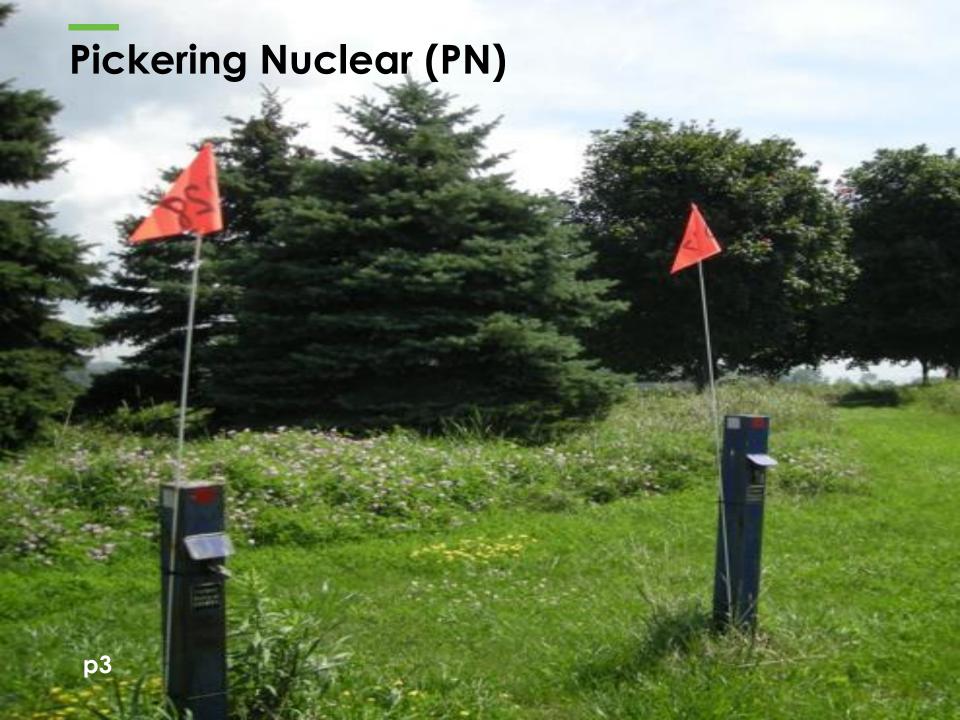
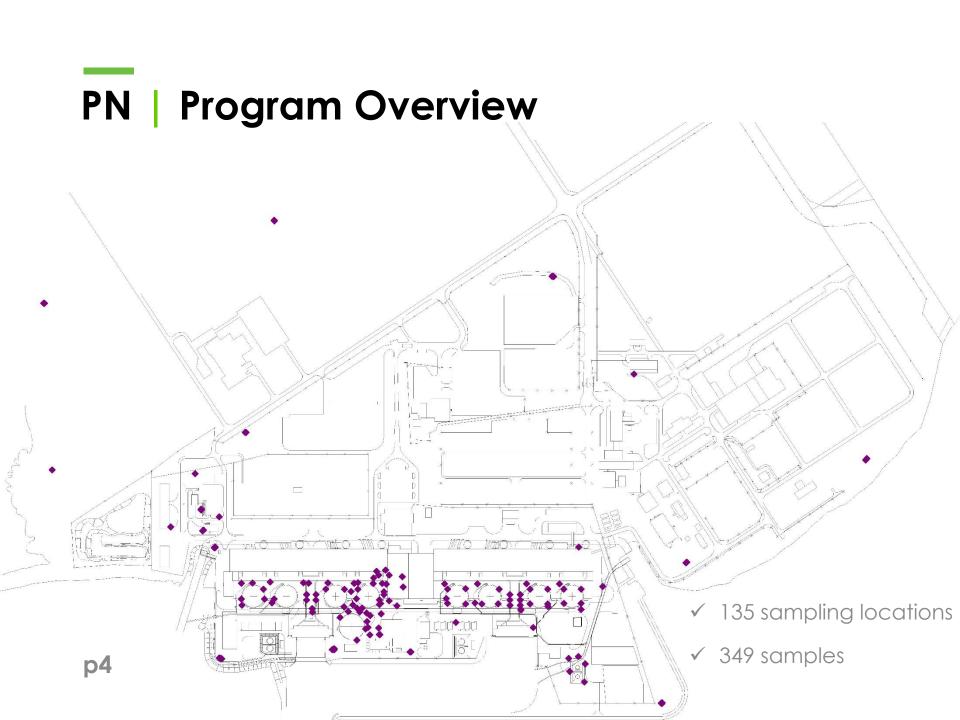


