



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

CERTIFICATE OF ENVIRONMENTAL ACCREDITATION

Is hereby granted to

Orange Coast Analytical, Inc.

3002 Dow, Suite 532

Tustin, CA 92780

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,
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.: **2576**

Expiration Date: **01/31/2013**

Effective Date: **02/01/2011**

Richmond, California
subject to forfeiture or revocation

George C. Kulasingam, Ph.D., Chief
Environmental Laboratory Accreditation Program Branch

**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing**

ORANGE COAST ANALYTICAL, INC.
3002 DOW, SUITE 532
TUSTIN, CA 92780
Phone: (714) 832-0064

**Certificate No.: 2576
Renew Date: 1/31/2011**

Field of Testing: 101 - Microbiology of Drinking Water

101.011	001	Heterotrophic Bacteria	SimPlate
101.060	002	Total Coliform	SM9223
101.060	003	E. coli	SM9223

Field of Testing: 102 - Inorganic Chemistry of Drinking Water

102.030	001	Bromide	EPA 300.0
102.030	003	Chloride	EPA 300.0
102.030	005	Fluoride	EPA 300.0
102.030	006	Nitrate	EPA 300.0
102.030	007	Nitrite	EPA 300.0
102.030	008	Phosphate, Ortho	EPA 300.0
102.030	010	Sulfate	EPA 300.0
102.100	001	Alkalinity	SM2320B
102.120	001	Hardness	SM2340B
102.130	001	Conductivity	SM2510B
102.140	001	Total Dissolved Solids	SM2540C
102.145	001	Total Dissolved Solids	EPA 160.1
102.150	001	Chloride	SM4110B
102.150	002	Fluoride	SM4110B
102.150	003	Nitrate	SM4110B
102.150	004	Nitrite	SM4110B
102.150	005	Phosphate, Ortho	SM4110B
102.150	006	Sulfate	SM4110B
102.163	001	Chlorine, Free and Total	SM4500-CI G
102.190	001	Cyanide, Total	SM4500-CN E
102.192	001	Cyanide, amenable	SM4500-CN G
102.260	001	Total Organic Carbon	SM5310B
102.261	001	DOC	SM5310B
102.261	002	TOC/DOC	SM5310B
102.270	001	Surfactants	SM5540C
102.510	001	Calcium	SM3120B
102.510	002	Magnesium	SM3120B
102.510	003	Potassium	SM3120B
102.510	004	Silica	SM3120B
102.510	005	Sodium	SM3120B
102.510	006	Hardness (calc.)	SM3120B

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102.520 001	Calcium	EPA 200.7
102.520 002	Magnesium	EPA 200.7
102.520 003	Potassium	EPA 200.7
102.520 004	Silica	EPA 200.7
102.520 005	Sodium	EPA 200.7
102.520 006	Hardness (calc.)	EPA 200.7

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

103.030 001	Mercury	SM3112B
103.060 001	Aluminum	SM3120B
103.060 003	Barium	SM3120B
103.060 004	Beryllium	SM3120B
103.060 005	Cadmium	SM3120B
103.060 007	Chromium	SM3120B
103.060 008	Copper	SM3120B
103.060 009	Iron	SM3120B
103.060 011	Manganese	SM3120B
103.060 012	Nickel	SM3120B
103.060 015	Silver	SM3120B
103.060 017	Zinc	SM3120B
103.130 001	Aluminum	EPA 200.7
103.130 003	Barium	EPA 200.7
103.130 004	Beryllium	EPA 200.7
103.130 005	Cadmium	EPA 200.7
103.130 007	Chromium	EPA 200.7
103.130 008	Copper	EPA 200.7
103.130 009	Iron	EPA 200.7
103.130 011	Manganese	EPA 200.7
103.130 012	Nickel	EPA 200.7
103.130 015	Silver	EPA 200.7
103.130 017	Zinc	EPA 200.7
103.130 018	Boron	EPA 200.7
103.140 001	Aluminum	EPA 200.8
103.140 002	Antimony	EPA 200.8
103.140 003	Arsenic	EPA 200.8
103.140 004	Barium	EPA 200.8
103.140 005	Beryllium	EPA 200.8
103.140 006	Cadmium	EPA 200.8
103.140 007	Chromium	EPA 200.8
103.140 008	Copper	EPA 200.8
103.140 009	Lead	EPA 200.8
103.140 010	Manganese	EPA 200.8
103.140 012	Nickel	EPA 200.8
103.140 013	Selenium	EPA 200.8

