



STATE WATER RESOURCES CONTROL BOARD
REGIONAL WATER QUALITY CONTROL BOARDS

CALIFORNIA STATE



ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Alpha Analytical Laboratories, Inc.

208 Mason Street

Ukiah, CA 95482

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site inspection,
proficiency testing studies, and payment of applicable fees.

This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1551**

Expiration Date: **6/30/2019**

Effective Date: **7/1/2017**

A handwritten signature in black ink, appearing to read "Christine Sotelo".

Sacramento, California
subject to forfeiture or revocation

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

July 11, 2018

Jim Shoberg
Alpha Analytical Laboratories, Inc.
208 Mason Street
Ukiah, CA 95482

Dear Jim Shoberg:

Certificate No. 1551

This notice advises that the laboratory named above has been certified as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, *et seq.*

The Fields of Testing for which this laboratory has been certified are indicated on the enclosed "Fields of Testing" list. The certificate shall remain in effect until **June 30, 2019** unless it is revoked. This certificate is subject to an annual fee as determined by HSC 100860.1(a).

The application for renewal of this certificate must be received 90 days prior to the expiration date to remain in force according to HSC 100845(a). You must submit annual Proficiency Testing results before the due date of your annual fee to remain in compliance.

Any change in laboratory location or alteration to laboratory structure that could adversely affect quality of analysis in certified methods require notification prior to the change. Notification is also required for a transfer in ownership or appointment of new laboratory director within 30 days of the change (HSC, Section 100845(b) and (d)).

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories certified by the State of California.

Please contact our office at (916) 323-3431 or elapca@waterboards.ca.gov with questions.

Sincerely,

A handwritten signature in blue ink that reads "Christine Sotelo".

Christine Sotelo, Chief
Environmental Laboratory Accreditation Program

Enclosure



CALIFORNIA STATE
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing



Alpha Analytical Laboratories, Inc.

208 Mason Street
Ukiah, CA 95482
Phone: (707) 468-0401

Certificate No. 1551
Expiration Date 6/30/2019

Field of Testing: 101 - Microbiology of Drinking Water

101.010	001	Heterotrophic Bacteria	SM9215 B	
101.011	001	Heterotrophic Bacteria	SimPlate	
101.020	001	Total Coliform P/A	SM9221 B	
101.021	001	Fecal Coliform P/A	SM9221E (MTF/EC)	
101.060	002	Total Coliform P/A	SM9223	
101.060	003	E. coli P/A	SM9223	
101.120	001	Total Coliform (Enumeration)	SM9221 B,C	
101.130	001	Fecal Coliform (Enumeration)	SM9221E (MTF/EC)	
101.160	001	Total Coliform (Enumeration)	SM9223	
101.195	001	Heterotrophic Bacteria	SM9215 B	
101.196	001	Heterotrophic Bacteria	SimPlate	
101.200	001	E. coli (Enumeration)	SM9223 B	

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.026	001	Calcium	EPA 200.7	
102.026	002	Magnesium	EPA 200.7	
102.026	003	Potassium	EPA 200.7	
102.026	005	Sodium	EPA 200.7	
102.030	003	Chloride	EPA 300.0	
102.030	005	Fluoride	EPA 300.0	Interim
102.030	006	Nitrate	EPA 300.0	Interim
102.030	007	Nitrite	EPA 300.0	Interim
102.030	008	Phosphate, Ortho	EPA 300.0	Interim
102.030	009	Sulfate	EPA 300.0	Interim
102.040	001	Bromide	EPA 300.1	
102.040	002	Chlorite	EPA 300.1	Interim
102.040	003	Chlorate	EPA 300.1	Interim
102.040	004	Bromate	EPA 300.1	Interim
102.045	001	Perchlorate	EPA 314.0	Interim
102.095	001	Turbidity	SM2130B-2001	Interim
102.100	001	Alkalinity	SM2320B	Interim
102.120	001	Hardness	SM2340B	Interim
102.121	001	Hardness	SM2340C	Interim
102.130	001	Conductivity	SM2510B	Interim
102.140	001	Total Dissolved Solids	SM2540C	Interim
102.174	001	Chlorine, Free	SM4500-CI F-2000	Interim
102.174	002	Chlorine, Total Residual	SM4500-CI F-2000	Interim
102.190	001	Cyanide, Total	SM4500-CN E	
102.203	001	Hydrogen Ion (pH)	SM4500-H+ B-2000	Interim

