



OEC Sample ID: 1100XXX-01

GEOCHEM SUMMARY

Client: XXX Oil & Energy
 Project: XXX Plant, Santa Maria

Client Sample ID: XXX Water
 Project ID: XXX Evaluation, Santa Maria, CA

Anions	mg/L	meq/L	Method	RL	Calculations	Results	Units	Method	RL
Bicarbonate, HCO ₃ ⁻¹	1100	18	SM 2320B	61	Alkalinity, as HCO ₃ ⁻¹ (Total)	1100	mg/L	SM 2320B	100
Bromide, Br ⁻¹	57	0.71	EPA 300.0	2.0	Hardness, as CaCO ₃ (Calc.)	ND	mg/L	SM 2340B	10
Carbonate, CO ₃ ⁻¹	ND	0	SM 2320B	6					
Chloride, Cl ⁻¹	12000	340	EPA 300.0	400	Salinity, as NaCl	22000	mg/L	Calculation	1
Fluoride, F ⁻¹	ND	0	EPA 300.0	2.0	Calcium Carbonate				
Hydroxide, OH ⁻¹	ND	0	SM 2320B	2	Stability Index (Langelier)	-0.27		SM 2330B	
Sulfate, SO ₄ ⁻²	6.5	0.14	EPA 300.0	2.0	Stability Index (Stiff & Davis)	-2.41		ASTM D4582	
Nitrite, NO ₂ ⁻¹	ND	0	EPA 300.0	6.6	Physical Data				
Nitrate, NO ₃ ⁻¹	ND	0	EPA 300.0	9	Conductivity (Measured)	32000	umhos/cm	2510 B	20
Cations					Resistivity	31	Ohm-cm	Calculation	2.0
Barium, Ba ⁺²	ND	0	EPA 6010B	0.25	Specific Gravity (xx/60°F)		g/cc		
Boron, B ⁺³	22	6.1	EPA 6010B	0.25	Ionic strength	0.35	mol/L	Calculation	
Calcium, Ca ⁺²	15	0.75	EPA 6010B	1.0	pH	7.2	pH Units	9040B	0.10
Iron, Fe ⁺³	1.5	0.081	EPA 6010B	0.12	Temperature		°C	SM 2550B	
Magnesium, Mg ⁺²	0.74	0.061	EPA 6010B	0.12	Total Diss. Solids (TDS Calc)	20000	mg/L	Calculation	10
Manganese, Mn ⁺²	ND	0	EPA 6010B	0.025	Total Diss Solids @180°C	19000	mg/L	2540C	200
Potassium, K ⁺¹	72	1.8	EPA 6010B	0.050	Quality Control				
Sodium, Na ⁺¹	7200	310	EPA 6010B	100		meq/L	Units	Acceptable	
Strontium, Sr ⁺²	ND	0	EPA 6010B	0.025		SUM		% Diff.	
Zinc, Zn ⁺²	ND	0	EPA 6010B	0.50	Anion-Cation Balance=	9.9	%	0-5%	
Other									
Lithium, Li	0.62	0.089	EPA 6010B	0.12					
Silica, as SiO ₂	44	1.50	EPA 6010B	0.54					
Sodium, Na ⁺¹	8500	370	Calculation	1					

NA* = Not Analyzed

ND = Not Detected at or above the Reporting Limit (RL)