

COMMONWEALTH OF KENTUCKY

Energy and Environment Cabinet

2023

Wastewater Laboratory Certification Program
In Accordance with KRS 224.10-670 and 401 KAR Chapter 5:320



THIS CERTIFIES THAT

Environmental Monitoring, Inc.
5730 Industrial Park Rd
Norton, VA 24273
Laboratory ID Number: KY98012



The above laboratory has complied with Kentucky Administrative Regulation 401 KAR 5:320, Wastewater Laboratory Certification Program, for the analyses of wastewater samples, as specified in 33 U.S.C. 1342, for the method-analyte pairs specified on the attached certification list.

Effective From: January 1, 2023

To: December 31, 2023

Kevin Stewart

Certification Program Manager

Signed by: Kevin Stewart

Environmental Monitoring, Inc.
98012

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KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
Field	7782-50-5	Chlorine, Total Residual	Interim	HACH 8167	60003807	0.10	mg/L
Field		Oxygen, Dissolved	Interim	SM 4500-O G-2016	20121679		mg/L
Field		Specific Conductance	Certified	SM 2510 B-2011	20048617	10	umhos/cm
Field		Temperature	Interim	SM 2550 B-2010	20053229		degrees Celsius
Field		Turbidity	Certified	SM 2130 B-2011	20048220	1	NTU
Field		pH	Interim	SM 4500-H+ B-2011	20105220		S.U.
Inorganic/General Chemistry		Acidity, Total (as CaCO ₃)	Certified	SM 2310 B-2011	20044615	4	mg/L
Inorganic/General Chemistry		Alkalinity, Total (as CaCO ₃)	Certified	SM 2320 B-2011	20045618	4	mg/L
Inorganic/General Chemistry	7664-41-7	Ammonia	Certified	EPA 350.1 Rev. 2.0 (1993)	10063602	0.20	mg/L
Inorganic/General Chemistry		BOD, 5-day	Certified	SM 5210 B-2011	20135266	2	mg/L
Inorganic/General Chemistry	24959-67-9	Bromide	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	0.60	mg/L
Inorganic/General Chemistry		Carbonaceous Biochemical Oxygen Demand (CBOD ₅)	Certified	SM 5210 B-2011	20135266	2	mg/L
Inorganic/General Chemistry		Chemical Oxygen Demand (COD)	Certified	HACH 8000 (1979)	60003001	25	mg/L
Inorganic/General Chemistry	16887-00-6	Chloride	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	5	mg/L
Inorganic/General Chemistry	16887-00-6	Chloride	Certified	SM 4500-Cl ⁻ B-2011	20084611	1	mg/L
Inorganic/General Chemistry	57-12-5	Cyanide, Total (as Cn)	Certified	EPA 335.4 Rev. 1.0 (1993)	10061402	10	ug/L
Inorganic/General Chemistry	16984-48-8	Fluoride	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	0.40	mg/L
Inorganic/General Chemistry		Hardness, Total (as CaCO ₃)	Certified	SM 2340 B-2011	20046611	1	mg/L
Inorganic/General Chemistry		Hardness, Total (as CaCO ₃)	Certified	SM 2340 C-2011	20047614	4	mg/L
Inorganic/General Chemistry	84145-82-4	Nitrate	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	0.60	mg/L
Inorganic/General Chemistry		Nitrate-Nitrite (as N)	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	1	mg/L



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Inorganic/General Chemistry	14797-65-0	Nitrite	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	0.40	mg/L
Inorganic/General Chemistry		Oil and Grease	Certified	EPA 1664 Rev. A	10127807	5	mg/L
Inorganic/General Chemistry	7723-14-0	Phosphorus, Total (as P)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.50	mg/L
Inorganic/General Chemistry		Solids, Settleable	Certified	SM 2540 F-2011	20052215	0.40	mL/L
Inorganic/General Chemistry		Solids, Total Dissolved	Certified	SM 2540 C-2011	20050413	1	mg/L
Inorganic/General Chemistry		Solids, Total Suspended (TSS)	Certified	SM 2540 D-2011	20051212	1	mg/L
Inorganic/General Chemistry	14808-79-8	Sulfate, Total (as SO ₄)	Certified	EPA 300.0 Rev 2.1 (1993)	10053200	5	mg/L
Inorganic/General Chemistry	18496-25-8	Sulfide, Total (as S)	Certified	SM 4500-S ₂ ⁻ F-2011	20126663	1	mg/L
Inorganic/Metals	7429-90-5	Aluminum, Total (as Al)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7440-36-0	Antimony, Total (as Sb)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-36-0	Antimony, Total (as Sb)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-38-2	Arsenic, Total (as As)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-38-2	Arsenic, Total (as As)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-39-3	Barium, Total (as Ba)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-39-3	Barium, Total (as Ba)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-41-7	Beryllium, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0020	mg/L
Inorganic/Metals	7440-41-7	Beryllium, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-42-8	Boron	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-43-9	Cadmium, Total (as Cd)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-43-9	Cadmium, Total (as Cd)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-70-2	Calcium, total [as Ca]	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.50	mg/L
Inorganic/Metals	7440-47-3	Chromium, Total (as Cr)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-47-3	Chromium, Total (as Cr)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L



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Inorganic/Metals	7440-48-4	Cobalt, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-48-4	Cobalt, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-50-8	Copper, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.01	mg/L
Inorganic/Metals	7440-50-8	Copper, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7439-89-6	Iron, Total (as Fe)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7439-92-1	Lead, Total (as Pb)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7439-92-1	Lead, Total (as Pb)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7439-95-4	Magnesium, Total (as Mg)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.50	mg/L
Inorganic/Metals	7439-96-5	Manganese, Total (as Mn)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7439-98-7	Molybdenum, Total (as Mo)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7439-98-7	Molybdenum, Total (as Mo)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-02-0	Nickel, Total (as Ni)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-02-0	Nickel, Total (as Ni)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-09-7	Potassium, Total (as K)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.50	mg/L
Inorganic/Metals	7782-49-2	Selenium, Total (as Se)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals		Silica, Dissolved	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.20	mg/L
Inorganic/Metals	7440-22-4	Silver, Total (as Ag)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0150	mg/L
Inorganic/Metals	7440-22-4	Silver, Total (as Ag)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-23-5	Sodium, Total (as Na)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.50	mg/L
Inorganic/Metals	7440-28-0	Thallium, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-28-0	Thallium, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	2	ug/L
Inorganic/Metals	7440-31-5	Tin, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L
Inorganic/Metals	7440-62-2	Vanadium, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.03	mg/L



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Inorganic/Metals	7440-62-2	Vanadium, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	5	ug/L
Inorganic/Metals	7440-66-6	Zinc, Total (as Zn)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.01	mg/L
Inorganic/Metals	7440-66-6	Zinc, Total (as Zn)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	5	ug/L