Annual Program Objectives

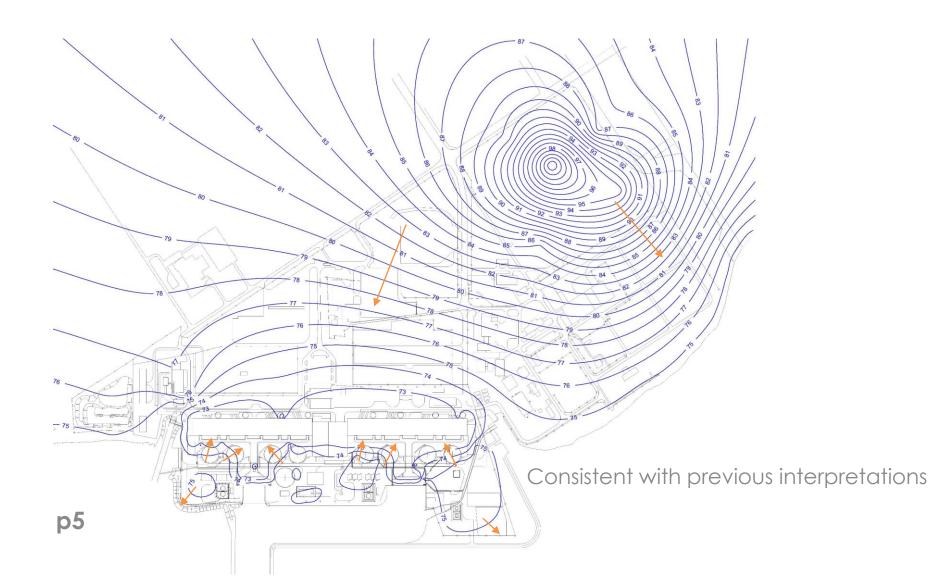
- Verify groundwater flow direction
- Monitor changes to on-site groundwater quality to identify new issues in a timely manner and assess historical issues
- Monitor groundwater quality at the site boundary to confirm there are no adverse off-site impacts



