

2025 Environmental Dashboard: Toronto (Uranium)

At BWXT Nuclear Energy Canada's (BWXT) Toronto facility, air and water emissions are continuously measured for the presence of uranium and results show the 1025 Lansdowne Avenue facility has very low emissions.

Airborne and liquid effluent discharged from a fuel fabrication facility like BWXT are regulated by concentration limits. Action Levels and our own internal limits are set at just a fraction of the Licence Release Limits, which are set by the Canadian Nuclear Safety Commission (CNSC), to keep public exposure to any radiation as low as possible. Although Action Levels are set below Licence Release Limits, exceeding an Action Level is considered a CNSC reportable event in which BWXT must notify the Commission within 24 hours of becoming aware that an Action Level has been exceeded. Accordingly, BWXT has established Internal Control Levels for various radiological and environmental parameters that are set even lower than Action Levels to act as an early warning system. An Internal Control Level exceedance results in internal investigation and corrective and preventive action.

Water: Water is used in the production process and to clean protective clothing, floors and other janitorial functions. The water is first held in storage tanks at the facility, treated to remove uranium dioxide, tested and only released in batches once the test results confirm it meets release requirements. The Licence Release Limit for uranium water emissions is 1,000 mg/L (weekly composite) and the Action Level is 3 mg/L.

Air: The Toronto facility performs continuous in-stack sampling and boundary air monitoring for uranium:

- **Stack:** The facility performs continuous in-stack monitoring of its six stacks, drawing a sample of air across a filter capable of trapping uranium dust. The samples are analyzed in-house daily and verified externally by an independent laboratory. The Action Level is 1 $\mu\text{g}/\text{m}^3$ and the most conservative (lowest) Licence Release Limit for stack (air) uranium emissions of all six stacks is 47 $\mu\text{g}/\text{m}^3$.
- **Boundary:** Boundary samples are high volume air samples drawn at five positions strategically located around the facility perimeter. Boundary samples are analyzed externally by an independent laboratory. In both cases the external independent laboratory tests the filter papers by delayed neutron activation analysis. The Action Level is 0.08 $\mu\text{g}/\text{m}^3$.

To continue to demonstrate transparency and provide information to the public, BWXT has developed this Environmental Dashboard to provide more detail on our low uranium emissions. This document will be updated throughout the year when new data becomes available.

For more information, please visit the [Environmental Monitoring](#) page of our website or refer to our Annual Compliance Reports, a thorough document submitted to the CNSC annually, which can be found on our website [here](#).

If you have any questions, please contact us at questions@bwxt.com or 1.855.696.9588 (toll-free).

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Water			
Status: no action level exceedances			
Week	Concentration (mg/L)	Licence Release Limit (mg/L)	Number of Action Level Exceedances
Jan 1	0.0004	1000	0
Jan 8	0.1280	1000	0
Jan 15	0.0956	1000	0
Jan 22	0.1150	1000	0
Jan 29	0.1610	1000	0
Feb 5	0.1570	1000	0
Feb 12	0.1300	1000	0
Feb 19	0.1140	1000	0
Feb 26	0.1450	1000	0
Mar 4	0.1370	1000	0
Mar 11	0.0991	1000	0
Mar 18	0.2580	1000	0
Mar 25	0.2640	1000	0
Apr 1	0.2440	1000	0
Apr 8	0.2650	1000	0
Apr 15	0.2200	1000	0
Apr 22	0.1820	1000	0
Apr 29	0.2220	1000	0
May 6	0.1260	1000	0
May 13	0.1130	1000	0
May 20	0.0278	1000	0
May 27	0.0852	1000	0
Jun 3	0.0631	1000	0
Jun 10	0.0434	1000	0
Jun 17	0.1250	1000	0
Jun 24	0.1400	1000	0
Jul 1	0.0865	1000	0
Jul 8	0.0683	1000	0
Jul 15	0.0535	1000	0
Jul 22	0.1250	1000	0
Jul 29	0.1260	1000	0
Aug 5	0.1330	1000	0
Aug 12	0.0858	1000	0
Aug 19	0.1940	1000	0
Aug 26	0.1680	1000	0
Sep 2	0.1210	1000	0
Sep 9	0.1100	1000	0
Sep 16	0.0864	1000	0
Sep 23	0.0959	1000	0
Sep 30	0.1090	1000	0
Oct 7	0.0931	1000	0
Oct 14	0.3050	1000	0
Oct 21	0.2350	1000	0
Oct 28	0.0981	1000	0
Nov 4	0.1050	1000	0
Nov 11	0.0995	1000	0
Nov 18	0.1210	1000	0
Nov 25	0.1910	1000	0
Dec 2	0.1590	1000	0
Dec 9	0.0664	1000	0
Dec 16	0.1060	1000	0
Dec 23	0.2100	1000	0
Dec 30	0.1090	1000	0