As of 7/11/2018, this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

102.220	001	Nitrite	SM4500-NO2 B	Interim
102.232	002	Nitrate	SM4500-NO3 E	Interim
102.240	001	Phosphate, Ortho	SM4500-P E	Interim
102.242	001	Silica	SM4500-SIO2 C-1997	Interim
102.262	001	Total Organic Carbon TOC	SM5310C	Interim
102.263	002	TOC/DOC	SM5310C	Interim
102.270	001	Surfactants	SM5540 C-2011	Interim
102.520	001	Calcium	EPA 200.7	
102.520	002	Magnesium	EPA 200.7	
102.520	003	Potassium	EPA 200.7	
102.520	005	Sodium	EPA 200.7	
102.565	001	Cyanide, Total	Quickchem 10-204-00-1-X	

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.130	001	Aluminum	EPA 200.7	Interim
103.130	003	Barium	EPA 200.7	Interim
103.130	004	Beryllium	EPA 200.7	Interim
103.130	005	Cadmium	EPA 200.7	Interim
103.130	007	Chromium	EPA 200.7	Interim
103.130	008	Copper	EPA 200.7	Interim
103.130	009	Iron	EPA 200.7	Interim
103.130	011	Manganese	EPA 200.7	Interim
103.130	012	Nickel	EPA 200.7	Interim
103.130	015	Silver	EPA 200.7	Interim
103.130	017	Zinc	EPA 200.7	Interim
103.130	018	Boron	EPA 200.7	Interim
103.140	001	Aluminum	EPA 200.8	Interim
103.140	002	Antimony	EPA 200.6	Interim
103.140	003	Arsenic	EPA 200.8	Interim
103.140	004	Barium	EPA 200.8	Interim
103.140	005	Beryllium	EPA 200.8	Interim
103.140	006	Cadmium	EPA 200.8	Interim
103.140	007	Chromium	EPA 200.8	Interim
103.140	008	Copper	EPA 200.8	Interim
103.140	009	Lead	EPA 200.8	Interim
103.140	010	Manganese	EPA 200.8	Interim
103.140	012	Nickel	EPA 200.8	Interim
103.140	013	Selenium	EPA 200.8	Interim
103.140	014	Silver	EPA 200.8	Interim
103.140	015	Thallium	EPA 200.8	Interim
103.140	016	Zinc	EPA 200.8	Interim
103.140	017	Boron	EPA 200.8	Interim
103.140	018	Vanadium	EPA 200.8	Interim
103.160	001	Mercury	EPA 245.1	Interim
103.310	001	Chromium (VI)	EPA 218.6	Interim

Field of Testing: 104 - Volatile Organic Chemistry of Drinking Water

104.030	001	1,2-Dibromoethane (EDB, Ethylene Dibromide)	EPA 504.1	Interim
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104.030	002	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	Interim
104.040	000	Volatile Organic Compounds	EPA 524.2	Interim
Field of Testing: 105 - Semi-volatile Organic Chemistry of Drinking Water				
105.030	000	N-, P- Pesticides	EPA 507	Interim
105.035	000	Organochlorine Pesticides	EPA 508	Interim
105.100	000	Carbamates	EPA 531.1	Interim
105.120	001	Glyphosate	EPA 547	Interim
105.200	008	Haloacetic Acids (HAA5)	EPA 552.2	Interim
Field of Testing: 106 - Radiochemistry of Drinking Water				
106.092	001	Uranium	EPA 200.8	Interim
Field of Testing: 107 - Microbiology of Wastewater				
107.020	002	Total Coliform P/A	SM9221 B-2006	Interim
107.030	002	Total Coliform with Chlorine Present	SM9221 B-2006	Interim
107.040	002	Fecal Coliform (Enumeration)	SM9221 C,E-2006	
107.050	002	Fecal Coliform with Chlorine Present	SM9221 C,E-2006	Interim
107.100	002	Fecal Streptococci	SM9230 B-2007	Interim
107.242	001	Enterococci	Enterolert	Interim
107.245	002	E. coli (Enumeration)	SM9223 B (Colilert)	
Field of Testing: 108 - Inorganic Chemistry of Wastewater				
108.112	001	Boron	EPA 200.7	
108.112	002	Calcium	EPA 200.7	
108.112	004	Magnesium	EPA 200.7	
108.112	005	Potassium	EPA 200.7	
108.112	007	Sodium	EPA 200.7	
108.112	008	Phosphorus, Total	EPA 200.7	
108.113	001	Boron	EPA 200.8	
108.113	002	Calcium	EPA 200.8	
108.113	003	Magnesium	EPA 200.8	
108.113	004	Potassium	EPA 200.8	
108.113	006	Sodium	EPA 200.8	
108.120	002	Chloride	EPA 300.0	
108.120	003	Fluoride	EPA 300.0	
108.120	008	Sulfate	EPA 300.0	
108.120	012	Nitrate (as N)	EPA 300.0	
108.120	013	Nitrate-Nitrite (as N)	EPA 300.0	
108.120	014	Nitrite (as N)	EPA 300.0	
108.120	015	Phosphate, Ortho (as P)	EPA 300.0	
108.121	001	Bromide	EPA 300.1	Interim
108.360	001	Phenols, Total	EPA 420.1	
108.381	001	Oil and Grease	EPA 1664A	
108.390	001	Turbidity	SM2130B-2001	
108.410	001	Alkalinity	SM2320B-1997	
108.420	001	Hardness (calculation)	SM2340B-1997	
108.421	001	Hardness	SM2340C-1997	
108.430	001	Conductivity	SM2510B-1997	
108.439	001	Residue, Volatile	SM2540E-1997	Interim