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103.140 014	Silver	EPA 200.8
103.140 015	Thallium	EPA 200.8
103.140 016	Zinc	EPA 200.8
103.140 018	Vanadium	EPA 200.8
103.160 001	Mercury	EPA 245.1
103.310 001	Chromium (VI)	EPA 218.6

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

104.030 001	1,2-Dibromoethane	EPA 504.1
104.030 002	1,2-Dibromo-3-chloropropane	EPA 504.1
104.035 001	1,2,3-Trichloropropane	SRL 524M-TCP
104.040 000	Volatile Organic Compounds	EPA 524.2
104.040 001	Benzene	EPA 524.2
104.040 007	n-Butylbenzene	EPA 524.2
104.040 008	sec-Butylbenzene	EPA 524.2
104.040 009	tert-Butylbenzene	EPA 524.2
104.040 010	Carbon Tetrachloride	EPA 524.2
104.040 011	Chlorobenzene	EPA 524.2
104.040 015	2-Chlorotoluene	EPA 524.2
104.040 016	4-Chlorotoluene	EPA 524.2
104.040 019	1,3-Dichlorobenzene	EPA 524.2
104.040 020	1,2-Dichlorobenzene	EPA 524.2
104.040 021	1,4-Dichlorobenzene	EPA 524.2
104.040 022	Dichlorodifluoromethane	EPA 524.2
104.040 023	1,1-Dichloroethane	EPA 524.2
104.040 024	1,2-Dichloroethane	EPA 524.2
104.040 025	1,1-Dichloroethene	EPA 524.2
104.040 026	cis-1,2-Dichloroethene	EPA 524.2
104.040 027	trans-1,2-Dichloroethene	EPA 524.2
104.040 028	Dichloromethane	EPA 524.2
104.040 029	1,2-Dichloropropane	EPA 524.2
104.040 033	cis-1,3-Dichloropropene	EPA 524.2
104.040 034	trans-1,3-Dichloropropene	EPA 524.2
104.040 035	Ethylbenzene	EPA 524.2
104.040 037	Isopropylbenzene	EPA 524.2
104.040 039	Naphthalene	EPA 524.2
104.040 041	N-propylbenzene	EPA 524.2
104.040 042	Styrene	EPA 524.2
104.040 044	1,1,2,2-Tetrachloroethane	EPA 524.2
104.040 045	Tetrachloroethene	EPA 524.2
104.040 046	Toluene	EPA 524.2
104.040 048	1,2,4-Trichlorobenzene	EPA 524.2
104.040 049	1,1,1-Trichloroethane	EPA 524.2
104.040 050	1,1,2-Trichloroethane	EPA 524.2

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104.040 051	Trichloroethene	EPA 524.2
104.040 052	Trichlorofluoromethane	EPA 524.2
104.040 054	1,2,4-Trimethylbenzene	EPA 524.2
104.040 055	1,3,5-Trimethylbenzene	EPA 524.2
104.040 056	Vinyl Chloride	EPA 524.2
104.040 057	Xylenes, Total	EPA 524.2
104.045 001	Bromodichloromethane	EPA 524.2
104.045 002	Bromoform	EPA 524.2
104.045 003	Chloroform	EPA 524.2
104.045 004	Dibromochloromethane	EPA 524.2
104.045 005	Trihalomethanes	EPA 524.2
104.050 002	Methyl tert-butyl Ether (MTBE)	EPA 524.2
104.050 004	tert-Amyl Methyl Ether (TAME)	EPA 524.2
104.050 005	Ethyl tert-butyl Ether (ETBE)	EPA 524.2
104.050 006	Trichlorotrifluoroethane	EPA 524.2
104.050 007	tert-Butyl Alcohol (TBA)	EPA 524.2
104.050 008	Carbon Disulfide	EPA 524.2
104.050 009	Methyl Isobutyl Ketone	EPA 524.2

