

# COMMONWEALTH OF KENTUCKY

## Energy and Environment Cabinet

2024

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



### THIS CERTIFIES THAT

Teklab Inc.  
5445 Horseshoe Lake Rd  
Collinsville, IL 62234  
Laboratory ID Number: KY98006



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, 2024

To: December 31, 2024

*Kevin Stewart*

Certification Program Manager

Signed by: Kevin Stewart

KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
Field		Specific Conductance	Certified	EPA 120.1 (Rev. 1982)	10006403	10	umhos/cm
Field		Specific Conductance	Certified	SM 2510 B-2011	20048617	10	umhos/cm
Field		Turbidity	Certified	EPA 180.1, Rev. 2.0 (1993)	10011800	1	mg/L
Field		Turbidity	Certified	SM 2130 B-2011	20048220	1	mg/L
Field		pH	Certified	SM 4500-H+ B-2011	20105220	1	S.U.
Inorganic/General Chemistry		Acidity, Total (as CaCO <sub>3</sub> )	Certified	SM 2310 B-2011	20044615	5	mg/L
Inorganic/General Chemistry		Alkalinity, Total (as CaCO <sub>3</sub> )	Certified	SM 2320 B-2011	20045618	5	mg/L
Inorganic/General Chemistry	7664-41-7	Ammonia	Certified	EPA 350.1 Rev. 2.0 (1993)	10063602	0.10	mg/L
Inorganic/General Chemistry	7664-41-7	Ammonia	Certified	SM 4500-NH <sub>3</sub> G-2011	20111415	0.10	mg/L
Inorganic/General Chemistry		BOD, 5-day	Interim	SM 5210 B-2016	20135039	10	mg/L
Inorganic/General Chemistry		Carbon, Total Organic	Interim	SM 5310 C-2014	20138834	1	mg/L
Inorganic/General Chemistry		Carbonaceous Biochemical Oxygen Demand (CBOD <sub>5</sub> )	Interim	SM 5210 B-2016	20135039	4	mg/L
Inorganic/General Chemistry		Chemical Oxygen Demand (COD)	Certified	EPA 410.4, Rev. 2.0 (1993)	10077404	50	mg/L
Inorganic/General Chemistry		Chemical Oxygen Demand (COD)	Certified	SM 5220 D-2011	20136816	50	mg/L
Inorganic/General Chemistry	16887-00-6	Chloride	Certified	SM 4500-Cl <sup>-</sup> E-2011	20086811	4	mg/L
Inorganic/General Chemistry		Chromium (VI)	Certified	SM 3500-Cr B-2011	20066266	0.0010	mg/L
Inorganic/General Chemistry		Color	Certified	SM 2120 B-2011	20039310	5	mg/L
Inorganic/General Chemistry		Cyanide - Available	Certified	OIA-1677-09 (2010)	60031450	0.0050	mg/L
Inorganic/General Chemistry	57-12-5	Cyanide, Total (as Cn)	Certified	EPA 335.4 Rev. 1.0 (1993)	10061402	0.0050	mg/L
Inorganic/General Chemistry	16984-48-8	Fluoride	Certified	SM 4500-F <sup>-</sup> C-2011	20102414	0.10	mg/L
Inorganic/General Chemistry		Hardness, Total (as CaCO <sub>3</sub> )	Interim	SM 2340 B-2011	20046611	0.4560	mg/L



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Inorganic/General Chemistry	84145-82-4	Nitrate	Certified	Calculation		0.50	mg/L
Inorganic/General Chemistry		Nitrate-Nitrite (as N)	Certified	EPA 353.2, Rev. 2.0 (1993)	10067604	0.50	mg/L
Inorganic/General Chemistry		Nitrate-Nitrite (as N)	Interim	SM 4500-NO3 <sup>-</sup> F-2016	20117684	0.50	mg/L
Inorganic/General Chemistry	14797-65-0	Nitrite	Certified	EPA 353.2, Rev. 2.0 (1993)	10067604	0.50	mg/L
Inorganic/General Chemistry	14797-65-0	Nitrite	Certified	SM 4500-NO2 <sup>-</sup> B-2011	20113115	0.50	mg/L
Inorganic/General Chemistry		Nitrogen, Kjeldahl Total (TKN)	Certified	EPA 351.2 Rev. 2.0 (1993)	10065404	1	mg/L
Inorganic/General Chemistry		Oil and Grease	Certified	EPA 1664 Rev. A	10127807	5	mg/L
Inorganic/General Chemistry	64743-03-9	Phenolics, Total	Certified	EPA 420.1 (Rev. 1978)	10079206	0.0050	mg/L
Inorganic/General Chemistry	64743-03-9	Phenolics, Total	Certified	EPA 420.4 Rev. 1.0 (1993)	10080203	0.0050	mg/L
Inorganic/General Chemistry	7723-14-0	Phosphorus, Total (as P)	Certified	EPA 365.4 (Issued 1974)	10071202	0.10	mg/L
Inorganic/General Chemistry		Solids, Settleable	Interim	SM 2540 F-2015	20052226	0.10	mg/L
Inorganic/General Chemistry		Solids, Total	Interim	SM 2540 B-2015	20049438	100	mg/L
Inorganic/General Chemistry		Solids, Total Dissolved	Interim	SM 2540 C-2015	20050435	20	mg/L
Inorganic/General Chemistry		Solids, Total Suspended (TSS)	Interim	SM 2540 D-2015	20051223	6	mg/L
Inorganic/General Chemistry		Solids, Volatile (Residue, Volatile)	Interim	SM 2540 E-2015	20051610	100	mg/L
Inorganic/General Chemistry	14808-79-8	Sulfate, Total (as SO4)	Certified	EPA 375.2, Rev. 2.0 (1993)	10073004	10	mg/L
Inorganic/General Chemistry	18496-25-8	Sulfide, Total (as S)	Certified	SM 4500-S2 <sup>-</sup> D-2011	20125864	0.05	mg/L
Inorganic/General Chemistry	14265-45-3	Sulfite (as SO3)	Certified	SM 4500-SO3 <sup>-</sup> B-2011	20130636	2	mg/L
Inorganic/General Chemistry		Surfactants (MBAS)	Certified	SM 5540 C-2011	20145066	0.25	mg/L
Inorganic/General Chemistry	264888-19-9	o-Phosphate	Certified	SM 4500-P E-2011	20124225	0.10	mg/L
Inorganic/Metals	7429-90-5	Aluminum, Total (as Al)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0250	mg/L
Inorganic/Metals	7429-90-5	Aluminum, Total (as Al)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0050	mg/L



