

**Table 1-1**  
**Groundwater Standards for**  
**Inorganic Compounds**

2015 BNL Groundwater Status Report

| CHEMICAL<br>CONSTITUENT | CAS #      | NYS AMBIENT WATER<br>QUALITY STANDARDS<br>AND GUIDANCE VALUES (a)<br>µg/L | FEDERAL DRINKING<br>WATER STANDARDS (b)<br>µg/L |
|-------------------------|------------|---|---|
| <i>Inorganics</i>       |            |   |   |
| Aluminum                | 7429-90-5  | -   | 200 (c)   |
| Antimony                | 7440-36-0  | 3   | 6   |
| Arsenic                 | 7440-38-2  | 25  | 10  |
| Barium                  | 7440-39-3  | 1000  | 2000  |
| Beryllium               | 7440-41-7  | 3   | 4   |
| Cadmium                 | 7440-43-9  | 5   | 5   |
| Calcium                 | 7440-70-2  | -   | -   |
| Chromium                | 7440-47-3  | 50  | 100   |
| Cobalt                  | 7440-48-4  | -   | -   |
| Copper                  | 7440-50-8  | 200   | 1300  |
| Cyanide                 | 57-12-5    | 200   | 200   |
| Iron                    | 7439-89-6  | 300   | 300 (c)   |
| Lead                    | 7439-92-1  | 25  | 15  |
| Magnesium               | 7439-95-4  | 35000   | -   |
| Manganese               | 7439-96-5  | 300   | 50 (c)  |
| Mercury                 | 7439-97-6  | 0.7   | 2   |
| Nickel                  | 7440-02-0  | 100   | 100   |
| Potassium               | 7440-09-7  | -   | -   |
| Selenium                | 7782-49-2  | 10  | 50  |
| Silver                  | 7440-22-4  | 50  | 100   |
| Sodium                  | 7440-23-5  | 20000   | -   |
| Thallium                | 7440-28-0  | 0.5   | 2   |
| Vanadium                | 7440-62-2  | -   | -   |
| Zinc                    | 7440-66-6  | 2000  | 5000 (c)  |
| Hexavalent Chromium     | 18540-29-9 | 50  | -   |

**Notes:**

- No standard available
- (a) NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.
- (b) USEPA February 1996, Drinking Water Regulations and Health Advisories. Note that the information under MCL was converted from mg/l to µg/L in order to maintain uniform units for this table.
- (c) Listed standard represents a secondary MCL, which has been developed to control the aesthetic quality of drinking water only.

NYSDEC = New York State Department of Environmental Conservation

µg/L = micrograms per liter (ppb)

mg/L = milligrams per liter (ppm)

MCL = Maximum Contaminant Level

USEPA = United States Environmental Protection Agency