

metals
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MATRIX SPIKE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q1447
contract: GENV01 **lab code:** CHEM **case no.:** Q1447 **sas no.:** Q1447
matrix: Solid **sample id:** Q1447-01 **client id:** WC1MS
Percent Solids for Sample: 92.4 **Spiked ID:** Q1447-01MS **Percent Solids for Spike Sample:** 92.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4320		3200		97.1	1148		P
Antimony	mg/Kg	75 - 125	19.3		2.41	U	38.8	50	N	P
Arsenic	mg/Kg	75 - 125	37.5		1.34		38.8	93		P
Barium	mg/Kg	75 - 125	59.8		43.6		9.7	167		P
Beryllium	mg/Kg	75 - 125	8.23		0.35		9.7	81		P
Cadmium	mg/Kg	75 - 125	8.94		0.29	U	9.7	92		P
Calcium	mg/Kg	75 - 125	618		1070		48.5	-922		P
Chromium	mg/Kg	75 - 125	26.0		7.05		19.4	97		P
Cobalt	mg/Kg	75 - 125	14.9		3.94		9.7	112		P
Copper	mg/Kg	75 - 125	36.7		20.3		14.6	113		P
Iron	mg/Kg	75 - 125	12800		10100		150	1807		P
Lead	mg/Kg	75 - 125	113		64.0		48.5	102		P
Magnesium	mg/Kg	75 - 125	1750		1370		97.1	387		P
Manganese	mg/Kg	75 - 125	390		256		9.7	1382		P
Mercury	mg/Kg	80 - 120	0.25		0.014	U	0.27	91		CV
Nickel	mg/Kg	75 - 125	36.0		7.49		24.3	117		P
Potassium	mg/Kg	75 - 125	939		387		490	113		P
Selenium	mg/Kg	75 - 125	79.2		0.96	U	97.1	82		P
Silver	mg/Kg	75 - 125	3.57		0.48	U	3.6	99		P
Sodium	mg/Kg	75 - 125	190		48.4	J	150	95		P
Thallium	mg/Kg	75 - 125	90.6		0.53	J	97.1	93		P
Vanadium	mg/Kg	75 - 125	21.8		9.00		14.6	87		P
Zinc	mg/Kg	75 - 125	64.6		30.9		9.7	347	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: G Environmental **level:** low **sdg no.:** Q1447
contract: GENV01 **lab code:** CHEM **case no.:** Q1447 **sas no.:** Q1447
matrix: Solid **sample id:** Q1447-01 **client id:** WC1MSD
Percent Solids for Sample: 92.4 **Spiked ID:** Q1447-01MSD **Percent Solids for Spike Sample:** 92.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4090		3200		92.1	962		P
Antimony	mg/Kg	75 - 125	17.5		2.41	U	36.8	48	N	P
Arsenic	mg/Kg	75 - 125	34.6		1.34		36.8	90		P
Barium	mg/Kg	75 - 125	56.3		43.6		9.2	138		P
Beryllium	mg/Kg	75 - 125	7.85		0.35		9.2	82		P
Cadmium	mg/Kg	75 - 125	8.78		0.29	U	9.2	95		P
Calcium	mg/Kg	75 - 125	1020		1070		46.1	-96		P
Chromium	mg/Kg	75 - 125	24.6		7.05		18.4	95		P
Cobalt	mg/Kg	75 - 125	14.0		3.94		9.2	109		P
Copper	mg/Kg	75 - 125	34.8		20.3		13.8	106		P
Iron	mg/Kg	75 - 125	10300		10100		140	150		P
Lead	mg/Kg	75 - 125	87.5		64.0		46.1	51	N	P
Magnesium	mg/Kg	75 - 125	1660		1370		92.1	310		P
Manganese	mg/Kg	75 - 125	315		256		9.2	640		P
Mercury	mg/Kg	80 - 120	0.25		0.014	U	0.27	93		CV
Nickel	mg/Kg	75 - 125	32.2		7.49		23.0	108		P
Potassium	mg/Kg	75 - 125	879		387		460	107		P
Selenium	mg/Kg	75 - 125	73.1		0.96	U	92.1	79		P
Silver	mg/Kg	75 - 125	3.05		0.48	U	3.5	87		P
Sodium	mg/Kg	75 - 125	178		48.4	J	140	93		P
Thallium	mg/Kg	75 - 125	86.2		0.53	J	92.1	93		P
Vanadium	mg/Kg	75 - 125	20.7		9.00		13.8	85		P
Zinc	mg/Kg	75 - 125	38.1		30.9		9.2	78		P