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Inorganic/Metals	7440-36-0	Antimony, Total (as Sb)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7440-36-0	Antimony, Total (as Sb)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-38-2	Arsenic, Total (as As)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0250	mg/L
Inorganic/Metals	7440-38-2	Arsenic, Total (as As)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-39-3	Barium, Total (as Ba)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0025	mg/L
Inorganic/Metals	7440-39-3	Barium, Total (as Ba)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-41-7	Beryllium, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0005	mg/L
Inorganic/Metals	7440-41-7	Beryllium, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-42-8	Boron	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.02	mg/L
Inorganic/Metals	7440-43-9	Cadmium, Total (as Cd)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0020	mg/L
Inorganic/Metals	7440-43-9	Cadmium, Total (as Cd)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-70-2	Calcium, total [as Ca]	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.10	mg/L
Inorganic/Metals	7440-47-3	Chromium, Total (as Cr)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0050	mg/L
Inorganic/Metals	7440-47-3	Chromium, Total (as Cr)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0003	mg/L
Inorganic/Metals	7440-48-4	Cobalt, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0050	mg/L
Inorganic/Metals	7440-48-4	Cobalt, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-50-8	Copper, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0050	mg/L
Inorganic/Metals	7440-50-8	Copper, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7439-89-6	Iron, Total (as Fe)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.04	mg/L
Inorganic/Metals	7439-92-1	Lead, Total (as Pb)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0150	mg/L
Inorganic/Metals	7439-92-1	Lead, Total (as Pb)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7439-95-4	Magnesium, Total (as Mg)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7439-96-5	Manganese, Total (as Mn)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0070	mg/L



KY Category	CAS #	Analyte	Status	Reference Method	Method Code for PT Reporting	MRL	MRL Units
Inorganic/Metals	7439-97-6	Mercury, Total (as Hg)	Certified	EPA 1631E (2002)	10237204	0.80	ng/L
Inorganic/Metals	7439-97-6	Mercury, Total (as Hg)	Certified	EPA 245.1 Rev 3.0	10036609	0.0002	mg/L
Inorganic/Metals	7439-98-7	Molybdenum, Total (as Mo)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.01	mg/L
Inorganic/Metals	7440-02-0	Nickel, Total (as Ni)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0050	mg/L
Inorganic/Metals	7440-02-0	Nickel, Total (as Ni)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7723-14-0	Phosphorus, Total (as P)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.10	mg/L
Inorganic/Metals	7440-09-7	Potassium, Total (as K)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.10	mg/L
Inorganic/Metals	7782-49-2	Selenium, Total (as Se)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.04	mg/L
Inorganic/Metals	7782-49-2	Selenium, Total (as Se)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-22-4	Silver, Total (as Ag)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.0070	mg/L
Inorganic/Metals	7440-22-4	Silver, Total (as Ag)	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/L
Inorganic/Metals	7440-23-5	Sodium, Total (as Na)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7440-28-0	Thallium, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.05	mg/L
Inorganic/Metals	7440-28-0	Thallium, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0004	mg/L
Inorganic/Metals	7440-31-5	Tin, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.02	mg/L
Inorganic/Metals	7440-32-6	Titanium, Total (as Ti)	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.01	mg/L
Inorganic/Metals	7440-62-2	Vanadium, Total	Certified	EPA 200.7, Rev. 4.4 (1994)	10013806	0.01	mg/L
Inorganic/Metals	7440-62-2	Vanadium, Total	Certified	EPA 200.8, Rev. 5.4 (1994)	10014605	0.0002	mg/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	0.0030	mg/L

