



24 August 2021

To: Water Pollution Control Permittees

From: Aimee Keys, Chief
Bureau of Mining Regulation and Reclamation

Re: Update and Revision: Modification to Profile I Parameter list

On 1 July 2021, the Bureau of Mining Regulation and Reclamation (BMRR) issued a memo titled “Modification to Profile I Parameter List” describing addition of Uranium (total) to the Profile I parameter list.

This update is being issued to revise and supersede the BMRR’s 1 July 2021 notification regarding the Profile I as follows:

Effective 1 January 2022, BMRR is revising the Profile I parameter list to include uranium (**dissolved**). This revision is a result of the BMRR beginning to collect background data for naturally occurring radioactive materials (NORMs).

The Profile I consists of the following parameters:

Dissolved metals, i.e. filtered at 0.45um, preserved, digested, and analyzed:

Alkalinity (as CaCO ₃)	Cadmium	Magnesium	Silver
Bicarbonate	Calcium	Manganese	Sodium
Total	Chloride	Mercury	Sulfate
Aluminum	Chromium	Nitrate + Nitrite (as N)	Thallium
Antimony	Copper	Nitrogen, Total (as N)	Total Dissolved Solids
Arsenic	Fluoride	pH (± 0.1 SU)	Uranium
Barium	Iron	Potassium	WAD Cyanide
Beryllium	Lead	Selenium	Zinc

The following criteria for uranium analysis apply:

If results of the uranium (dissolved) analyses indicate a concentration ≥ 0.010 mg/L, the Division will then require uranium analysis as total recoverable content, i.e., unfiltered, preserved and digested as required per method specifics.

If the total uranium analyses indicate a concentration ≥ 0.030 mg/L, the Division will require a Profile I-R analysis.

The complete Profile I and Profile I-R parameter lists including reference values can be found on the Division website at:

<https://ndep.nv.gov/land/mining/regulation/guidance-policies-references-and-requirements>

If you have any questions regarding his notification, please contact Karl McCrea, (775) 687-9407, kmccrea@ndep.nv.gov.