Bureau of Mining Regulation and Reclamation

Analyte List for Profile III

General Chemistry Parameters

Constituent/Parameter	Field Filter	Analytical Method[1]	Reporting Limit[2]	Reporting Units
Acidity[3]	No	SM2310B	1.0	mg/L
Alkalinity, Bicarbonate (as $CaCO_3$)[4]	No	SM2320B	1.0	mg/L
Alkalinity, Total (as $CaCO_3$)[4]	No	SM2320B	1.0	mg/L
Chloride	No	EPA 300.0	1.0	mg/L
Fluoride	No	EPA 300.0	0.1	mg/L
Nitrate + Nitrite (as N)	No	EPA 353.2	0.4	mg/L
Nitrogen, Total (as N)	No	EPA 351.2	0.4	mg/L
pH (± 0.1 S.U.)	No	SM4500-H^+-B	0.1	S.U.
Phosphorus	No	EPA 200.7	0.5	mg/L
Sulfate	No	EPA 300.0	1.5	mg/L
Total Dissolved Solids	No	SM2540C	10	mg/L
Total Suspended Solids	No	SM2540D	5.0	mg/L

Metals, Total

Constituent/Parameter	Field Filter	Analytical Method[1]	Reporting Limit[2]	Reporting Units
Aluminum	No	EPA 200.7	0.05	mg/L
Antimony	No	EPA 200.8	0.003	mg/L
Arsenic	No	EPA 200.8	0.005	mg/L
Barium	No	EPA 200.7	0.02	mg/L
Beryllium	No	EPA 200.8	0.001	mg/L
Boron	No	EPA 200.7	0.1	mg/L
Cadmium	No	EPA 200.8	0.001	mg/L
Calcium	No	EPA 200.7	2.0	mg/L
Chromium	No	EPA 200.7	0.005	mg/L
Copper	No	EPA 200.7	0.04	mg/L
Iron	No	EPA 200.7	0.1	mg/L
Lead	No	EPA 200.8	0.0025	mg/L
Lithium	No	EPA 200.7	0.1	mg/L
Magnesium	No	EPA 200.7	0.5	mg/L
Manganese	No	EPA 200.7	0.01	mg/L
Mercury	No	EPA 245.1	0.0002	mg/L
Molybdenum	No	EPA 200.7	0.02	mg/L
Nickel	No	EPA 200.7	0.03	mg/L
Potassium	No	EPA 200.7	1.0	mg/L
Selenium	No	EPA 200.8	0.005	mg/L
Sodium	No	EPA 200.7	2.0	mg/L
Thallium	No	EPA 200.8	0.001	mg/L
Tin	No	EPA 200.7	5.0	mg/L
Vanadium	No	EPA 200.8	0.01	mg/L

Constituent/Parameter	Field Filter	Analytical Method(1)	Reporting Limit(2)	Reporting Units
Zinc	No	EPA 200.7	0.02	mg/L

Radiological

Constituent/Parameter	Field Filter	Analytical Method(1)	Reporting Limit(2)	Reporting Units
Uranium(5), Total	No	EPA 200.8	0.005	mg/L

Footnotes:

(1) The provided list is the most common analytical methods used for the constituents. A full list of methods can be found in 40 CFR Part 136 Table 1B. Verify if the method is certified by the State of Nevada, Bureau of Safe Drinking Water, Lab Certification Program.

(2) Samples requiring dilution may result in higher reporting limits for the respective parameter.

(3) Acidity shall be analyzed when the pH is less than or equal to 5 standard units (S.U.).

(4) Alkalinity (Bicarbonate and Total) shall be analyzed when pH is greater than or equal to 4.5 S.U.

(5) If Uranium is greater than or equal to 0.03 mg/L then the Division will require an analysis of the sample for Profile R, which can be found on the Division's website at: https://ndep.nv.gov/land/mining.

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