108.440	001	Residue, Total	SM2540B-1997	
108.441	001	Residue, Filterable TDS	SM2540C-1997	Interim
108.442	001	Residue, Non-filterable TSS	SM2540D-1997	
108.443	001	Residue, Settleable	SM2540F-1997	
108.464	001	Chlorine, Total	SM4500-CI F-2000	
108.472	001	Cyanide, Total	SM4500-CN C,E-1999	
108.473	001	Cyanide, amenable	SM4500-CN G-1999	
108.490	001	Hydrogen Ion (pH)	SM4500-H+ B-2000	
108.500	002	Ammonia (as N)	SM4500-NH3 B,C-1997	
108.501	002	Kjeldahl Nitrogen, Total (as N)	SM4500-NH3 C-1997	
108.511	001	Kjeldahl Nitrogen, Total (as N)	SM4500-Norg B- 1997	
108.514	001	Nitrite (as N)	SM4500-NO2 B-2000	
108.528	001	Nitrate-Nitrite (as N)	SM4500-NO3- E-2000	
108.528	003	Nitrate (as N)	SM4500-NO3- E-2000	
108.536	001	Oxygen, dissolved	SM4500-O G-2001	
108.540	001	Phosphate, Ortho	SM4500-P E-1999	
108.541	001	Phosphorus, Total	SM4500-P E-1999	
108.552	001	Silica, Dissolved	SM4500-SiO2 C-1997	
108.584	001	Sulfide (as S)	SM4500-S D-2000	
108.592	001	Biochemical Oxygen Demand	SM5210B-2001	
108.592	002	Carbonaceous BOD	SM5210B-2001	
108.595	001	Chemical Oxygen Demand	SM5220D-1997	
108.597	001	Organic Carbon-Total (TOC)	SM5310C-2000	
108.605	001	Surfactants	SM5540 C-2000	
108.926	001	Cyanide, Total	Quickchem 10-204-00-1-X	

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7	
109.010	002	Antimony	EPA 200.7	
109.010	003	Arsenic	EPA 200.7	
109.010	004	Barium	EPA 200.7	
109.010	005	Beryllium	EPA 200.7	
109.010	006	Boron	EPA 200.7	
109.010	007	Cadmium	EPA 200.7	
109.010	009	Chromium	EPA 200.7	
109.010	010	Cobalt	EPA 200.7	
109.010	011	Copper	EPA 200.7	
109.010	012	Iron	EPA 200.7	
109.010	013	Lead	EPA 200.7	
109.010	015	Manganese	EPA 200.7	
109.010	016	Molybdenum	EPA 200.7	
109.010	017	Nickel	EPA 200.7	
109.010	019	Selenium	EPA 200.7	
109.010	021	Silver	EPA 200.7	
109.010	023	Thallium	EPA 200.7	
109.010	024	Tin	EPA 200.7	
109.010	025	Titanium	EPA 200.7	
109.010	026	Vanadium	EPA 200.7	

