

ANIMAL RESEARCH INDUSTRY WATER QUALITY MONITORING CERTIFICATE PROGRAM DETAILS



Bronze Certificate Package - Includes the following 110 analytes and physical factors

22 - Metals

Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium
Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel
Potassium	Selenium	Silver	Sodium	Thallium	Zinc		

16 Inorganic and Physical Factors

Alkalinity (As CaCO ₃)	Bromide	Chloride	Corrosivity
Fluoride	Sulfate	Hardness (as CaCO ₃)	Total Dissolved Solids
Nitrate (as N)	Nitrite (as N)	Ortho Phosphate	pH
Turbidity (NTU)	Color	Foaming Agents	Odor Threshold

56 - Volatile Organic Chemicals (VOCs)

Benzene	Bromobenzene	Bromochloromethane	Bromomethane
n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Tetrachloride
Chlorobenzene	Chloroethane	Chloromethane	2-Chlorotoluene
4-Chlorotoluene	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene
1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane
1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane
1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene
trans-1,3-Dichloropropene	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene
4-Isopropyltoluene	Dichloromethane	Napthalene	Propylbenzene
Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene
Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane
1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichlorofluoromethane	1,2,3-Trichloropropane
1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl Chloride	Methyl-Tert-Butyl Ether
Methyl Ethyl Ketone	o-Xylene	m-Xylene	p-Xylene

14 - Disinfection Byproducts - THMs

Bromoform	Bromodichloromethane	Chloroform	Dibromochloromethane
Total THMs (sum of THMs)	Monochloroacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid
Trichloroacetic Acid	Dibromoacetic Acid	Total HAA's (sum of acids)	Chlorite
Bromate	Bromide		

2 - Radionuclides

Alpha Particles	Beta Particles
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Silver Certificate Package - Includes all Bronze Package analytes plus the following 30 analytes

27 - Pesticides, Herbicides and PCBs

Endrin	Lindane	Methoxychlor	PCBs
Toxaphene	Silvex (2,4,5-TP)	2,4-D	Alachlor
Aldrin	Atrazine	Chlorodane	Dalapon
Dicamba	Dichloran	Dieldrin	Dinoseb
Heptachlor	Heptachlor Epoxide	Hexachlorobenzene	Hexachlorocyclopentadiene
Pentachloronitrobenzene	Pentachlorophenol	Picloram	Simazine
Trifuralin	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	

3 - Disinfectants

Chlorine	Chloramine	Chlorine Dioxide
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Gold Certificate Package - Includes all Bronze and Silver package analytes plus 17 additional analytes

8 - Carbamates

Carbaryl	Methomyl	Aldicarb Sulfoxide	Aldicarb Sulfone
Aldicarb	3-Hydroxycarbofuran	Oxamyl	Carbofuran

7 - Drinking Water Organics

Metolachlor	Propachlor	Di(2-ethylhexyl) phthalate	Benzo (a) pyrene
Butachlor	Metribuzin	Di(2-ethylhexyl)adipate	

2 - Miscellaneous Organics

Cyanide	Total Phenols
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Platinum Certificate Package - Includes all Bronze, Silver and Gold package analytes plus 9 additional analytes

3 - Additional Pesticides & Herbicides

Glyphosate	Endothall	Diquat
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3 - Other Radionuclides

Radium 226 & 228	Uranium
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3 - Miscellaneous Organics & Minerals

Asbestos	Dioxin	Perchlorate
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Quarterly Monitoring Package - Includes the following 52 analytes and physical factors.

22 - Metals

Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium
Chromium	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel
Potassium	Selenium	Silver	Sodium	Thallium	Zinc		

16 Inorganic and Physical Factors

Alkalinity (As CaCo3)	Bromide	Chloride	Corrosivity
Fluoride	Sulfate	Hardness (as CaCO3)	Total Dissolved Solids
Nitrate (as N)	Nitrite (as N)	Ortho Phosphate	pH
Turbidity (NTU)	Color	Foaming Agents	Odor Threshold

14 - Disinfection By-products - THMs

Bromoform	Bromodichloromethane	Chloroform	Dibomochloromethane
Total THMs (sum of THMs)	Monochloroacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid
Trichloroacetic Acid	Dibromoacetic Acid	Total HAA's (sum of acids)	Chlorite
Bromate	Bromide		



Microbiological Monitoring Options:

Legionella

Legionella is commonly found in surface and ground water. The bacteria can be found in warm-water sources including hot-water systems, fountains and sinks that utilize public water supplies. Legionella can take up to two weeks to develop after exposure and is can be very problematic for compromised immune systems; therefore, should be routinely monitored in hospital and laboratory settings.

Pseudomonas

Pseudomonas bacteria are opportunist pathogens meaning they look for opportunity such as a cut to cause infection. They are frequently found in moist areas such as sinks, antiseptic solutions, and urine receptacles. Weakened immune systems can make this bacteria more problematic.

TC/SPC

Total Coliform/Standard plate count is a procedure for estimating the number of live Heterotrophic bacteria in water. It is used to measure the changes in water quality in various applications including drinking water and wastewater. It is also commonly used as a monitoring method for treatment efficiency in bottled water plants.

Iron Bacteria

Iron bacteria derive their energy from oxidizing iron commonly found in groundwater. There are no health effects associated with the presence of these bacteria, but they can cause aesthetic problems with the water such as taste, odor and staining as well as contribute to corrosion issues.

Sulfate Reducing Bacteria

Sulfate reducing bacteria feed upon sulfur based compounds including sulfate, sulfite, elemental sulfur and thiosulfate. They produce hydrogen sulfide as a by-product, so the "rotten egg odor" is often an indication that these bacteria are present. Other indications include blackening of the water or black slime formed in the back of the toilet tank.

Slime-Forming Bacteria

Slime bacteria is a term used to describe bacteria which produce significant amounts of slime or biofilms. The presence of these bacteria can cause problems with plugging or flow restriction, taste and odor, as well as providing a biofilm for pathogens such as legionella to hide in.

Micro-ID

This analysis will examine the water for all Microbiological contaminants in the sample, looking at yeast, mold and bacteria. Analysis includes identification of all species detected.



Watercheck and Watercheck w/Pesticide Option

The Watercheck is an 83-item screen of well water for the following: bacteria (presence/absence test for Coliform and E-Coli bacteria); 19 heavy metals and minerals; 6 other inorganic chemicals; 5 physical factors; 4 trihalomethanes and 47 volatile organic chemicals. The Watercheck with Pesticide adds an additional check for 20 pesticides, herbicides and PCBs. Each test kit is designed for one sample location.

City-Check Standard

The City-Check Standard package is a comprehensive water analysis of city water. This package tests 17 metals/minerals, 6 inorganic chemicals, 4 physical characteristics, 16 disinfection and disinfection by-products and 47 volatile organic compounds.

City-Check Deluxe

The City-Check Deluxe package covers all the items in the standard testing package, then adds a group of 20 pesticides, herbicides and PCBs. Pesticides and herbicides are more likely to be present in water supplies that have surface water as their source.

RO Check

The RO Check was designed to determine the quality of feed water for specific items such as cations, anions, other inorganic chemicals and physical characteristics. There are a total of 31 parameters on this test including items such as silica, potassium, carbonate and bicarbonate to name a few.

Complete RO Screen

The complete RO was developed to be the most complete analysis available for reverse osmosis design. The Complete RO-Screen offers a comprehensive, in-depth analysis of 22 metals, 9 other inorganics and 14 other parameters necessary to determine the proper reverse osmosis system specification.