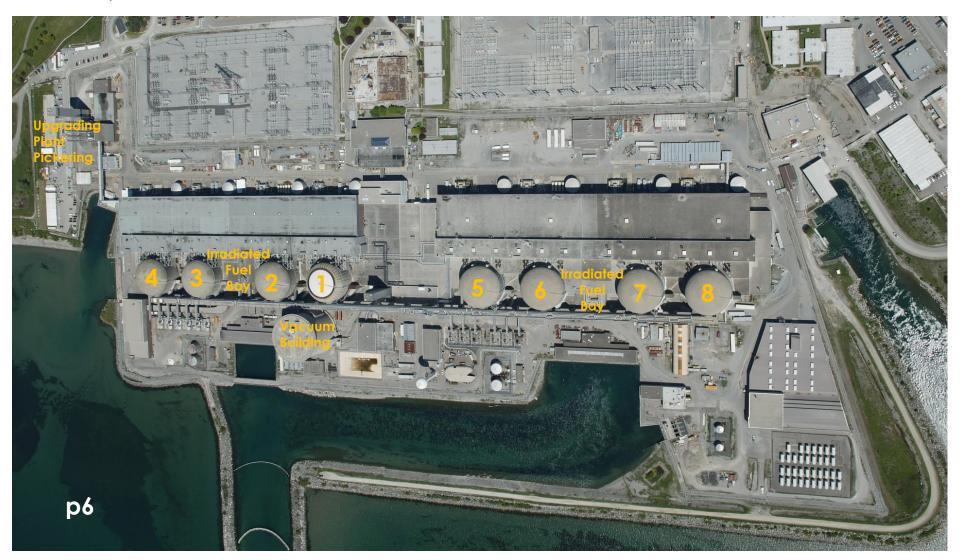




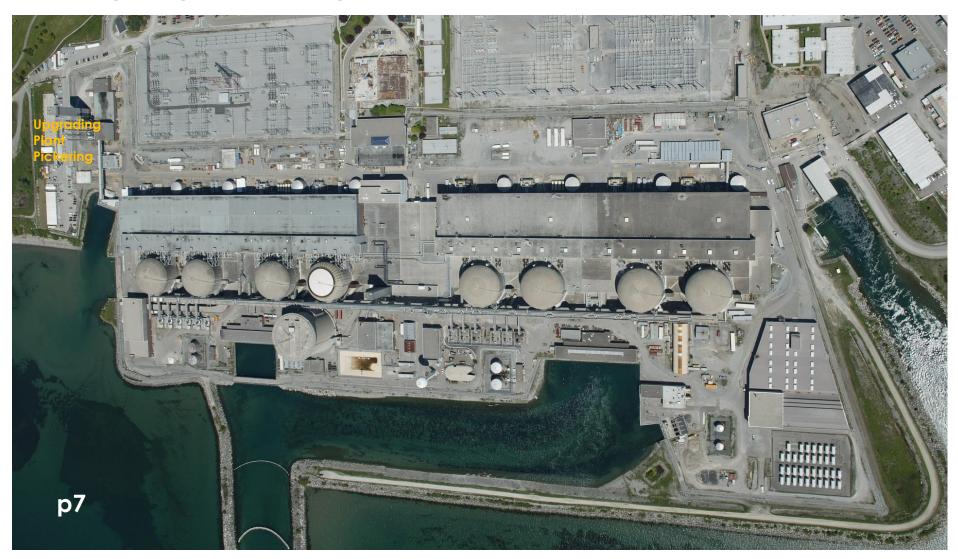
PN | Groundwater Flow Direction



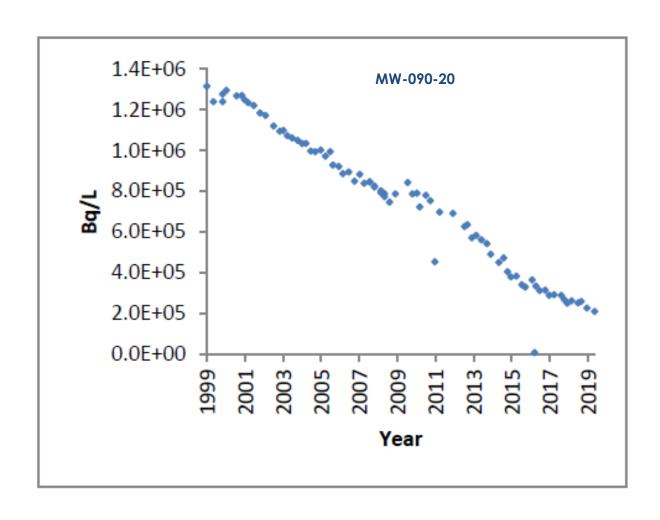
Key Areas Monitored



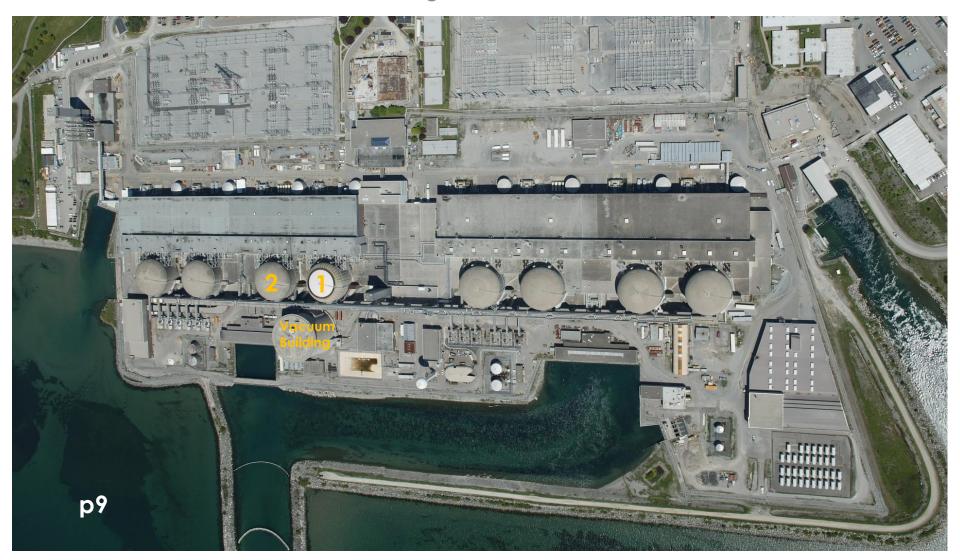
Upgrading Plant Pickering Area



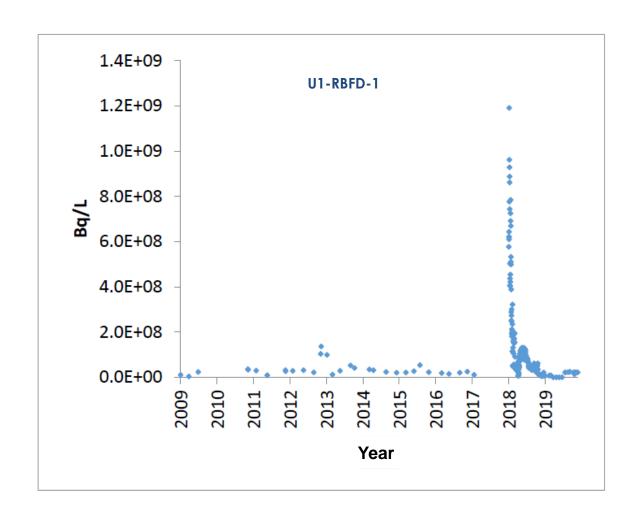
Upgrading Plant Pickering Area



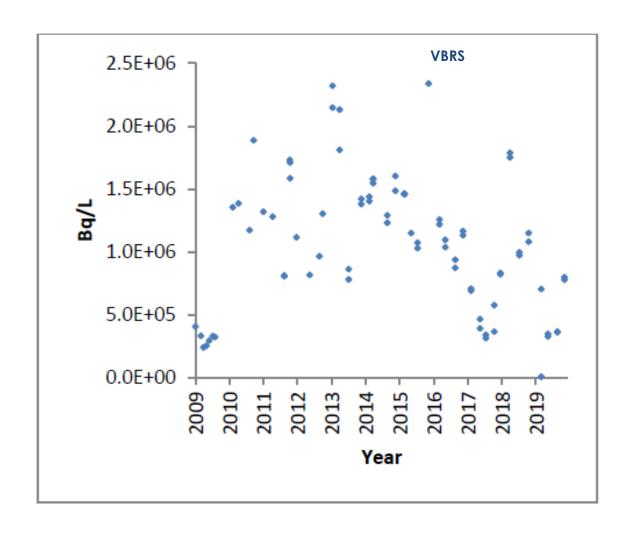
Unit 1, Unit 2, and Vacuum Building Areas

