

COMMONWEALTH OF KENTUCKY

Energy and Environment Cabinet

2018

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 Road

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, 2018

To: December 31, 2018



Kevin Stewart

Certification Program Manager

Laboratory Name: Environmental Monitoring, Inc.

KY Lab ID #: 98012

KY Category	CAS #	Analyte	Status	Reference Method	MDL	MRL	Units	ATP	Method Mod
Field	N/A	Dissolved Oxygen	Certified	SM 4500 -O G-2011	N/A	N/A	N/A		
Field	N/A	pH	Certified	SM 4500 H+ B-2011	N/A	N/A	N/A		
Field	N/A	Specific Conductance	Certified	SM 2510 B-2011	10	10	umhos/cm		
Field	N/A	Temperature	Certified	SM 2550 B-2000	N/A	N/A	N/A		
Field	N/A	Turbidity	Certified	SM 2130 B-2011	0	0.02	NTU		
Inorganic/Gen Chem	N/A	Acidity	Certified	SM 2310 B-2011	4	4	mg/L		
Inorganic/Gen Chem	N/A	Alkalinity	Certified	SM 2320 B-2011	4	4	mg/L		
Inorganic/Gen Chem	7664-41-7	Ammonia	Certified	EPA 350.1 Rev 2.0	0.069	0.2	mg/L		
Inorganic/Gen Chem	N/A	Biochemical Oxygen Demand (BOD5)	Certified	SM 5210 B-2011	2	2	mg/L		
Inorganic/Gen Chem	7726-95-6	Bromide	Certified	EPA 300.0 Rev. 2.1	0.1115	0.6	mg/L		
Inorganic/Gen Chem	N/A	Demand (CBOD5)	Certified	SM 5210 B-2011	2	2	mg/L		
Inorganic/Gen Chem	N/A	Chemical Oxygen Demand	Certified	HACH 8000	10.4016	20	mg/L	Nat	
Inorganic/Gen Chem	16887-00-6	Chloride	Certified	EPA 300.0 Rev. 2.1	0.8315	5	mg/L		
Inorganic/Gen Chem	16887-00-6	Chloride	Certified	SM 4500 Cl ⁻ B-2011	1	1	mg/L		
Inorganic/Gen Chem	57-12-5	Cyanide - Total	Certified	EPA 335.4	6.35	10	ug/L		
Inorganic/Gen Chem	7782-41-4	Fluoride	Certified	EPA 300.0 Rev. 2.1	0.15	0.4	mg/L		
Inorganic/Gen Chem	N/A	Hardness - Total	Certified	SM 2340 C-2011	4	4	mg/L		
Inorganic/Gen Chem	14797-55-8	Nitrate (as N)	Certified	EPA 300.0 Rev. 2.1	0.1403	0.6	mg/L		
Inorganic/Gen Chem	N/A	Nitrate-Nitrite (as N)	Certified	EPA 300.0 Rev. 2.1	0.267	1	mg/L		
Inorganic/Gen Chem	1594-56-5	Nitrite (as N)	Certified	EPA 300.0 Rev. 2.1	0.1277	0.4	mg/L		
Inorganic/Gen Chem	N/A	Oil and Grease	Certified	EPA 1664 Rev. A	2.2716	5	mg/L		
Inorganic/Gen Chem	7723-14-0	Phosphorus	Certified	EPA 200.7 Rev. 4.4	0.0873	0.5	mg/L		
Inorganic/Gen Chem	N/A	Settleable Solids	Certified	SM 2540 F-2011	0.4	0.4	ml/L		
Inorganic/Gen Chem	7664-93-9	Sulfate	Certified	EPA 300.0 Rev. 2.1	1.5632	5	mg/L		
Inorganic/Gen Chem	9073-75-0	Sulfide	Certified	SM 4500 S ²⁻ F-2011	1	1	mg/L		
Inorganic/Gen Chem	10052	Total Dissolved Solids	Certified	SM 2540 C-2011	1	1	mg/L		
Inorganic/Gen Chem	10050	Total Suspended Solids	Certified	SM 2540 D-2011	1	1	mg/L		
Inorganic/Metals	7429-0-5	Aluminum	Certified	EPA 200.7 Rev. 4.4	0.0072	0.05	mg/L		
Inorganic/Metals	7440-36-0	Antimony	Certified	EPA 200.8 Rev. 5.4	0.1689	2	ug/L		
Inorganic/Metals	7440-36-0	Antimony	Certified	EPA 200.7 Rev. 4.4	0.009	0.03	mg/L		
Inorganic/Metals	7440-38-2	Arsenic	Certified	EPA 200.8 Rev. 5.4	0.037	2	ug/L		
Inorganic/Metals	7440-38-2	Arsenic	Certified	EPA 200.7 Rev. 4.4	0.0035	0.03	mg/L		
Inorganic/Metals	7440-39-3	Barium	Certified	EPA 200.8 Rev. 5.4	0.2338	2	ug/L		
Inorganic/Metals	7440-39-3	Barium	Certified	EPA 200.7 Rev. 4.4	0.0013	0.03	mg/L		
Inorganic/Metals	7440-41-7	Beryllium	Certified	EPA 200.8 Rev. 5.4	0.0364	2	ug/L		

