2025 Environmental Dashboard: Toronto (Uranium)

At BWXT Nuclear Energy Canada Inc.'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 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 ug/m3 and the most conservative (lowest) Licence Release Limit for stack (air) uranium emissions of all six stacks is 47 µg/m^3.
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> **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 µg/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	–	1000	–
Apr 1		1000	
Apr 8		1000	
Apr 15		1000	
Apr 22		1000	
Apr 29		1000	
May 6		1000	
May 13		1000	
May 20		1000	
May 27		1000	
Jun 3		1000	
Jun 10		1000	
Jun 17		1000	
Jun 24		1000	
Jul 1		1000	
Jul 8		1000	
Jul 15		1000	
Jul 22		1000	
Jul 29		1000	
Aug 5		1000	
Aug 12		1000	
Aug 19		1000	
Aug 26		1000	
Sep 2		1000	
Sep 9		1000	
Sep 16		1000	
Sep 23		1000	
Sep 30		1000	
Oct 7		1000	
Oct 14		1000	
Oct 21		1000	
Oct 28		1000	
Nov 4		1000	
Nov 11		1000	
Nov 18		1000	
Nov 25		1000	
Dec 2		1000	
Dec 9		1000	
Dec 16		1000	
Dec 23		1000	
Dec 30			

Stack (Air)			
Status: no action level exceedances			
Week	Average Concentration (µg/m³)	Licence Release Limit (µg/m³)	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	–	47	–
Apr 1		47	
Apr 8		47	
Apr 15		47	
Apr 22		47	
Apr 29		47	
May 6		47	
May 13		47	
May 20		47	
May 27		47	
Jun 3		47	
Jun 10		47	
Jun 17		47	
Jun 24		47	
Jul 1		47	
Jul 8		47	
Jul 15		47	
Jul 22		47	
Jul 29		47	
Aug 5		47	
Aug 12		47	
Aug 19		47	
Aug 26		47	
Sep 2		47	
Sep 9		47	
Sep 16		47	
Sep 23		47	
Sep 30		47	
Oct 7		47	
Oct 14		47	
Oct 21		47	
Oct 28		47	
Nov 4		47	
Nov 11		47	
Nov 18		47	
Nov 25		47	
Dec 2		47	
Dec 9		47	
Dec 16		47	
Dec 23		47	
Dec 30			

Boundary (Air)			
Status: no action level exceedances			
Week	Average Concentration (µg/m³)	Action Level (µg/m³)	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	–	0.08	–
Apr 1		0.08	
Apr 8		0.08	
Apr 15		0.08	
Apr 22		0.08	
Apr 29		0.08	
May 6		0.08	
May 13		0.08	
May 20		0.08	
May 27		0.08	
Jun 3		0.08	
Jun 10		0.08	
Jun 17		0.08	
Jun 24		0.08	
Jul 1		0.08	
Jul 8		0.08	
Jul 15		0.08	
Jul 22		0.08	
Jul 29		0.08	
Aug 5		0.08	
Aug 12		0.08	
Aug 19		0.08	
Aug 26		0.08	
Sep 2		0.08	
Sep 9		0.08	
Sep 16		0.08	
Sep 23		0.08	
Sep 30		0.08	
Oct 7		0.08	
Oct 14		0.08	
Oct 21		0.08	
Oct 28		0.08	
Nov 4		0.08	
Nov 11		0.08	
Nov 18		0.08	
Nov 25		0.08	
Dec 2		0.08	
Dec 9		0.08	
Dec 16		0.08	
Dec 23		0.08	
Dec 30			

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