Field of Testing: 108 - Inorganic Chemistry of Wastewater

108.020 001	Conductivity	EPA 120.1
108.090 001	Residue, Volatile	EPA 160.4
108.110 001	Turbidity	EPA 180.1
108.112 001	Boron	EPA 200.7
108.112 002	Calcium	EPA 200.7
108.112 003	Hardness (calc.)	EPA 200.7
108.112 004	Magnesium	EPA 200.7
108.112 005	Potassium	EPA 200.7
108.112 006	Silica	EPA 200.7
108.112 007	Sodium	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
108.113 005	Silica	EPA 200.8
108.113 006	Sodium	EPA 200.8
108.120 001	Bromide	EPA 300.0
108.120 002	Chloride	EPA 300.0
108.120 003	Fluoride	EPA 300.0
108.120 004	Nitrate	EPA 300.0
108.120 005	Nitrite	EPA 300.0
108.120 006	Nitrate-nitrite, Total	EPA 300.0
108.120 007	Phosphate, Ortho	EPA 300.0
108.120 008	Sulfate	EPA 300.0

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108.141 001	Alkalinity	EPA 310.2
108.265 001	Phosphorus, Total	EPA 365.3
108.323 001	Chemical Oxygen Demand	EPA 410.4
108.340 001	Total Organic Carbon	EPA 415.1
108.360 001	Phenols, Total	EPA 420.1
108.370 001	Surfactants	EPA 425.1
108.381 001	Oil and Grease	EPA 1664A
108.390 001	Turbidity	SM2130B
108.400 001	Acidity	SM2310B
108.410 001	Alkalinity	SM2320B
108.420 001	Hardness (calc.)	SM2340B
108.430 001	Conductivity	SM2510B
108.440 001	Residue, Total	SM2540B
108.441 001	Residue, Filterable	SM2540C
108.442 001	Residue, Non-filterable	SM2540D
108.443 001	Residue, Settleable	SM2540F
108.447 001	Boron	SM3120B
108.447 002	Calcium	SM3120B
108.447 003	Hardness (calc.)	SM3120B
108.447 004	Magnesium	SM3120B
108.447 005	Potassium	SM3120B
108.447 006	Silica	SM3120B
108.447 007	Sodium	SM3120B
108.448 001	Bromide	SM4110B
108.448 002	Chloride	SM4110B
108.448 003	Fluoride	SM4110B
108.448 004	Nitrate	SM4110B
108.448 005	Nitrite	SM4110B
108.448 006	Nitrate-nitrite	SM4110B
108.448 007	Phosphate, Ortho	SM4110B
108.448 008	Sulfate	SM4110B
108.470 001	Cyanide, Manual Distillation	SM4500-CN C
108.472 001	Cyanide, Total	SM4500-CN E
108.473 001	Cyanide, amenable	SM4500-CN G
108.490 001	pH	SM4500-H+ B
108.493 001	Ammonia	SM4500-NH3 D or E (19th/20th)
108.493 002	Kjeldahl Nitrogen	SM4500-NH3 D or E (19th/20th)
108.494 001	Ammonia	SM4500-NH3 F or G (18th)
108.494 002	Kjeldahl Nitrogen	SM4500-NH3 F or G (18th)
108.531 001	Dissolved Oxygen	SM4500-O G
108.541 001	Phosphorus, Total	SM4500-P E
108.580 001	Sulfide	SM4500-S= D
108.590 001	Biochemical Oxygen Demand	SM5210B

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108.591	001	Carbonaceous BOD	SM5210B
108.602	001	Chemical Oxygen Demand	SM5220D
108.610	001	Total Organic Carbon	SM5310B
108.630	001	Oil and Grease	SM5520B (20th)
108.640	001	Surfactants	SM5540C
108.660	001	Chemical Oxygen Demand	HACH8000

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	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	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

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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
109.430 003	Arsenic	SM3120B
109.430 004	Barium	SM3120B
109.430 005	Beryllium	SM3120B
109.430 007	Cadmium	SM3120B
109.430 009	Chromium	SM3120B
109.430 010	Cobalt	SM3120B
109.430 011	Copper	SM3120B
109.430 012	Iron	SM3120B
109.430 013	Lead	SM3120B
109.430 015	Manganese	SM3120B
109.430 016	Molybdenum	SM3120B
109.430 017	Nickel	SM3120B
109.430 019	Selenium	SM3120B
109.430 021	Silver	SM3120B
109.430 023	Thallium	SM3120B
109.430 024	Vanadium	SM3120B
109.430 025	Zinc	SM3120B
109.824 001	Iron	SM3500-Fe B (20th)