KY Category	CAS #	Analyte	Status	Reference Method	MDL	MRL	Units	ATP	Method Mod
Inorganic/Metals	7440-41-7	Beryllium	Certified	EPA 200.7 Rev. 4.4	0.0006	0.002	mg/L		
Inorganic/Metals	7440-42-8	Boron	Certified	EPA 200.7 Rev. 4.4	0.0047	0.03	mg/L		
Inorganic/Metals	7440-43-9	Cadmium	Certified	EPA 200.8 Rev. 5.4	0.037	2	ug/L		
Inorganic/Metals	7440-43-9	Cadmium	Certified	EPA 200.7 Rev. 4.4	0.0025	0.03	mg/L		
Inorganic/Metals	7440-70-2	Calcium	Certified	EPA 200.7 Rev. 4.4	0.0736	0.5	mg/L		
Inorganic/Metals	7440-47-3	Chromium	Certified	EPA 200.8 Rev. 5.4	0.0685	2	ug/L		
Inorganic/Metals	7440-47-3	Chromium	Certified	EPA 200.7 Rev. 4.4	0.0094	0.03	mg/L		
Inorganic/Metals	7440-48-4	Cobalt	Certified	EPA 200.8 Rev. 5.4	0.1063	2	ug/L		
Inorganic/Metals	7440-48-4	Cobalt	Certified	EPA 200.7 Rev. 4.4	0.0007	0.03	mg/L		
Inorganic/Metals	7440-50-8	Copper	Certified	EPA 200.8 Rev. 5.4	0.4339	2	ug/L		
Inorganic/Metals	7440-50-8	Copper	Certified	EPA 200.7 Rev. 4.4	0.0062	0.01	mg/L		
Inorganic/Metals	7439-89-6	Iron	Certified	EPA 200.7 Rev. 4.4	0.0099	0.05	mg/L		
Inorganic/Metals	7439-92-1	Lead	Certified	EPA 200.8 Rev. 5.4	0.0543	2	ug/L		
Inorganic/Metals	7439-92-1	Lead	Certified	EPA 200.7 Rev. 4.4	0.0031	0.03	mg/L		
Inorganic/Metals	7439-95-4	Magnesium	Certified	EPA 200.7 Rev. 4.4	0.0713	0.5	mg/L		
Inorganic/Metals	7439-96-5	Manganese	Certified	EPA 200.7 Rev. 4.4	0.0099	0.05	mg/L		
Inorganic/Metals	7439-98-7	Molybdenum	Certified	EPA 200.8 Rev. 5.4	0.1232	2	ug/L		
Inorganic/Metals	7439-98-7	Molybdenum	Certified	EPA 200.7 Rev. 4.4	0.0004	0.03	mg/L		
Inorganic/Metals	7440-02-0	Nickel	Certified	EPA 200.8 Rev. 5.4	0.2897	2	ug/L		
Inorganic/Metals	7440-02-0	Nickel	Certified	EPA 200.7 Rev. 4.4	0.0007	0.03	mg/L		
Inorganic/Metals	7440-09-7	Potassium	Certified	EPA 200.7 Rev. 4.4	0.0978	0.5	mg/L		
Inorganic/Metals	7782-49-2	Selenium	Certified	EPA 200.8 Rev. 5.4	0.3548	2	ug/L		
Inorganic/Metals	99439-28-8	Silica	Certified	EPA 200.7 Rev. 4.4	0.0414	0.2	mg/L		
Inorganic/Metals	7440-22-4	Silver	Certified	EPA 200.8 Rev. 5.4	0.0236	2	ug/L		
Inorganic/Metals	7440-22-4	Silver	Certified	EPA 200.7 Rev. 4.4	0.0068	0.03	mg/L		
Inorganic/Metals	7440-23-5	Sodium	Certified	EPA 200.7 Rev. 4.4	0.0815	0.5	mg/L		
Inorganic/Metals	7440-28-0	Thallium	Certified	EPA 200.8 Rev. 5.4	0.1031	2	ug/L		
Inorganic/Metals	7440-28-0	Thallium	Certified	EPA 200.7 Rev. 4.4	0.0062	0.03	mg/L		
Inorganic/Metals	7440-31-5	Tin	Certified	EPA 200.7 Rev. 4.4	0.0054	0.03	mg/L		
Inorganic/Metals	7440-62-2	Vanadium	Certified	EPA 200.8 Rev. 5.4	0.0629	2	ug/L		
Inorganic/Metals	7440-62-2	Vanadium	Certified	EPA 200.7 Rev. 4.4	0.01	0.03	mg/L		
Inorganic/Metals	7440-66-6	Zinc	Certified	EPA 200.8 Rev. 5.4	0.7973	5	ug/L		
Inorganic/Metals	7440-66-6	Zinc	Certified	EPA 200.7 Rev. 4.4	0.0063	0.01	mg/L		