

# Certificate of Analysis

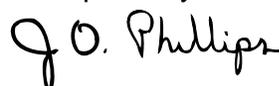
September 12, 2018

**Laboratory No.** 18-09-13-36  
**Company** LOS RAMONES  
**Address** LOS RAMONES, NL  
**Engineer** RAUL MORALES  
**Sample Date** September 8, 2018  
**Sample Class** Waters

Analysis	MTA 1	MTA 2	MTA 3	MTA 4
pH	7.99	7.83	7.60	7.55
Conductivity, $\mu\text{mho}$	2277	2293	3119	1842
"M"-Alkalinity, as $\text{CaCO}_3$ , mg/L	488	429	461	323
Calcium Hardness, as $\text{CaCO}_3$ , mg/L	35	113	115	398
Magnesium Hardness, as $\text{CaCO}_3$ , mg/L	19	90	60	225
Iron, as Fe, mg/L	0.06	0.02	0.13	<0.01
Copper, as Cu, mg/L	<0.01	<0.01	<0.01	<0.01
Zinc, as Zn, mg/L	<0.01	<0.01	<0.01	0.02
Sodium, as Na, mg/L	524	444	632	151
Potassium, as K, mg/L	5.1	6.4	8.3	7.6
Chloride, as Cl, mg/L	347	340	698	160
Sulfate, as $\text{SO}_4$ , mg/L	170	210	38	311
Nitrate, as $\text{NO}_3$ , mg/L	<0.10	15	<0.50	<0.10
Ortho-Phosphate, as $\text{PO}_4$ , mg/L	<0.50	<0.50	<2.5	<0.50
Silica, as $\text{SiO}_2$ , mg/L	16	21	18	32
Nitrogen, Ammonia Total as N, mg/L	2.8	1.3	1.4	1.0
Aluminum, as Al, mg/L	<0.05	<0.05	<0.05	<0.05
Boron, as B, mg/L	1.2	0.96	2.9	0.44
Phosphorous, as P, $\mu\text{g/L}$	<10.0	<10.0	<10.0	<10.0
Barium, as Ba, mg/L	0.17	0.19	0.68	0.09
Cadmium, as Cd, mg/L	<0.01	<0.01	<0.01	<0.01
Chromium, as Cr, mg/L	<0.01	<0.01	<0.01	<0.01
Lithium, as Li, mg/L	1.9	1.4	2.7	0.14
Manganese, as Mn, mg/L	<0.01	<0.01	0.01	<0.01

**Comments** "+" – These results will follow as soon as complete.

Respectfully Submitted,



Joel Phillips  
 Manager Applied Technology Analytical Lab  
 ChemTreat, Inc.

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Nickel, as Ni, mg/L	<0.01	<0.01	<0.01	<0.01
Lead, as Pb, mg/L	<0.01	<0.01	<0.01	<0.01
Strontium, as Sr, mg/L	2.4	4.1	+	4.0
Total Cyanide, as CN, mg/L	<0.005	<0.005	<0.005	<0.005
Color, as PCU	12	11	23	7.0
Hydrogen Sulfide, as H <sub>2</sub> S, ug/L	1314	108	110	115
Nitrite, as NO <sub>2</sub> , mg/L	<0.50	1.3	<2.5	<0.50
Total Organic Carbon, mg/L	3.8	2.9	2.9	1.9
Turbidity, as NTU	2.07	0.87	1.96	1.48
COD, mg/L	17	27	10	997
Mercury, as Hg, ug/L	<0.2	<0.2	<0.2	<0.2