

metals
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MATRIX SPIKE SUMMARY

client: Homeowner **level:** low **sdg no.:** Q3603
contract: HOME01 **lab code:** ACE
matrix: Water **sample id:** Q3603-01 **client id:** SHORT-HILLS-DWMS
Percent Solids for Sample: NA **Spiked ID:** Q3603-01MS **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	1000		24.3	J	1000	98		P
Antimony	ug/L	75 - 125	401		25.0	U	400	100		P
Arsenic	ug/L	75 - 125	415		10.0	U	400	104		P
Barium	ug/L	75 - 125	98.5		50.0	U	100	98		P
Beryllium	ug/L	75 - 125	103		3.00	U	100	103		P
Cadmium	ug/L	75 - 125	94.9		3.00	U	100	95		P
Calcium	ug/L	75 - 125	22000		20300		500	329		P
Chromium	ug/L	75 - 125	217		9.08		200	104		P
Cobalt	ug/L	75 - 125	97.0		15.0	U	100	97		P
Copper	ug/L	75 - 125	147		10.0	U	150	98		P
Iron	ug/L	75 - 125	1450		26.6	J	1500	95		P
Lead	ug/L	75 - 125	461		6.00	U	500	92		P
Magnesium	ug/L	75 - 125	6430		5160		1000	127		P
Manganese	ug/L	75 - 125	92.6		10.4		100	82		P
Mercury	ug/L	75 - 125	3.63		0.20	U	4.0	91		CV
Nickel	ug/L	75 - 125	243		2.59	J	250	96		P
Potassium	ug/L	75 - 125	6530		1530		5000	100		P
Selenium	ug/L	75 - 125	950		10.0	U	1000	95		P
Silver	ug/L	75 - 125	34.9		5.00	U	37.5	93		P
Sodium	ug/L	75 - 125	47800		48000		1500	-9		P
Thallium	ug/L	75 - 125	1040		20.0	U	1000	104		P
Vanadium	ug/L	75 - 125	148		20.0	U	150	99		P
Zinc	ug/L	75 - 125	105		20.0	U	100	105		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Homeowner **level:** low **sdg no.:** Q3603
contract: HOME01 **lab code:** ACE
matrix: Water **sample id:** Q3603-01 **client id:** SHORT-HILLS-DWMSD
Percent Solids for Sample: NA **Spiked ID:** Q3603-01MSD **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	1020		24.3	J	1000	100		P
Antimony	ug/L	75 - 125	418		25.0	U	400	104		P
Arsenic	ug/L	75 - 125	434		10.0	U	400	108		P
Barium	ug/L	75 - 125	101		50.0	U	100	101		P
Beryllium	ug/L	75 - 125	100		3.00	U	100	100		P
Cadmium	ug/L	75 - 125	98.7		3.00	U	100	99		P
Calcium	ug/L	75 - 125	22000		20300		500	340		P
Chromium	ug/L	75 - 125	232		9.08		200	111		P
Cobalt	ug/L	75 - 125	101		15.0	U	100	101		P
Copper	ug/L	75 - 125	152		10.0	U	150	101		P
Iron	ug/L	75 - 125	1620		26.6	J	1500	106		P
Lead	ug/L	75 - 125	480		6.00	U	500	96		P
Magnesium	ug/L	75 - 125	6490		5160		1000	133		P
Manganese	ug/L	75 - 125	94.6		10.4		100	84		P
Mercury	ug/L	75 - 125	4.21		0.20	U	4.0	105		CV
Nickel	ug/L	75 - 125	253		2.59	J	250	100		P
Potassium	ug/L	75 - 125	7100		1530		5000	111		P
Selenium	ug/L	75 - 125	995		10.0	U	1000	100		P
Silver	ug/L	75 - 125	36.9		5.00	U	37.5	98		P
Sodium	ug/L	75 - 125	50800		48000		1500	187		P
Thallium	ug/L	75 - 125	1060		20.0	U	1000	106		P
Vanadium	ug/L	75 - 125	150		20.0	U	150	100		P
Zinc	ug/L	75 - 125	111		20.0	U	100	111		P