

metals
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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3657
contract: JACO05 **lab code:** CHEM **case no.:** P3657 **sas no.:** P3657
matrix: Water **sample id:** P3596-02 **client id:** 918-J-WS-081324-FDMS
Percent Solids for Sample: NA **Spiked ID:** P3596-02MS **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	10000		88.2		10000	99		P
Antimony	ug/L	75 - 125	511		0.23	J	500	102		P
Arsenic	ug/L	75 - 125	530		1.74		500	106		P
Barium	ug/L	75 - 125	2510		57.6		2500	98		P
Beryllium	ug/L	75 - 125	556		1.00	U	500	111		P
Cadmium	ug/L	75 - 125	545		1.00	U	500	109		P
Calcium	ug/L	75 - 125	66000		19100		50000	94		P
Chromium	ug/L	75 - 125	510		1.21	J	500	102		P
Cobalt	ug/L	75 - 125	533		0.74	J	500	106		P
Copper	ug/L	75 - 125	5050		3.59		5000	101		P
Iron	ug/L	75 - 125	30200		3340		25000	107		P
Lead	ug/L	75 - 125	2550		1.75		2500	102		P
Magnesium	ug/L	75 - 125	53600		3440		50000	100		P
Manganese	ug/L	75 - 125	5510		511		5000	100		P
Nickel	ug/L	75 - 125	517		1.28		500	103		P
Potassium	ug/L	75 - 125	27600		2770		25000	100		P
Selenium	ug/L	75 - 125	525		5.00	U	500	105		P
Silver	ug/L	75 - 125	336		1.00	U	500	67	N	P
Sodium	ug/L	75 - 125	109000		68300		50000	82		P
Thallium	ug/L	75 - 125	522		1.00	U	500	104		P
Vanadium	ug/L	75 - 125	527		0.98	J	500	105		P
Zinc	ug/L	75 - 125	5140		36.8		5000	102		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3657
contract: JACO05 **lab code:** CHEM **case no.:** P3657 **sas no.:** P3657
matrix: Water **sample id:** P3596-02 **client id:** 918-J-WS-081324-FDMSD
Percent Solids for Sample: NA **Spiked ID:** P3596-02MSD **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	9970		88.2		10000	99		P
Antimony	ug/L	75 - 125	498		0.23	J	500	100		P
Arsenic	ug/L	75 - 125	529		1.74		500	105		P
Barium	ug/L	75 - 125	2440		57.6		2500	95		P
Beryllium	ug/L	75 - 125	533		1.00	U	500	107		P
Cadmium	ug/L	75 - 125	528		1.00	U	500	106		P
Calcium	ug/L	75 - 125	67000		19100		50000	96		P
Chromium	ug/L	75 - 125	503		1.21	J	500	100		P
Cobalt	ug/L	75 - 125	530		0.74	J	500	106		P
Copper	ug/L	75 - 125	5080		3.59		5000	101		P
Iron	ug/L	75 - 125	30100		3340		25000	107		P
Lead	ug/L	75 - 125	2490		1.75		2500	99		P
Magnesium	ug/L	75 - 125	52300		3440		50000	98		P
Manganese	ug/L	75 - 125	5480		511		5000	99		P
Nickel	ug/L	75 - 125	513		1.28		500	102		P
Potassium	ug/L	75 - 125	27000		2770		25000	97		P
Selenium	ug/L	75 - 125	507		5.00	U	500	101		P
Silver	ug/L	75 - 125	295		1.00	U	500	59	N	P
Sodium	ug/L	75 - 125	112000		68300		50000	87		P
Thallium	ug/L	75 - 125	509		1.00	U	500	102		P
Vanadium	ug/L	75 - 125	522		0.98	J	500	104		P
Zinc	ug/L	75 - 125	5050		36.8		5000	100		P

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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3657
contract: JACO05 **lab code:** CHEM **case no.:** P3657 **sas no.:** P3657
matrix: Water **sample id:** P3669-03 **client id:** 1027MS
Percent Solids for Sample: NA **Spiked ID:** P3669-03MS **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	2.95		0.24		4.0	68	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>JACOBS Engineering Group, Inc.</u>	level: <u>low</u>	sdg no.: <u>P3657</u>
contract: <u>JACO05</u>	lab code: <u>CHEM</u>	case no.: <u>P3657</u> sas no.: <u>P3657</u>
matrix: <u>Water</u>	sample id: <u>P3669-03</u>	client id: <u>1027MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>P3669-03MSD</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	75 - 125	2.78		0.24		4.0	64	N	CV