Stack (Air)			
Status: no action level exceedances			
Week	Average Concentration (µg/m ³)	Licence Release Limit (µg/m ³)	Number of Action Level Exceedances
Jan 1	0.0103	47	0
Jan 8	0.0175	47	0
Jan 15	0.0212	47	0
Jan 22	0.0241	47	0
Jan 29	0.0348	47	0
Feb 5	0.0262	47	0
Feb 12	0.0326	47	0
Feb 19	0.0186	47	0
Feb 26	0.0153	47	0
Mar 4	0.0251	47	0
Mar 11	0.0204	47	0
Mar 18	0.0177	47	0
Mar 25	0.0203	47	0
Apr 1	0.0250	47	0
Apr 8	0.0182	47	0
Apr 15	0.0171	47	0
Apr 22	0.0145	47	0
Apr 29	0.0263	47	0
May 6	0.0158	47	0
May 13	0.0155	47	0
May 20	0.0146	47	0
May 27	0.0182	47	0
Jun 3	0.0149	47	0
Jun 10	0.0137	47	0
Jun 17	0.0140	47	0
Jun 24	0.0182	47	0
Jul 1	0.0226	47	0
Jul 8	0.0157	47	0
Jul 15	0.0240	47	0
Jul 22	0.0148	47	0
Jul 29	0.0191	47	0
Aug 5	0.0037	47	0
Aug 12	0.0294	47	0
Aug 19	0.0172	47	0
Aug 26	0.0087	47	0
Sep 2	0.0074	47	0
Sep 9	0.0093	47	0
Sep 16	0.0100	47	0
Sep 23	0.0091	47	0
Sep 30	0.0097	47	0
Oct 7	0.0213	47	0
Oct 14	0.0079	47	0
Oct 21	0.0079	47	0
Oct 28	0.0108	47	0
Nov 4	0.0131	47	0
Nov 11	0.0140	47	0
Nov 18	0.0092	47	0
Nov 25	0.0179	47	0
Dec 2	0.0124	47	0
Dec 9	0.0136	47	0
Dec 16	0.0146	47	0
Dec 23	0.0228	47	0
Dec 30	0.0097	47	0

Boundary (Air)			
Status: no action level exceedances			
Week	Average Concentration (µg/m ³)	Action Level (µg/m ³)	Number of Action Level Exceedances
Jan 1	0.0001	0.08	0
Jan 8	0.0001	0.08	0
Jan 15	0.0001	0.08	0
Jan 22	0.0001	0.08	0
Jan 29	0.0001	0.08	0
Feb 5	0.0001	0.08	0
Feb 12	0.0007	0.08	0
Feb 19	0.0002	0.08	0
Feb 26	0.0002	0.08	0
Mar 4	0.0001	0.08	0
Mar 11	0.0001	0.08	0
Mar 18	0.0002	0.08	0
Mar 25	0.0004	0.08	0
Apr 1	0.0002	0.08	0
Apr 8	0.0001	0.08	0
Apr 15	0.0001	0.08	0
Apr 22	0.0001	0.08	0
Apr 29	0.0002	0.08	0
May 6	0.0001	0.08	0
May 13	0.0001	0.08	0
May 20	0.0001	0.08	0
May 27	0.0001	0.08	0
Jun 3	0.0001	0.08	0
Jun 10	0.0001	0.08	0
Jun 17	0.0001	0.08	0
Jun 24	0.0001	0.08	0
Jul 1	0.0001	0.08	0
Jul 8	0.0001	0.08	0
Jul 15	0.0001	0.08	0
Jul 22	0.0001	0.08	0
Jul 29	0.0001	0.08	0
Aug 5	0.0001	0.08	0
Aug 12	0.0002	0.08	0
Aug 19	0.0003	0.08	0
Aug 26	0.0001	0.08	0
Sep 2	0.0002	0.08	0
Sep 9	0.0002	0.08	0
Sep 16	0.0002	0.08	0
Sep 23	0.0001	0.08	0
Sep 30	0.0001	0.08	0
Oct 7	0.0001	0.08	0
Oct 14	0.0001	0.08	0
Oct 21	0.0001	0.08	0
Oct 28	0.0001	0.08	0
Nov 4	0.0001	0.08	0
Nov 11	0.0001	0.08	0
Nov 18	0.0001	0.08	0
Nov 25	0.0001	0.08	0
Dec 2	0.0001	0.08	0
Dec 9	0.0001	0.08	0
Dec 16	0.0002	0.08	0
Dec 23	0.0001	0.08	0
Dec 30	0.0001	0.08	0

Note: if you would like the Dashboard table in .xls format (Excel), please email us at questions@bwxt.com