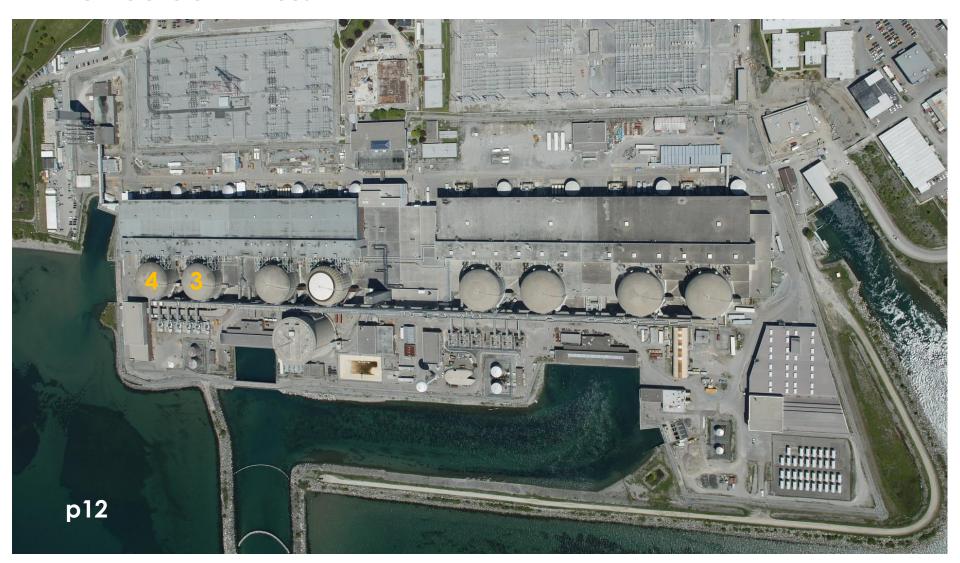


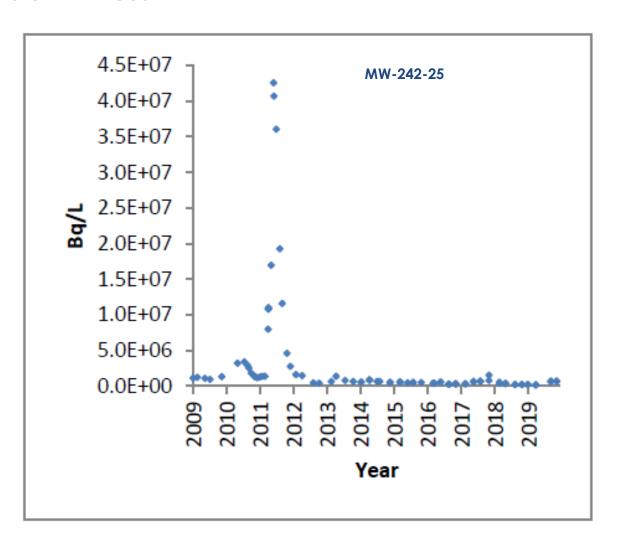
Unit 1, Unit 2, and Vacuum Building Areas



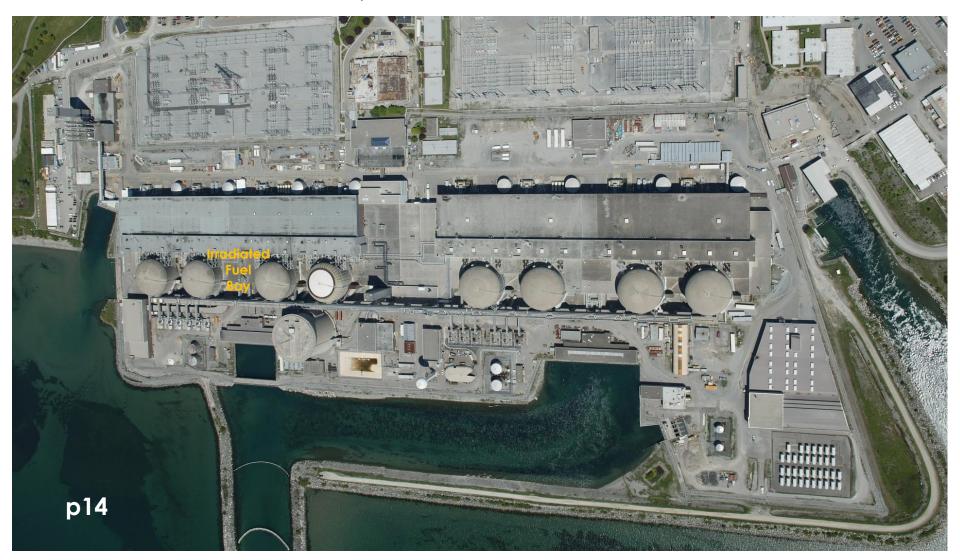
Unit 1, Unit 2, and Vacuum Building Areas



