

**Laboratory Analytical Report**

Customer Name: EOG - DJ Basin
Project ID: EOG-Colorado CWA

Order ID: 16101010
Report Date: 10/17/2016

Lab Sample ID: 16101010-03 Date: 10/5/2016 9:14 AM
Customer Sample ID: JUBILEE 119-2109H
Matrix: Aqueous Received: 10/10/2016 2:15 PM

Notes:

Analyses	Result	Units	RL	Qual.	Method	Analysis Date/Time	Analyst
Alkalinity, Bicarbonate (HCO ₃)	692.0	mg/L	2		SM 2320 B	10/13/2016 2:00:00 PM	JS
Alkalinity, Carbonate (CO ₃)	ND	mg/L	2		SM 2320 B	10/13/2016 2:00:00 PM	JS
Alkalinity, Hydroxide (OH)	ND	mg/L	2		SM 2320 B	10/13/2016 2:00:00 PM	JS
Total Alkalinity	692.0	mg/L	2		SM 2320 B	10/13/2016 2:00:00 PM	JS
Barium	25.1	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Calcium	310	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Calcium (meq/L)	15.7	meq/L	0		EPA 200.7	10/13/2016 2:57:35 PM	RG
Anions	444.9	meq/L	-50		Calculation	10/17/2016 9:25:00 AM	RG
Cation/Anion Balance	9.0	%	-50		Calculation	10/17/2016 9:25:00 AM	RG
Cations	533	meq/L	-50		Calculation	10/17/2016 9:25:00 AM	RG
Chloride	15350	mg/L	1000		EPA 300.0	10/13/2016 3:23:00 PM	TMC
Field pH - Strip	7.5	s.u.			Strip	10/13/2016 2:00:00 PM	JS
Ionic Strength	0.5	mol/L	0		Calculation	10/17/2016 9:25:00 AM	RG
Iron	ND	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Magnesium	36	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Magnesium (meq/L)	2.6	meq/L	0		EPA 200.7	10/13/2016 2:57:35 PM	RG
Manganese	ND	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Phosphorus	ND	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Potassium	71	mg/L	5		EPA 200.7	10/13/2016 2:57:35 PM	RG
Potassium (meq/L)	1.4	meq/L	0		EPA 200.7	10/13/2016 2:57:35 PM	RG
Resistivity, 25C	0.22	ohms m	0.01		SM 2510 B	10/10/2016 5:00:00 PM	JS
Sodium	12000	mg/L	500		EPA 200.7	10/13/2016 1:48:22 PM	RG
Sodium (meq/L)	513	meq/L	0		EPA 200.7	10/13/2016 1:48:22 PM	RG
Specific Gravity	1.020	g/cc	0.001		ASTM D 1429-03	10/13/2016 2:40:00 PM	JS

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Definitions:

ND-Not Detected at the reporting limit

S-Spike Recovery outside accepted recovery limits

D-Diluted out of recovery limits

RL-Analyte Reporting Limit

J-Analyte detected below quantitation limits

L-Analyzed by a contract laboratory

H-Holding times for preparation or analysis exceeded

M-Matrix Effect

Documentation will be kept for five (5) years.



Gas Measurement • Emissions Testing

Laboratory • Sample Collection

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Order ID: 16101010

Project ID: EOG-Colorado CWA

Report Date: 10/17/2016

Strontium	50.1	mg/L	5	EPA 200.7	10/13/2016 2:57:35 PM	RG
Sulfate	24.8	mg/L	2	EPA 375.4	10/13/2016 10:30:00 AM	TMC
Total Dissolved Solids (TDS)	28280	mg/L	5	Calculation	10/17/2016 9:25:00 AM	RG

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