109.010	027	Zinc	EPA 200.7
109.020	001	Aluminum	EPA 200.8
109.020	002	Antimony	EPA 200.8
109.020	003	Arsenic	EPA 200.8
109.020	004	Barium	EPA 200.8
109.020	005	Beryllium	EPA 200.8
109.020	006	Cadmium	EPA 200.8
109.020	007	Chromium	EPA 200.8
109.020	008	Cobalt	EPA 200.8
109.020	009	Copper	EPA 200.8
109.020	010	Lead	EPA 200.8
109.020	011	Manganese	EPA 200.8
109.020	012	Molybdenum	EPA 200.8
109.020	013	Nickel	EPA 200.8
109.020	014	Selenium	EPA 200.8
109.020	015	Silver	EPA 200.8
109.020	016	Thallium	EPA 200.8
109.020	017	Vanadium	EPA 200.8
109.020	018	Zinc	EPA 200.8
109.020	021	Iron	EPA 200.8
109.020	022	Tin	EPA 200.8
109.020	023	Titanium	EPA 200.8
109.104	001	Chromium (VI)	EPA 218.6
109.190	001	Mercury	EPA 245.1
109.445	002	Chromium (VI)	SM3500-Cr B-2009
109.445	002	Chromium (VI)	SM3500-Cr B-2009

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

110.040	000	Purgeable Organic Compounds	EPA 624	Interim
110.040	040	Halogenated Hydrocarbons	EPA 624	
110.040	041	Aromatic Compounds	EPA 624	

Field of Testing: 111 - Semi-volatile Organic Chemistry of Wastewater

111.091	000	Organophosphorus Pesticides	EPA 614
111.100	000	Acid/base/neutral Organic Compounds	EPA 625
111.170	000	Pesticides & PCBs	EPA 608

Field of Testing: 113 - Whole Effluent Toxicity of Wastewater

113.022	003A	Rainbow trout (O. mykiss)	EPA 2019 (EPA-821-R-02-012), Static
113.022	003B	Rainbow trout (O. mykiss)	EPA 2019 (EPA-821-R-02-012), Static Renewal

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B

114.010 009	Lead	EPA 6010B
114.010 010	Molybdenum	EPA 6010B
114.010 011	Nickel	EPA 6010B
114.010 012	Selenium	EPA 6010B
114.010 013	Silver	EPA 6010B
114.010 014	Thallium	EPA 6010B
114.010 015	Vanadium	EPA 6010B
114.010 016	Zinc	EPA 6010B
114.103 001	Chromium (VI)	EPA 7196A
114.140 001	Mercury	EPA 7470A
114.141 001	Mercury	EPA 7471A
114.222 001	Cyanide, Total	EPA 9014
114.240 001	Corrosivity - pH Determination	EPA 9040B
114.241 001	Corrosivity - pH Determination	EPA 9045C

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.010 001	Extraction Procedure Toxicity (EPTox)	EPA 1310A
115.020 001	Toxicity Characteristic Leaching Procedure (TC EPA 1311 (TCLP)	
115.030 001	Waste Extraction Test (WET)	CCR Chapter 11, Article 5, Appendix II

Field of Testing: 116 - Volatile Organic Chemistry of Hazardous Waste

116.080 000	Volatile Organic Compounds	EPA 8260B
116.080 120	Oxygenates	EPA 8260B
116.100 001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS

Field of Testing: 117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010 001	Diesel-range Total Petroleum Hydrocarbons	EPA 8015B
117.016 001	Diesel-range Total Petroleum Hydrocarbons	LUFT
117.110 000	Extractable Organics	EPA 8270C
117.210 000	Pesticides & PCBs	EPA 8081A
117.220 000	PCBs	EPA 8082
117.240 000	Organophosphorus Pesticides	EPA 8141A

Field of Testing: 119 - Toxicity Bioassay of Hazardous Waste

119.010 001	Fathead Minnow (P. promelas)	Polisini & Miller (CDFG 1988)
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Field of Testing: 120 - Physical Properties of Hazardous Waste

120.010 001	Ignitability	EPA 1010
120.040 001	Reactive Cyanide	Section 7.3 SW-846
120.050 001	Reactive Sulfide	Section 7.3 SW-846
120.070 001	Corrosivity - pH Determination	EPA 9040B
120.080 001	Corrosivity - pH Determination	EPA 9045C

Field of Testing: 126 - Microbiology of Recreational Water

126.030 001	Total Coliform (Enumeration)	SM9221 B,C
126.030 001	Fecal Coliform (Enumeration)	SM9221 E-2006
126.050 001	Total Coliform (Enumeration)	SM9223 B (Collisure)
126.050 002	E. coli (Enumeration)	SM9223 B (Collert/Quanti-Tray)
126.080 001	Enterococci	IDEXX