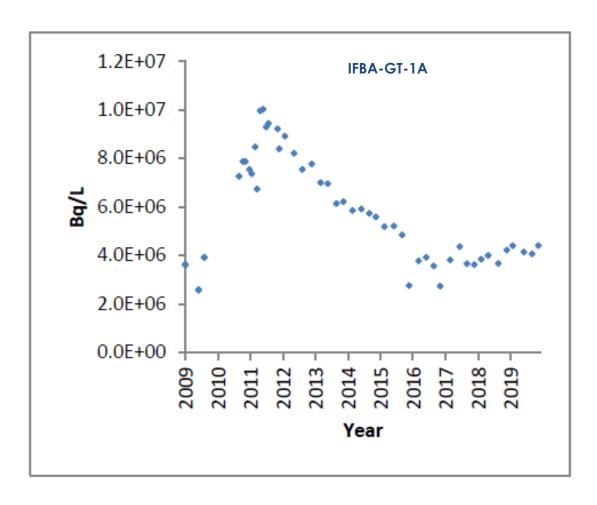


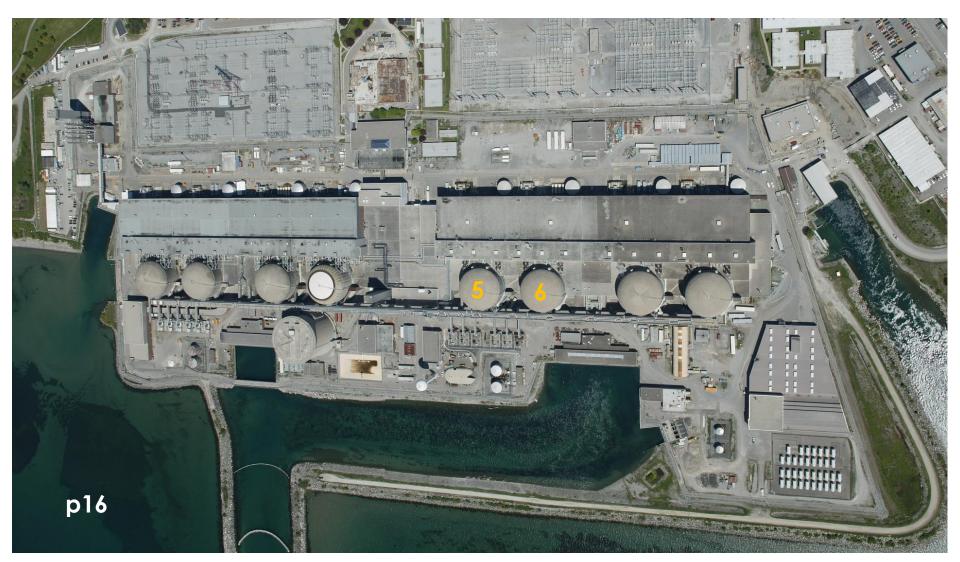


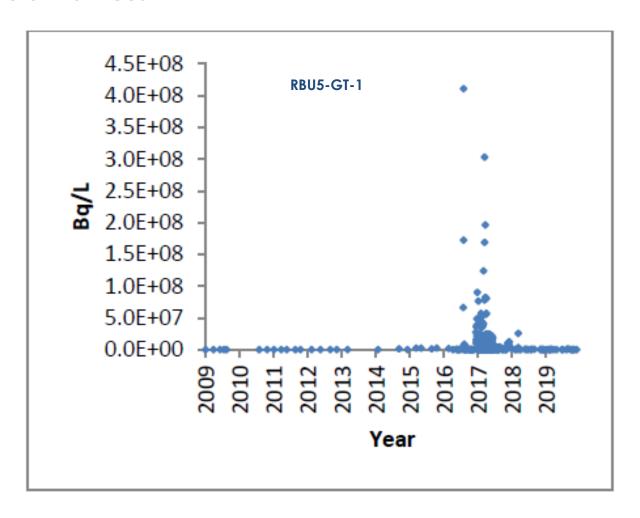
Unit 1 – 4 Irradiated Fuel Bay Area

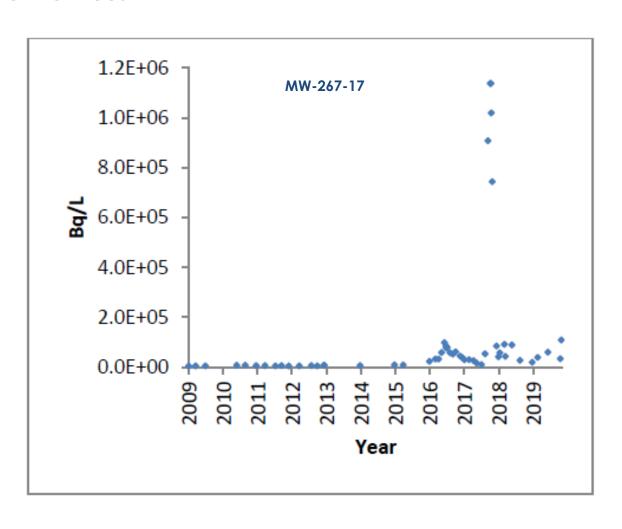


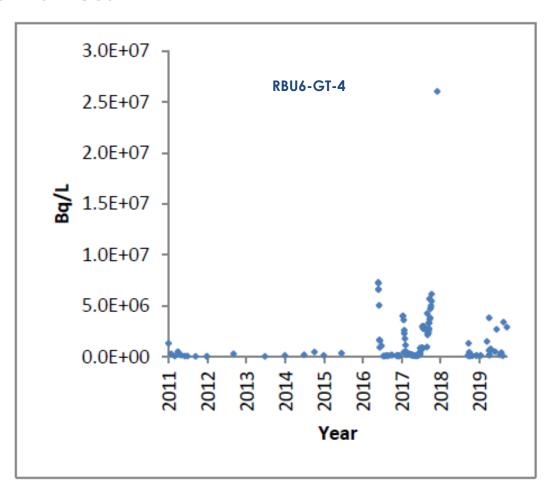
Unit 1 – 4 Irradiated Fuel Bay Area

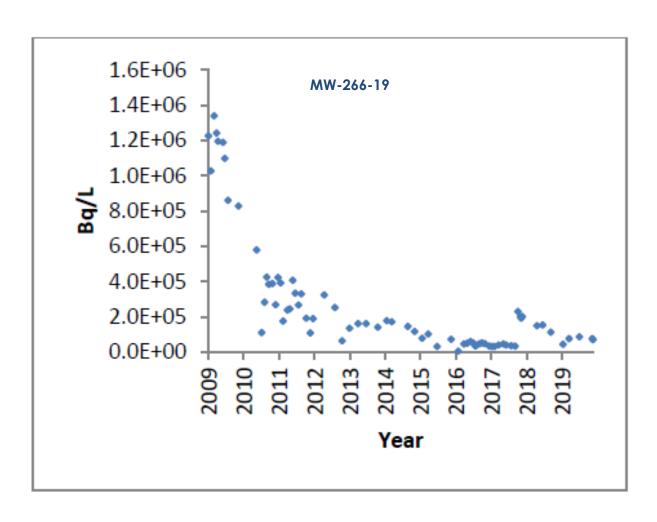


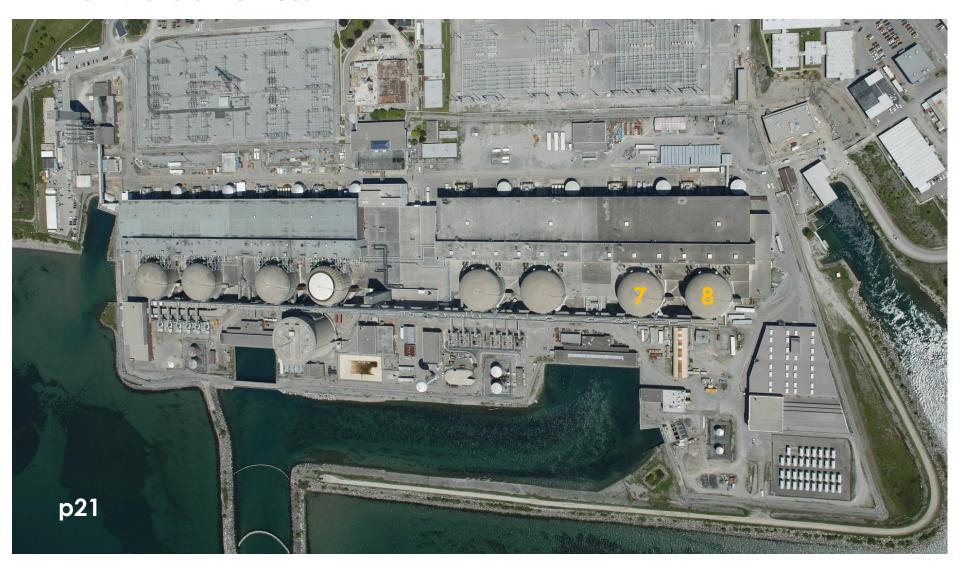


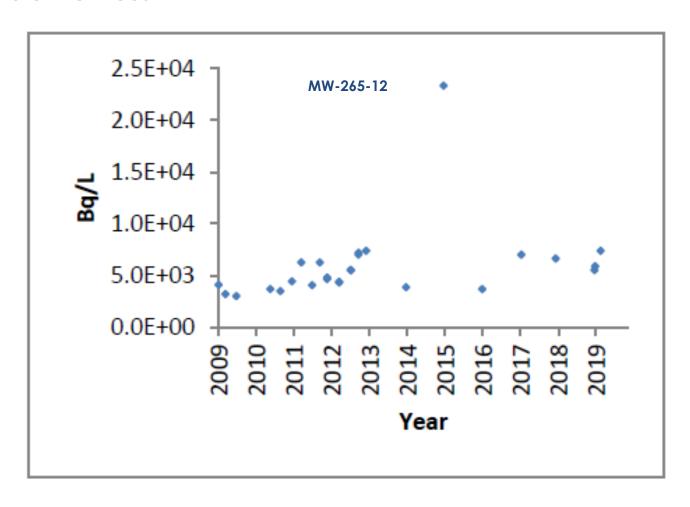






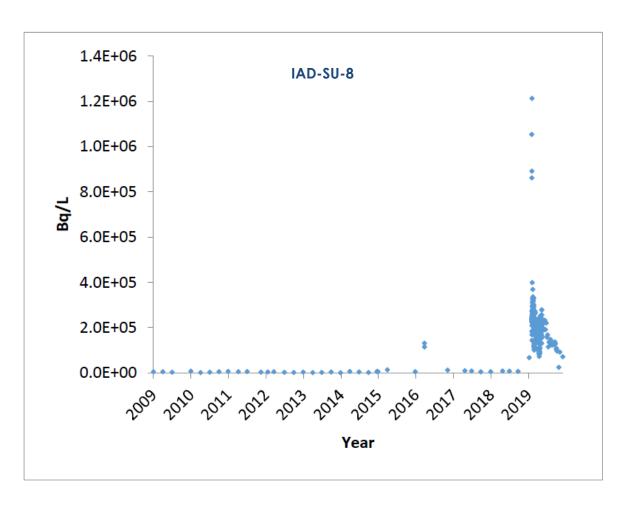