Field of Testing: 110 - Volatile Organic Chemistry of Wastewater

110.020 000	Aromatic Volatiles	EPA 602
110.030 000	Acrolein, Acrylonitrile	EPA 603
110.040 040	Halogenated Hydrocarbons	EPA 624
110.040 041	Aromatic Compounds	EPA 624
110.040 042	Oxygenates	EPA 624
110.040 043	Other Volatile Organics	EPA 624
110.060 040	Halogenated Hydrocarbons	SM6210B
110.060 041	Aromatic Compounds	SM6210B
110.060 042	Oxygenates	SM6210B
110.060 043	Other Volatile Organics	SM6210B
110.070 000	Aromatic Volatiles	SM6220B

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

111.060 000	Polynuclear Aromatics	EPA 610
111.101 032	Polynuclear Aromatic Hydrocarbons	EPA 625
111.101 033	Adipates	EPA 625
111.101 034	Phthalates	EPA 625

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111.101	036	Other Extractables	EPA 625
111.131	032	Polynuclear Aromatic Hydrocarbons	SM6410B
111.131	033	Adipates	SM6410B
111.131	034	Phthalates	SM6410B
111.131	036	Other Extractables	SM6410B
111.150	000	Polynuclear Aromatics	SM6440B
111.170	030	Organochlorine Pesticides	EPA 608
111.170	031	PCBs	EPA 608
111.230	030	Organochlorine Pesticides	SM6630B
111.230	031	PCBs	SM6630B
111.240	040	Organochlorine Pesticides	SM6630C
111.240	041	PCBs	SM6630C
111.273	001	Oil and Grease	EPA 1664A

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
114.020	001	Antimony	EPA 6020
114.020	002	Arsenic	EPA 6020
114.020	003	Barium	EPA 6020
114.020	004	Beryllium	EPA 6020
114.020	005	Cadmium	EPA 6020
114.020	006	Chromium	EPA 6020
114.020	007	Cobalt	EPA 6020
114.020	008	Copper	EPA 6020
114.020	009	Lead	EPA 6020
114.020	010	Molybdenum	EPA 6020
114.020	011	Nickel	EPA 6020
114.020	012	Selenium	EPA 6020
114.020	013	Silver	EPA 6020

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114.020 014	Thallium	EPA 6020
114.020 015	Vanadium	EPA 6020
114.020 016	Zinc	EPA 6020
114.103 001	Chromium (VI)	EPA 7196A
114.106 001	Chromium (VI)	EPA 7199
114.140 001	Mercury	EPA 7470A
114.141 001	Mercury	EPA 7471A
114.222 001	Cyanide	EPA 9014
114.240 001	Corrosivity - pH Determination	EPA 9040B
114.241 001	Corrosivity - pH Determination	EPA 9045C
114.280 001	Organic Lead	HML 939-M
114.281 001	Organic Lead	HML 938-M

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 (TCLP)	EPA 1311
115.030 001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II
115.040 001	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312

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

116.010 000	EDB and DBCP	EPA 8011
116.020 030	Nonhalogenated Volatiles	EPA 8015B
116.020 031	Ethanol and Methanol	EPA 8015B
116.030 001	Gasoline-range Organics	EPA 8015B
116.040 041	Methyl tert-butyl Ether (MTBE)	EPA 8021B
116.040 061	Aromatic Volatiles	EPA 8021B
116.040 062	BTEX	EPA 8021B
116.080 000	Volatile Organic Compounds	EPA 8260B
116.080 120	Oxygenates	EPA 8260B
116.100 001	Total Petroleum Hydrocarbons - Gasoline	LUFT GC/MS
116.100 010	BTEX and MTBE	LUFT GC/MS
116.110 001	Total Petroleum Hydrocarbons - Gasoline	LUFT

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
117.020 000	Phenols	EPA 8041
117.110 000	Extractable Organics	EPA 8270C
117.210 000	Organochlorine Pesticides	EPA 8081A
117.220 000	PCBs	EPA 8082
117.250 000	Chlorinated Herbicides	EPA 8151A

Field of Testing: 120 - Physical Properties of Hazardous Waste

120.010 001	Ignitability	EPA 1010
120.070 001	Corrosivity - pH Determination	EPA 9040B
120.080 001	Corrosivity - pH Determination	EPA 9045C

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