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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Water **sample id:** Q1478-01 **client id:** IDW-AQ-MW-19B-COMP-022825MS
Percent Solids for Sample: NA **Spiked ID:** Q1478-01MS **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	75 - 125	3.54		0.20	U	4.0	88		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Water **sample id:** Q1478-01 **client id:** IDW-AQ-MW-19B-COMP-022825MSD
Percent Solids for Sample: NA **Spiked ID:** Q1478-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.47		0.20	U	4.0	87		CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Solid **sample id:** Q1515-01 **client id:** AU-06-030625MS
Percent Solids for Sample: 87.7 **Spiked ID:** Q1515-01MS **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	5850		5030		100	827		P
Antimony	mg/Kg	75 - 125	13.2		2.52	U	40.5	33	N	P
Arsenic	mg/Kg	75 - 125	51.3		15.4		40.5	89		P
Barium	mg/Kg	75 - 125	34.3		28.5		10.1	57	N	P
Beryllium	mg/Kg	75 - 125	8.04		0.71		10.1	73	N	P
Cadmium	mg/Kg	75 - 125	9.53		0.30	U	10.1	94		P
Calcium	mg/Kg	75 - 125	5990		4030		50.7	3859		P
Chromium	mg/Kg	75 - 125	54.7		34.6		20.3	99		P
Cobalt	mg/Kg	75 - 125	13.8		3.69		10.1	100		P
Copper	mg/Kg	75 - 125	24.0		7.81		15.2	107		P
Iron	mg/Kg	75 - 125	17200		15600		150	1052		P
Lead	mg/Kg	75 - 125	122		22.5		50.7	197	N	P
Magnesium	mg/Kg	75 - 125	1870		1160		100	714		P
Manganese	mg/Kg	75 - 125	50.3		47.4		10.1	29		P
Nickel	mg/Kg	75 - 125	32.7		8.23		25.3	97		P
Potassium	mg/Kg	75 - 125	1710		984		510	143	N	P
Selenium	mg/Kg	75 - 125	74.1		1.01	U	100	74	N	P
Silver	mg/Kg	75 - 125	3.13		0.51	U	3.8	82		P
Sodium	mg/Kg	75 - 125	260		105		150	103		P
Thallium	mg/Kg	75 - 125	93.2		0.52	J	100	93		P
Vanadium	mg/Kg	75 - 125	37.3		21.6		15.2	104		P
Zinc	mg/Kg	75 - 125	44.6		33.4		10.1	112		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Solid **sample id:** Q1515-01 **client id:** AU-06-030625MSD
Percent Solids for Sample: 87.7 **Spiked ID:** Q1515-01MSD **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	5570		5030		96.6	568		P
Antimony	mg/Kg	75 - 125	12.7		2.52	U	38.7	33	N	P
Arsenic	mg/Kg	75 - 125	49.0		15.4		38.7	87		P
Barium	mg/Kg	75 - 125	31.9		28.5		9.7	35	N	P
Beryllium	mg/Kg	75 - 125	7.82		0.71		9.7	73	N	P
Cadmium	mg/Kg	75 - 125	9.10		0.30	U	9.7	94		P
Calcium	mg/Kg	75 - 125	5650		4030		48.3	3350		P
Chromium	mg/Kg	75 - 125	52.2		34.6		19.3	91		P
Cobalt	mg/Kg	75 - 125	13.2		3.69		9.7	98		P
Copper	mg/Kg	75 - 125	23.0		7.81		14.5	105		P
Iron	mg/Kg	75 - 125	16000		15600		140	274		P
Lead	mg/Kg	75 - 125	116		22.5		48.3	194	N	P
Magnesium	mg/Kg	75 - 125	1780		1160		96.6	644		P
Manganese	mg/Kg	75 - 125	47.7		47.4		9.7	3		P
Nickel	mg/Kg	75 - 125	31.1		8.23		24.2	95		P
Potassium	mg/Kg	75 - 125	1580		984		480	124		P
Selenium	mg/Kg	75 - 125	70.4		1.01	U	96.6	73	N	P
Silver	mg/Kg	75 - 125	2.90		0.51	U	3.6	81		P
Sodium	mg/Kg	75 - 125	242		105		140	98		P
Thallium	mg/Kg	75 - 125	89.5		0.52	J	96.6	92		P
Vanadium	mg/Kg	75 - 125	35.5		21.6		14.5	96		P