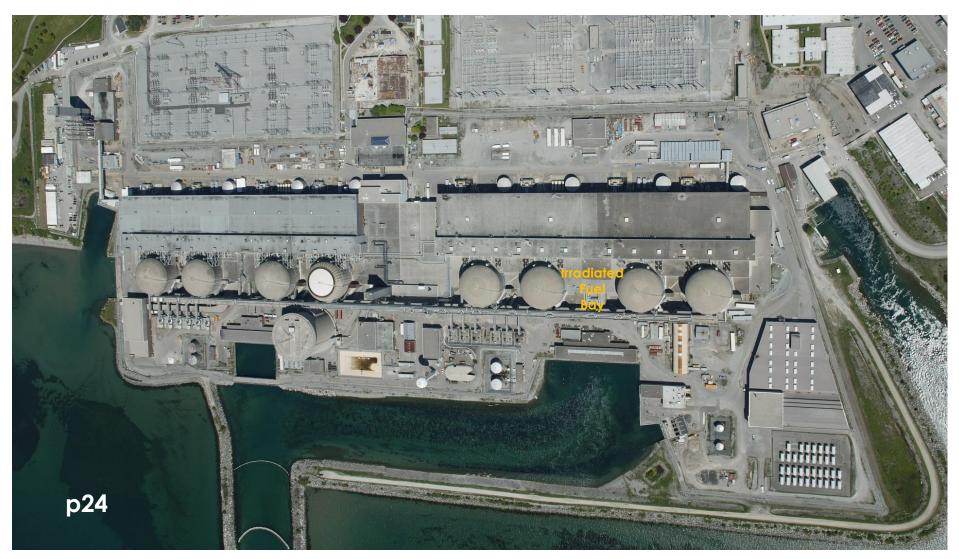


DNI I

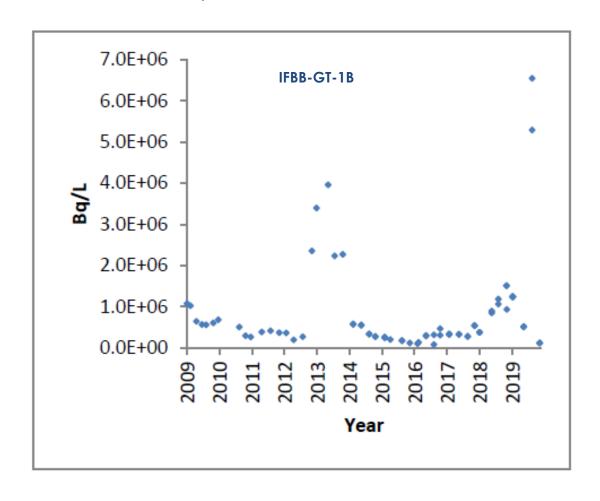
PN | Groundwater Quality



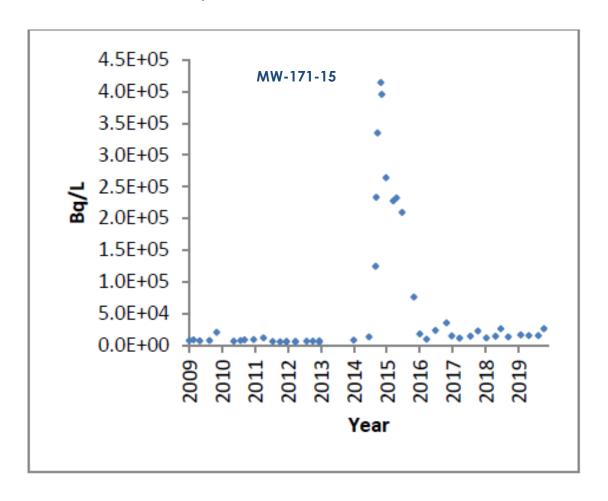
Unit 5 – 8 Irradiated Fuel Bay Area



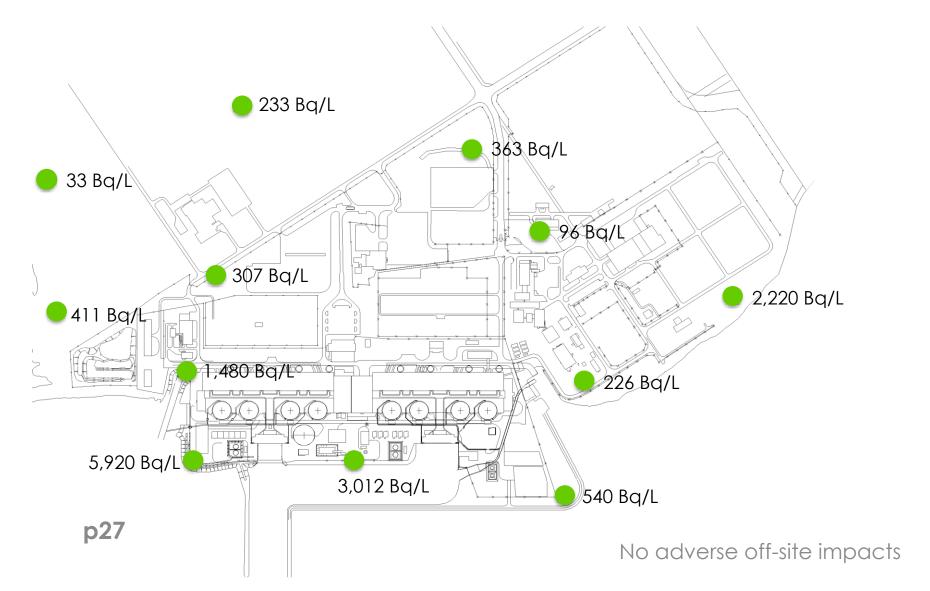
Unit 5 – 8 Irradiated Fuel Bay Area



Unit 5 – 8 Irradiated Fuel Bay Area

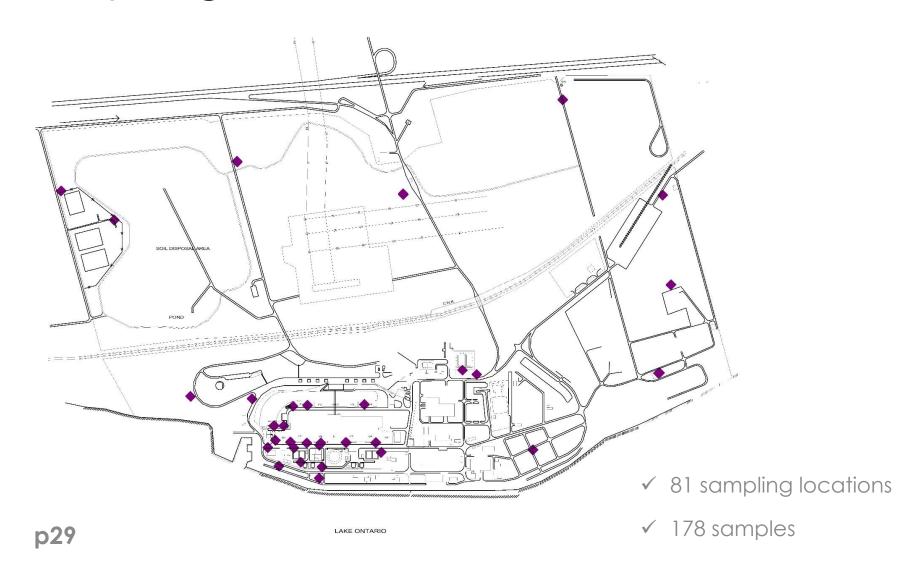


PN | Site Boundary Groundwater Quality

