



DEPARTMENT OF  
PUBLIC HEALTH AND HUMAN SERVICES  
STATE OF MONTANA

**ENVIRONMENTAL LABORATORY**  
**CERTIFIED DRINKING WATER PARAMETERS**

ENERGY LABORATORY, INC.  
1120 South 27<sup>th</sup> Street  
Billings MT 59107-0916  
CERT0044  
Chemistry Expiration 01/01/2025  
Microbiology Expiration 01/01/2025

**MICROBIOLOGY PARAMETERS**

PARAMETER	METHOD 1	METHOD2	METHOD 3
Total Coliforms	9223 B Colilert (Detect) 9223 B Colisure (Detect)	9223 B Colilert-18 (Detect) 9223 B Colilert-18 (Count)	9221 A,B,C (MTF, Detect)
E. coli	9223 B Colilert (Detect) 9223 B Colilert-18 (Count)	9223 B Colilert-18 (Detect)	9223 B Colisure (Detect)
Fecal Coliforms	9222 D (MF Count)	9221 E (Detect, Count)	
Heterotrophic Plate Count	9215E SimPlate®		
E. coli Enumeration	EPA 1603 (MF Count)	9223 B Colilert Quantitray (Count)	
Total Coliform Enumeration	9222 B (MF Count)	9223 B Colilert Quantitray (Count)	

**HERBICIDE PARAMETERS**

PARAMETER	METHOD
2,4,5-TP (Silvex)	EPA 515.4
2,4-D	EPA 515.4

**PRIMARY INORGANIC PARAMETERS**

PARAMETER	METHOD 1	METHOD 2
Antimony	EPA 200.8	
Arsenic	EPA 200.8	
Barium	EPA 200.8	EPA 200.7
Beryllium	EPA 200.8	EPA 200.7
Cadmium	EPA 200.8	EPA 200.7
Chromium	EPA 200.8	EPA 200.7
Copper	EPA 200.8	EPA 200.7
Lead	EPA 200.8	
Mercury	EPA 200.8	EPA 245.1
Nickel	EPA 200.8	EPA 200.7
Selenium	EPA 200.8	
Thallium	EPA 200.8	
Uranium	EPA 200.8	
Cyanide	Kelada-01	EPA 335.4
Free Cyanide as Amenable Cyanide	SM 4500-CN G	
Fluoride	SM 4500-F-C	EPA 300.0
Nitrate	EPA 353.2	EPA 300.0
Nitrite	EPA 353.2	EPA 300.0
Total nitrate-nitrite	EPA 300.0	
Turbidity	SM 2130B	

UV 254

SM 5910 B

**PRIMARY ORGANIC PARAMETERS**

<b>PARAMETER</b>	<b>METHOD 1</b>	<b>METHOD 2</b>
Alachlor	EPA 525.2	
Atrazine	EPA 525.2	
Chlordane	EPA 525.2	
Dalapon	EPA 515.4	
Dinoseb	EPA 515.4	
Endothal	EPA 548.1	
Endrin	EPA 525.2	
Heptachlor	EPA 525.2	
Heptachlor Epoxide	EPA 525.2	
Lindane	EPA 525.2	
Methoxychlor	EPA 525.2	
Pentachlorophenol	EPA 515.4	
Picloram	EPA 515.4	
Simazine	EPA 525.2	
Toxaphene	EPA 525.2	
1,2-Dibromo-3-Chloropropane	EPA 504.1	
1,2,3-Trichloropropane	EPA 504.1	
Benzo(A) Pyrene	EPA 525.2	
Di (Ethylhexyl) Phthalate	EPA 525.2	
Di (Ethylhexyl)Adipate	EPA 525.2	
Ethylene Dibromide	EPA 504.1	
Hexachlorobenzene	EPA 525.2	
Hexachlorocyclopentadiene	EPA 525.2	
PCB Screen	EPA 525.2	
Bromodichloromethane	EPA 524.2	
Bromoform	EPA 524.2	
Chlorodibromomethane	EPA 524.2	
Chloroform	EPA 524.2	
Total Trihalomethanes	EPA 524.2	
1,1,1-Trichloroethane	EPA 524.2	
1,1,2-Trichloroethane	EPA 524.2	
1,1-Dichloroethylene	EPA 524.2	
1,2 Dichlorobenzene	EPA 524.2	
1,2,4-Trichlorobenzene	EPA 524.2	
1,2-Dichloroethane	EPA 524.2	
1,2-Dichloropropane	EPA 524.2	
1,4-Dichlorobenzene	EPA 524.2	
Benzene	EPA 524.2	
Carbon Tetrachloride	EPA 524.2	
Chlorobenzene	EPA 524.2	
cis-1,2-Dichloroethylene	EPA 524.2	
Dichloromethane	EPA 524.2	
Ethylbenzene	EPA 524.2	
Styrene	EPA 524.2	
Tetrachloroethylene	EPA 524.2	
Toluene	EPA 524.2	
trans-1,2-Dichloroethylene	EPA 524.2	
Trichloroethylene	EPA 524.2	
Vinyl Chloride	EPA 524.2	
Xylenes	EPA 524.2	

**SECONDARY PARAMETERS**

<b>PARAMETER</b>	<b>METHOD 1</b>	<b>METHOD 2</b>
Aluminum	EPA 200.8	EPA 200.7
Iron	EPA 200.7	EPA 200.8
Manganese	EPA 200.8	EPA 200.7
Silver	EPA 200.8	EPA 200.7
Zinc	EPA 200.8	EPA 200.7
Chloride	EPA 300.0	
Corrosivity (Langlier index)	SM 2320 B	
Odor	SM 2150 B	
pH	SM 4500-H	
Sulfate	EPA 300.0	
Total Dissolved Solids	SM 2540 C	
Alkalinity	SM 2320 B	
Silica as SiO <sub>2</sub>	EPA 200.7	
Color	SM 2120 B	

