

metals
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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2008
contract: JACO05 **lab code:** CHEM **case no.:** Q2008 **sas no.:** Q2008
matrix: Water **sample id:** Q1985-01 **client id:** RW8-BW-20250507MS
Percent Solids for Sample: NA **Spiked ID:** Q1985-01MS **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	86 - 115	967		24.0	J	1000	94		P
Antimony	ug/L	88 - 113	384		25.0	U	400	96		P
Arsenic	ug/L	87 - 113	394		10.0	U	400	98		P
Barium	ug/L	88 - 113	95.0		50.0	U	100	95		P
Beryllium	ug/L	89 - 112	90.9		3.00	U	100	91		P
Cadmium	ug/L	88 - 113	99.0		3.00	U	100	99		P
Calcium	ug/L	87 - 113	1880		1380		500	100		P
Chromium	ug/L	90 - 113	199		2.48	J	200	98		P
Cobalt	ug/L	89 - 114	98.0		15.0	U	100	98		P
Copper	ug/L	86 - 114	140		10.0	U	150	93		P
Iron	ug/L	87 - 115	2170		678		1500	99		P
Lead	ug/L	86 - 113	471		6.00	U	500	94		P
Magnesium	ug/L	85 - 113	2250		1330		1000	92		P
Manganese	ug/L	90 - 114	170		52.0		100	118	N	P
Nickel	ug/L	88 - 113	241		20.0	U	250	96		P
Potassium	ug/L	86 - 114	351000		333000		5000	359		P
Selenium	ug/L	83 - 114	916		10.0	U	1000	92		P
Silver	ug/L	84 - 115	29.9		5.00	U	37.5	80	N	P
Sodium	ug/L	87 - 115	48000		44800		1500	217		P
Thallium	ug/L	85 - 114	905		20.0	U	1000	90		P
Vanadium	ug/L	90 - 111	141		20.0	U	150	94		P
Zinc	ug/L	87 - 115	101		20.0	U	100	101		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2008
contract: JACO05 **lab code:** CHEM **case no.:** Q2008 **sas no.:** Q2008
matrix: Water **sample id:** Q1985-01 **client id:** RW8-BW-20250507MSD
Percent Solids for Sample: NA **Spiked ID:** Q1985-01MSD **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	86 - 115	962		24.0	J	1000	94		P
Antimony	ug/L	88 - 113	381		25.0	U	400	95		P
Arsenic	ug/L	87 - 113	391		10.0	U	400	98		P
Barium	ug/L	88 - 113	93.2		50.0	U	100	93		P
Beryllium	ug/L	89 - 112	92.2		3.00	U	100	92		P
Cadmium	ug/L	88 - 113	98.3		3.00	U	100	98		P
Calcium	ug/L	87 - 113	1840		1380		500	92		P
Chromium	ug/L	90 - 113	198		2.48	J	200	98		P
Cobalt	ug/L	89 - 114	97.2		15.0	U	100	97		P
Copper	ug/L	86 - 114	138		10.0	U	150	92		P
Iron	ug/L	87 - 115	2140		678		1500	97		P
Lead	ug/L	86 - 113	469		6.00	U	500	94		P
Magnesium	ug/L	85 - 113	2220		1330		1000	89		P
Manganese	ug/L	90 - 114	113		52.0		100	61	N	P
Nickel	ug/L	88 - 113	238		20.0	U	250	95		P
Potassium	ug/L	86 - 114	343000		333000		5000	207		P
Selenium	ug/L	83 - 114	915		10.0	U	1000	92		P
Silver	ug/L	84 - 115	29.3		5.00	U	37.5	78	N	P
Sodium	ug/L	87 - 115	46900		44800		1500	141		P
Thallium	ug/L	85 - 114	895		20.0	U	1000	90		P
Vanadium	ug/L	90 - 111	139		20.0	U	150	93		P
Zinc	ug/L	87 - 115	100		20.0	U	100	100		P

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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2008
contract: JACO05 **lab code:** CHEM **case no.:** Q2008 **sas no.:** Q2008
matrix: Water **sample id:** Q2008-01 **client id:** IDW-AQ-DRUM-633-05092025MS
Percent Solids for Sample: NA **Spiked ID:** Q2008-01MS **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	82 - 119	3.56		0.082	J	4.0	87		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2008</u>		
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2008</u>	sas no.:	<u>Q2008</u>
matrix:	<u>Water</u>	sample id:	<u>Q2008-01</u>	client id:	<u>IDW-AQ-DRUM-633-05092025MSD</u>		
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2008-01MSD</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	3.25		0.082	J	4.0	79	N	CV