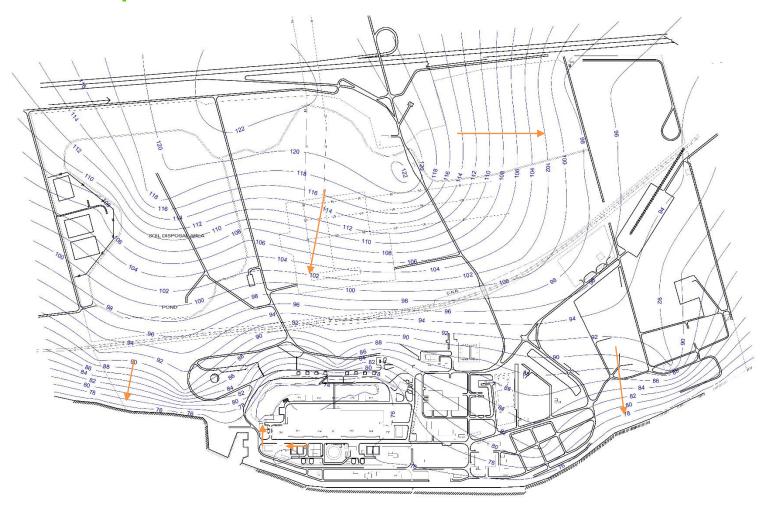




DN | Program Overview



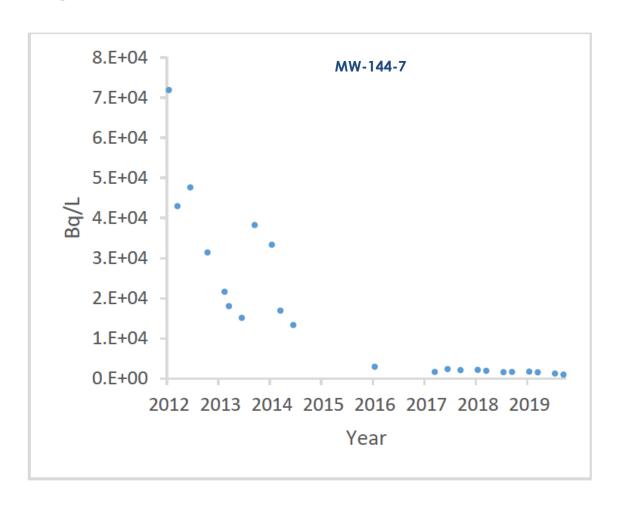
DN | Groundwater Flow Direction



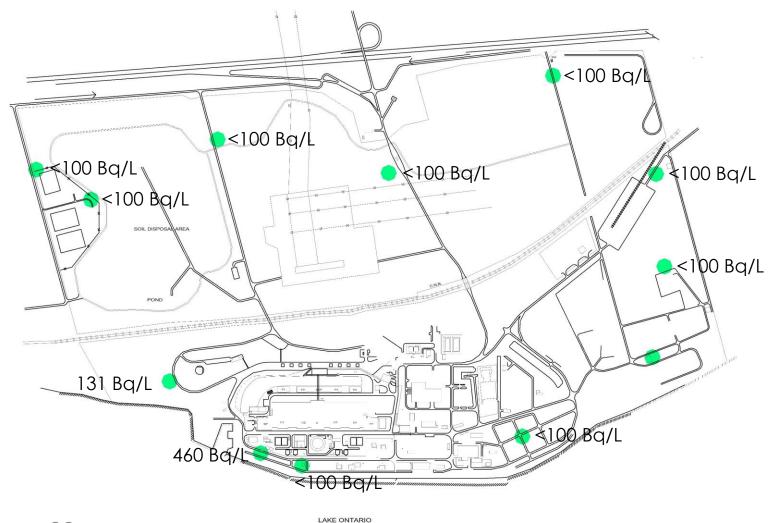
Reactor Building Area



Reactor Building Area



DN | Site Boundary Groundwater Quality



2019 Summary

- For both Pickering Nuclear and Darlington Nuclear, the groundwater flow patterns remain consistent with original interpretations
- Groundwater data collected from key areas indicate that tritium concentrations have remained constant or decreased, which indicate stable or improved environmental performance
 - There was an emerging groundwater matter identified at the PN Unit 8 area in 2019
 - Corrective actions undertaken to address the source and monitoring continues
- There were no indications of adverse off-site impacts from PN and DN groundwater



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