**STATE MONITORED AND/OR UNREGULATED PARAMETERS**

<b>PARAMETER</b>	<b>METHOD 1</b>	<b>METHOD 2</b>
Calcium	EPA 200.7	EPA 200.8
Sodium	EPA 200.7	EPA 200.8
Conductivity	SM 2510 B	
Ortho-Phosphate	EPA 365.1	
Dissolved Organic Carbon	SM 5310 C	
Total Organic Carbon	SM 5310 C	
Temperature	SM 2550	
Butachlor	EPA 525.2	
Dichloroprop (Dichlorprop)	EPA 515.4	
2,4-DB	EPA 515.4	
Metaloachlor	EPA 525.2	
Metribuzin	EPA 525.2	
Aldrin	EPA 525.2	
Dicamba	EPA 515.4	
Dieldrin	EPA 525.2	
Propachlor	EPA 525.2	
1-Chlorobutane	EPA 524.2	
1,1-Dichloroethane	EPA 524.2	
1,1-Dichloro-2-propanone	EPA 524.2	
1,1,1,2-Tetrachloroethane	EPA 524.2	
1,1,2,2-Tetrachloroethane	EPA 524.2	
1,1-Dichloropropene	EPA 524.2	
1,2,3-Trichlorobenzene	EPA 524.2	
1,2,3-Trichloropropane	EPA 524.2	
1,2,4-Trimethylbenzene	EPA 524.2	
1,3,5-Trimethylbenzene	EPA 524.2	
1,3-Dichlorobenzene	EPA 524.2	
1,3-Dichloropropane	EPA 524.2	
2,2-Dichloropropane	EPA 524.2	
3-Chloropropene (Allyl chloride)	EPA 524.2	
Bromobenzene	EPA 524.2	
Bromochloromethane	EPA 524.2	
Bromomethane	EPA 524.2	
Chloroacetonitrile	EPA 524.2	
Chloroethane	EPA 524.2	
Cis-1,3-Dichloropropene	EPA 524.2	

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Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Diethyl ether	EPA 524.2
Ethyl methacrylate	EPA 524.2
Fluorotrichloromethane	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Hexachloroethane	EPA 524.2
Isopropylbenzene	EPA 524.2
m/p-Xylenes	EPA 524.2
Methyl acrylate	EPA 524.2
Methyl chloride (Chloromethane)	EPA 524.2
Methyl tert-butyl ether (MTBE)	EPA 524.2
Naphthalene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
o-Chlorotoluene	EPA 524.2
o-Xylene	EPA 524.2
p-Chlorotoluene	EPA 524.2
p-Isopropyltoluene	EPA 524.2
sec-Butylbenzene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Tetrahydrofuran (THF)	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Arochlor-1016 (PCB-1016)	EPA 525.2
Arochlor-1221 (PCB-1221)	EPA 525.2
Arochlor-1232 (PCB-1232)	EPA 525.2
Arochlor-1242 (PCB-1242)	EPA 525.2
Arochlor-1248 (PCB-1248)	EPA 525.2
Arochlor-1254 (PCB-1254)	EPA 525.2
Arochlor-1260 (PCB-1260)	EPA 525.2

**DISINFECTION BYPRODUCTS**

PARAMETER	METHOD 1	METHOD 2
Bromochloroacetic Acid	EPA 552.2	
Dibromoacetic Acid	EPA 552.2	
Dichloroacetic Acid	EPA 552.2	
Monobromoacetic Acid	EPA 552.2	
Monochloroacetic Acid	EPA 552.2	
TrichloroAcetic Acid	EPA 552.2	
Total haloacetic acids(HAA5)	EPA 552.2	
Residual Free Chlorine	SM 4500-CL-G	
Boron	EPA 200.8	EPA 200.7
Molybdenum	EPA 200.8	EPA 200.7
Bromide	EPA 300.0	
Hydrogen Sulfide	ASTM D1945	
Langelier Index	SM 2330B	
Phenols	EPA 420.4	
Ammonia	EPA 350.1	
Total Hardness	EPA 200.7	SM2340B
Magnesium	EPA 200.8	EPA 200.7
Potassium	EPA 200.8	EPA 200.7
Maximum THM Potential (MT Specific)	EPA 524.2	
Maximum HAA5 potential(MT Specific)	EPA 552.2	

**Per- and Polyfluoroalkyl Substances (PFAS)**

PARAMETER	Method 1
Perfluorohexanoic acid	EPA 537.1
Perfluoroheptanoic acid	EPA 537.1
Perfluorooctanoic acid	EPA 537.1
Perfluorononanoic acid	EPA 537.1
Perfluorodecanoic acid	EPA 537.1
Perfluoroundecanoic acid	EPA 537.1
Perfluorododecanoic acid	EPA 537.1
Perfluorotridecanoic acid	EPA 537.1
Perfluorotetradecanoic acid	EPA 537.1
Perfluorobutanesulfonic	EPA 537.1
Perfluorohexanesulfonic acid	EPA 537.1
Perfluorooctanesulfonic acid	EPA 537.1
N-ethyl perfluorooctanesulfonamidoacetic acid	EPA 537.1
N-methyl perfluorooctanesulfonamidoacetic acid	EPA 537.1
Hexafluoropropylene oxide dimer acid	EPA 537.1
4,8-dioxa-3H-perfluorononanoic acid	EPA 537.1