

metals
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MATRIX SPIKE SUMMARY

client: RU2 Engineering, LLC **level:** low **sdg no.:** Q1206
contract: RUTW01 **lab code:** CHEM **case no.:** Q1206 **sas no.:** Q1206
matrix: Solid **sample id:** Q1207-03 **client id:** JPP-2.1-012725MS
Percent Solids for Sample: 87.6 **Spiked ID:** Q1207-03MS **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5090		4740		100	352		P
Antimony	mg/Kg	75 - 125	16.4		0.22	J	41.0	39	N	P
Arsenic	mg/Kg	75 - 125	40.1		3.16		41.0	90		P
Barium	mg/Kg	75 - 125	66.4		49.6		10.2	165		P
Beryllium	mg/Kg	75 - 125	8.74		0.42		10.2	82		P
Cadmium	mg/Kg	75 - 125	10.0		0.20	J	10.2	96		P
Calcium	mg/Kg	75 - 125	8150		16700		51.2	-16707		P
Chromium	mg/Kg	75 - 125	32.7		12.4		20.5	99		P
Cobalt	mg/Kg	75 - 125	19.4		7.06		10.2	121		P
Copper	mg/Kg	75 - 125	93.0		56.0		15.4	240	N	P
Iron	mg/Kg	75 - 125	11900		11700		150	127		P
Lead	mg/Kg	75 - 125	274		168		51.2	208	N	P
Magnesium	mg/Kg	75 - 125	3040		8740		100	-5700		P
Manganese	mg/Kg	75 - 125	209		183		10.2	261		P
Nickel	mg/Kg	75 - 125	52.8		23.3		25.6	115		P
Potassium	mg/Kg	75 - 125	1300		886		510	81		P
Selenium	mg/Kg	75 - 125	83.9		0.99	U	100	84		P
Silver	mg/Kg	75 - 125	3.91		0.52		3.8	89		P
Sodium	mg/Kg	75 - 125	1870		1840		150	25		P
Thallium	mg/Kg	75 - 125	99.4		1.99	U	100	99		P
Vanadium	mg/Kg	75 - 125	29.0		18.7		15.4	67	N	P
Zinc	mg/Kg	75 - 125	348		171		10.2	1739		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: RU2 Engineering, LLC **level:** low **sdg no.:** Q1206
contract: RUTW01 **lab code:** CHEM **case no.:** Q1206 **sas no.:** Q1206
matrix: Solid **sample id:** Q1207-03 **client id:** JPP-2.1-012725MSD
Percent Solids for Sample: 87.6 **Spiked ID:** Q1207-03MSD **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4620		4740		92.8	-128		P
Antimony	mg/Kg	75 - 125	14.9		0.22	J	37.1	40	N	P
Arsenic	mg/Kg	75 - 125	36.9		3.16		37.1	91		P
Barium	mg/Kg	75 - 125	61.8		49.6		9.3	131		P
Beryllium	mg/Kg	75 - 125	7.88		0.42		9.3	80		P
Cadmium	mg/Kg	75 - 125	9.20		0.20	J	9.3	97		P
Calcium	mg/Kg	75 - 125	7440		16700		46.4	-19970		P
Chromium	mg/Kg	75 - 125	29.2		12.4		18.6	90		P
Cobalt	mg/Kg	75 - 125	17.8		7.06		9.3	116		P
Copper	mg/Kg	75 - 125	85.5		56.0		13.9	212		P
Iron	mg/Kg	75 - 125	11000		11700		140	-514		P
Lead	mg/Kg	75 - 125	252		168		46.4	182	N	P
Magnesium	mg/Kg	75 - 125	2770		8740		92.8	-6433		P
Manganese	mg/Kg	75 - 125	194		183		9.3	119		P
Nickel	mg/Kg	75 - 125	48.6		23.3		23.2	109		P
Potassium	mg/Kg	75 - 125	1210		886		460	69	N	P
Selenium	mg/Kg	75 - 125	76.9		0.99	U	92.8	83		P
Silver	mg/Kg	75 - 125	3.57		0.52		3.5	87		P
Sodium	mg/Kg	75 - 125	1730		1840		140	-78		P
Thallium	mg/Kg	75 - 125	90.6		1.99	U	92.8	98		P
Vanadium	mg/Kg	75 - 125	26.6		18.7		13.9	57	N	P
Zinc	mg/Kg	75 - 125	310		171		9.3	1495		P

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MATRIX SPIKE SUMMARY

client: RU2 Engineering, LLC **level:** low **sdg no.:** Q1206
contract: RUTW01 **lab code:** CHEM **case no.:** Q1206 **sas no.:** Q1206
matrix: Solid **sample id:** Q1207-15 **client id:** JPP-16.2-012725MS
Percent Solids for Sample: 88.8 **Spiked ID:** Q1207-15MS **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.54		0.28		0.28	90		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: RU2 Engineering, LLC **level:** low **sdg no.:** Q1206
contract: RUTW01 **lab code:** CHEM **case no.:** Q1206 **sas no.:** Q1206
matrix: Solid **sample id:** Q1207-15 **client id:** JPP-16.2-012725MSD
Percent Solids for Sample: 88.8 **Spiked ID:** Q1207-15MSD **Percent Solids for Spike Sample:** 88.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.55		0.28		0.27	98		CV