

metals
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MATRIX SPIKE SUMMARY

client: <u>R3M Engineering, Inc.</u>	level: <u>low</u>	sdg no.: <u>P5093</u>
contract: <u>RTHR01</u>	lab code: <u>CHEM</u>	case no.: <u>P5093</u> sas no.: <u>P5093</u>
matrix: <u>Water</u>	sample id: <u>P5074-02</u>	client id: <u>COMPMS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P5074-02MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	3.01		0.30		4.0	68	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>R3M Engineering, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P5093</u>	
contract:	<u>RTHR01</u>	lab code:	<u>CHEM</u>	case no.:	<u>P5093</u>	sas no.: <u>P5093</u>
matrix:	<u>Water</u>	sample id:	<u>P5074-02</u>	client id:	<u>COMPMSD</u>	
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>P5074-02MSD</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	3.00		0.30		4.0	68	N	CV

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MATRIX SPIKE SUMMARY

client: R3M Engineering, Inc. **level:** low **sdg no.:** P5093
contract: RTHR01 **lab code:** CHEM **case no.:** P5093 **sas no.:** P5093
matrix: Water **sample id:** P5093-02 **client id:** LL-001-FB-12-4-24MS
Percent Solids for Sample: NA **Spiked ID:** P5093-02MS **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	905		50.0	U	1000	90		P
Antimony	ug/L	75 - 125	352		25.0	U	400	88		P
Arsenic	ug/L	75 - 125	331		10.0	U	400	83		P
Barium	ug/L	75 - 125	85.8		50.0	U	100	86		P
Beryllium	ug/L	75 - 125	82.4		3.00	U	100	82		P
Cadmium	ug/L	75 - 125	78.8		3.00	U	100	79		P
Calcium	ug/L	75 - 125	464	J	1000	U	500	93		P
Chromium	ug/L	75 - 125	180		5.00	U	200	90		P
Cobalt	ug/L	75 - 125	83.0		15.0	U	100	83		P
Copper	ug/L	75 - 125	134		10.0	U	150	89		P
Iron	ug/L	75 - 125	1290		50.0	U	1500	86		P
Lead	ug/L	75 - 125	392		6.00	U	500	78		P
Magnesium	ug/L	75 - 125	847	J	1000	U	1000	85		P
Manganese	ug/L	75 - 125	88.4		1.80	J	100	87		P
Nickel	ug/L	75 - 125	207		20.0	U	250	83		P
Potassium	ug/L	75 - 125	4270		1000	U	5000	85		P
Selenium	ug/L	75 - 125	808		10.0	U	1000	81		P
Silver	ug/L	75 - 125	31.6		5.00	U	37.5	84		P
Sodium	ug/L	75 - 125	1190		1000	U	1500	79		P
Thallium	ug/L	75 - 125	813		20.0	U	1000	81		P
Vanadium	ug/L	75 - 125	134		20.0	U	150	89		P
Zinc	ug/L	75 - 125	91.4		20.0	U	100	91		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: R3M Engineering, Inc. **level:** low **sdg no.:** P5093
contract: RTHR01 **lab code:** CHEM **case no.:** P5093 **sas no.:** P5093
matrix: Water **sample id:** P5093-02 **client id:** LL-001-FB-12-4-24MSD
Percent Solids for Sample: NA **Spiked ID:** P5093-02MSD **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	890		50.0	U	1000	89		P
Antimony	ug/L	75 - 125	346		25.0	U	400	86		P
Arsenic	ug/L	75 - 125	325		10.0	U	400	81		P
Barium	ug/L	75 - 125	85.1		50.0	U	100	85		P
Beryllium	ug/L	75 - 125	83.0		3.00	U	100	83		P
Cadmium	ug/L	75 - 125	78.4		3.00	U	100	78		P
Calcium	ug/L	75 - 125	459	J	1000	U	500	92		P
Chromium	ug/L	75 - 125	180		5.00	U	200	90		P
Cobalt	ug/L	75 - 125	82.5		15.0	U	100	82		P
Copper	ug/L	75 - 125	133		10.0	U	150	89		P
Iron	ug/L	75 - 125	1270		50.0	U	1500	85		P
Lead	ug/L	75 - 125	391		6.00	U	500	78		P
Magnesium	ug/L	75 - 125	851	J	1000	U	1000	85		P
Manganese	ug/L	75 - 125	87.5		1.80	J	100	86		P
Nickel	ug/L	75 - 125	205		20.0	U	250	82		P
Potassium	ug/L	75 - 125	4150		1000	U	5000	83		P
Selenium	ug/L	75 - 125	793		10.0	U	1000	79		P
Silver	ug/L	75 - 125	31.5		5.00	U	37.5	84		P
Sodium	ug/L	75 - 125	1160		1000	U	1500	77		P
Thallium	ug/L	75 - 125	809		20.0	U	1000	81		P
Vanadium	ug/L	75 - 125	134		20.0	U	150	89		P
Zinc	ug/L	75 - 125	90.3		20.0	U	100	90		P