Zinc	mg/Kg	75 - 125	42.2		33.4		9.7	91		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Water **sample id:** Q1522-02 **client id:** TW-WTS-04MS
Percent Solids for Sample: NA **Spiked ID:** Q1522-02MS **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	1350		386		1000	96		P
Antimony	ug/L	75 - 125	421		25.0	U	400	105		P
Arsenic	ug/L	75 - 125	418		10.0	U	400	104		P
Barium	ug/L	75 - 125	112		26.6	J	100	86		P
Beryllium	ug/L	75 - 125	95.0		3.00	U	100	95		P
Cadmium	ug/L	75 - 125	93.7		3.00	U	100	94		P
Calcium	ug/L	75 - 125	103000		103000		500	-86		P
Chromium	ug/L	75 - 125	207		5.00	U	200	104		P
Cobalt	ug/L	75 - 125	98.3		2.45	J	100	96		P
Copper	ug/L	75 - 125	149		10.0	U	150	99		P
Iron	ug/L	75 - 125	1510		120		1500	93		P
Lead	ug/L	75 - 125	457		6.92		500	90		P
Magnesium	ug/L	75 - 125	8500		7520		1000	98		P
Manganese	ug/L	75 - 125	160		54.9		100	105		P
Nickel	ug/L	75 - 125	251		12.8	J	250	95		P
Potassium	ug/L	75 - 125	41700		39000		5000	56		P
Selenium	ug/L	75 - 125	978		10.0	U	1000	98		P
Silver	ug/L	75 - 125	30.4		5.00	U	37.5	81		P
Sodium	ug/L	75 - 125	72800		76300		1500	-232		P
Thallium	ug/L	75 - 125	900		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	143		20.0	U	150	95		P
Zinc	ug/L	75 - 125	119		15.5	J	100	104		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Water **sample id:** Q1522-02 **client id:** TW-WTS-04MSD
Percent Solids for Sample: NA **Spiked ID:** Q1522-02MSD **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	1350		386		1000	96		P
Antimony	ug/L	75 - 125	423		25.0	U	400	106		P
Arsenic	ug/L	75 - 125	424		10.0	U	400	106		P
Barium	ug/L	75 - 125	115		26.6	J	100	88		P
Beryllium	ug/L	75 - 125	87.6		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	93.3		3.00	U	100	93		P
Calcium	ug/L	75 - 125	101000		103000		500	-410		P
Chromium	ug/L	75 - 125	205		5.00	U	200	102		P
Cobalt	ug/L	75 - 125	98.3		2.45	J	100	96		P
Copper	ug/L	75 - 125	149		10.0	U	150	99		P
Iron	ug/L	75 - 125	1570		120		1500	97		P
Lead	ug/L	75 - 125	454		6.92		500	89		P
Magnesium	ug/L	75 - 125	8190		7520		1000	67		P
Manganese	ug/L	75 - 125	158		54.9		100	103		P
Nickel	ug/L	75 - 125	250		12.8	J	250	95		P
Potassium	ug/L	75 - 125	45000		39000		5000	121		P
Selenium	ug/L	75 - 125	988		10.0	U	1000	99		P
Silver	ug/L	75 - 125	30.0		5.00	U	37.5	80		P
Sodium	ug/L	75 - 125	77600		76300		1500	87		P
Thallium	ug/L	75 - 125	901		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	141		20.0	U	150	94		P
Zinc	ug/L	75 - 125	120		15.5	J	100	104		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Solid **sample id:** Q1524-02 **client id:** VNJ-241MS
Percent Solids for Sample: 88.9 **Spiked ID:** Q1524-02MS **Percent Solids for Spike Sample:** 88.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.40		0.11		0.28	104		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1514
contract: PORT06 **lab code:** CHEM **case no.:** Q1514 **sas no.:** Q1514
matrix: Solid **sample id:** Q1524-02 **client id:** VNJ-241MSD
Percent Solids for Sample: 88.9 **Spiked ID:** Q1524-02MSD **Percent Solids for Spike Sample:** 88.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.39		0.11		0.27	101		CV