug/L	75 - 125	95.3		15.0	U	100	95		P
Copper	ug/L	75 - 125	154		10.0	U	150	103		P
Iron	ug/L	75 - 125	1470		50.0	U	1500	98		P
Lead	ug/L	75 - 125	463		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	919	J	1000	U	1000	92		P
Manganese	ug/L	75 - 125	92.2		21.3		100	71	N	P
Nickel	ug/L	75 - 125	238		20.0	U	250	95		P
Potassium	ug/L	75 - 125	4680		1000	U	5000	94		P
Selenium	ug/L	75 - 125	916		10.0	U	1000	92		P
Silver	ug/L	75 - 125	36.4		0.72	J	37.5	95		P
Sodium	ug/L	75 - 125	1320		1000	U	1500	88		P
Thallium	ug/L	75 - 125	922		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	145		20.0	U	150	97		P
Zinc	ug/L	75 - 125	102		20.0	U	100	102		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1194
contract: PORT06 **lab code:** CHEM **case no.:** Q1194 **sas no.:** Q1194
matrix: Water **sample id:** Q1194-08 **client id:** EBMSD
Percent Solids for Sample: NA **Spiked ID:** Q1194-08MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	980		50.0	U	1000	98		P
Antimony	ug/L	75 - 125	400		25.0	U	400	100		P
Arsenic	ug/L	75 - 125	389		10.0	U	400	97		P
Barium	ug/L	75 - 125	93.8		50.0	U	100	94		P
Beryllium	ug/L	75 - 125	87.2		3.00	U	100	87		P
Cadmium	ug/L	75 - 125	91.6		3.00	U	100	92		P
Calcium	ug/L	75 - 125	493	J	1000	U	500	99		P
Chromium	ug/L	75 - 125	210		5.00	U	200	105		P
Cobalt	ug/L	75 - 125	95.0		15.0	U	100	95		P
Copper	ug/L	75 - 125	155		10.0	U	150	103		P
Iron	ug/L	75 - 125	1500		50.0	U	1500	100		P
Lead	ug/L	75 - 125	465		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	924	J	1000	U	1000	92		P
Manganese	ug/L	75 - 125	94.4		21.3		100	73	N	P
Nickel	ug/L	75 - 125	239		20.0	U	250	96		P
Potassium	ug/L	75 - 125	4900		1000	U	5000	98		P
Selenium	ug/L	75 - 125	924		10.0	U	1000	92		P
Silver	ug/L	75 - 125	36.3		0.72	J	37.5	95		P
Sodium	ug/L	75 - 125	1420		1000	U	1500	95		P
Thallium	ug/L	75 - 125	931		20.0	U	1000	93		P
Vanadium	ug/L	75 - 125	146		20.0	U	150	97		P
Zinc	ug/L	75 - 125	102		20.0	U	100	102		P