

metals
- 5a -
MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3671
contract: JACO05 **lab code:** CHEM **case no.:** P3671 **sas no.:** P3671
matrix: Solid **sample id:** P3671-01 **client id:** S-904-J-SO-0-0.5-081924MS
Percent Solids for Sample: 71.3 **Spiked ID:** P3671-01MS **Percent Solids for Spike Sample:** 71.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.76		0.51		0.34	71	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>P3671</u>		
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>P3671</u>	sas no.:	<u>P3671</u>
matrix:	<u>Solid</u>	sample id:	<u>P3671-01</u>	client id:	<u>S-904-J-SO-0-0.5-081924MSD</u>		
Percent Solids for Sample:	<u>71.3</u>	Spiked ID:	<u>P3671-01MSD</u>	Percent Solids for Spike Sample:	<u>71.3</u>		

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.74		0.51		0.36	63	N	CV

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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3671
contract: JACO05 **lab code:** CHEM **case no.:** P3671 **sas no.:** P3671
matrix: Solid **sample id:** P3671-14 **client id:** S-912-J-SO-0.5-1-081924MS
Percent Solids for Sample: 51.5 **Spiked ID:** P3671-14MS **Percent Solids for Spike Sample:** 51.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5560		4900		1400	48	N	P
Antimony	mg/Kg	75 - 125	73.1		0.26	J	69.3	105		P
Arsenic	mg/Kg	75 - 125	70.8		3.60		69.3	97		P
Barium	mg/Kg	75 - 125	405		77.7		350	95		P
Beryllium	mg/Kg	75 - 125	79.9		0.42		69.3	115		P
Cadmium	mg/Kg	75 - 125	74.5		0.26		69.3	107		P
Calcium	mg/Kg	75 - 125	9820		3140		6900	96		P
Chromium	mg/Kg	75 - 125	79.9		11.5		69.3	99		P
Cobalt	mg/Kg	75 - 125	75.3		0.68		69.3	108		P
Copper	mg/Kg	75 - 125	728		20.7		690	102		P
Iron	mg/Kg	75 - 125	6580		3320		3500	94		P
Lead	mg/Kg	75 - 125	396		52.1		350	99		P
Magnesium	mg/Kg	75 - 125	7200		557		6900	96		P
Manganese	mg/Kg	75 - 125	1350		766		690	84		P
Nickel	mg/Kg	75 - 125	74.7		4.59		69.3	101		P
Potassium	mg/Kg	75 - 125	3660		250		3500	98		P
Selenium	mg/Kg	75 - 125	70.0		0.99		69.3	100		P
Silver	mg/Kg	75 - 125	47.4		0.13	J	69.3	68	N	P
Sodium	mg/Kg	75 - 125	7530		1010		6900	94		P
Thallium	mg/Kg	75 - 125	73.3		0.060	J	69.3	106		P
Vanadium	mg/Kg	75 - 125	82.8		9.59		69.3	106		P
Zinc	mg/Kg	75 - 125	727		22.8		690	102		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3671
contract: JACO05 **lab code:** CHEM **case no.:** P3671 **sas no.:** P3671
matrix: Solid **sample id:** P3671-14 **client id:** S-912-J-SO-0.5-1-081924MSD
Percent Solids for Sample: 51.5 **Spiked ID:** P3671-14MSD **Percent Solids for Spike Sample:** 51.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	5430		4900		1400	39	N	P
Antimony	mg/Kg	75 - 125	71.1		0.26	J	68.9	103		P
Arsenic	mg/Kg	75 - 125	71.2		3.60		68.9	98		P
Barium	mg/Kg	75 - 125	399		77.7		340	93		P
Beryllium	mg/Kg	75 - 125	77.4		0.42		68.9	112		P
Cadmium	mg/Kg	75 - 125	73.0		0.26		68.9	106		P
Calcium	mg/Kg	75 - 125	9680		3140		6900	95		P
Chromium	mg/Kg	75 - 125	79.5		11.5		68.9	99		P
Cobalt	mg/Kg	75 - 125	76.0		0.68		68.9	109		P
Copper	mg/Kg	75 - 125	721		20.7		690	102		P
Iron	mg/Kg	75 - 125	6700		3320		3400	98		P
Lead	mg/Kg	75 - 125	394		52.1		340	99		P
Magnesium	mg/Kg	75 - 125	7160		557		6900	96		P
Manganese	mg/Kg	75 - 125	1310		766		690	79		P
Nickel	mg/Kg	75 - 125	74.8		4.59		68.9	102		P
Potassium	mg/Kg	75 - 125	3590		250		3400	97		P
Selenium	mg/Kg	75 - 125	68.3		0.99		68.9	98		P
Silver	mg/Kg	75 - 125	41.8		0.13	J	68.9	61	N	P
Sodium	mg/Kg	75 - 125	7580		1010		6900	95		P
Thallium	mg/Kg	75 - 125	73.2		0.060	J	68.9	106		P
Vanadium	mg/Kg	75 - 125	82.5		9.59		68.9	106		P
Zinc	mg/Kg	75 - 125	720		22.8		690	101		P