

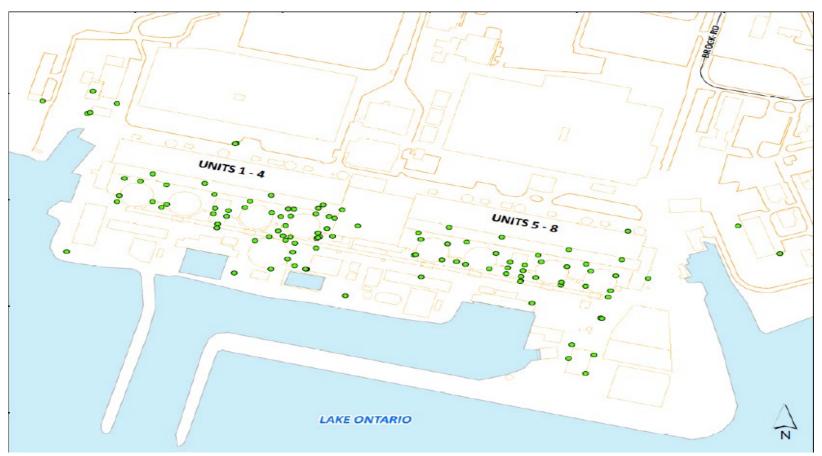
Annual Program Objectives

- 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 off-site impacts



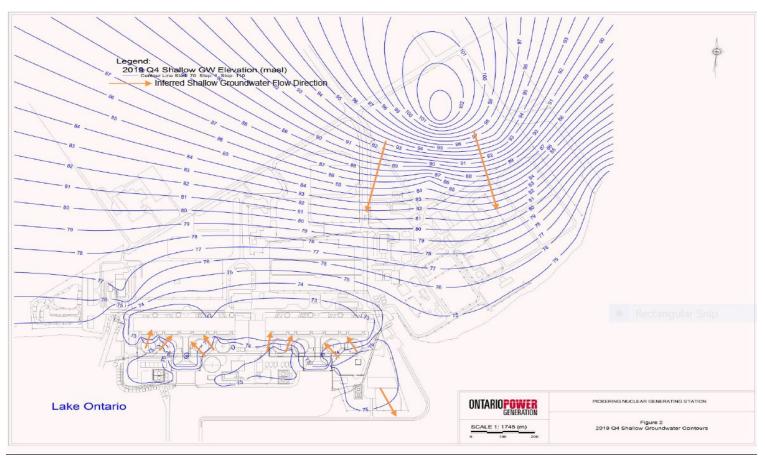


PN | Program Overview



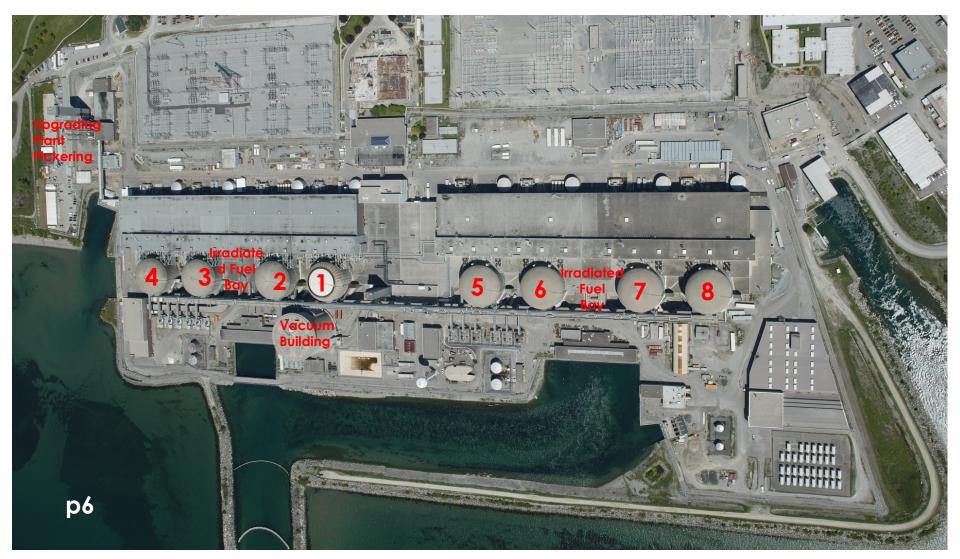
- √ 104 sampling locations
- ✓ 244 samples

PN | Groundwater Flow Direction

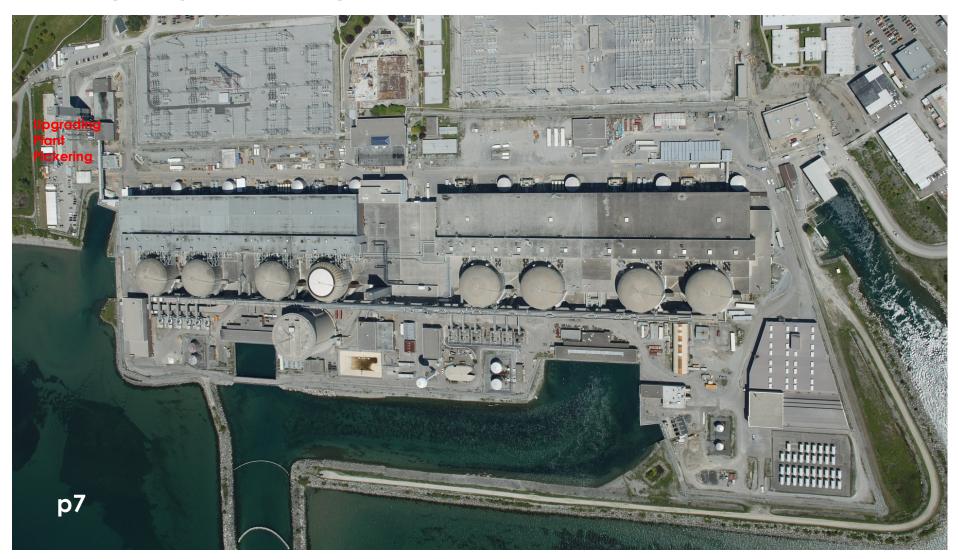


Consistent with previous interpretations

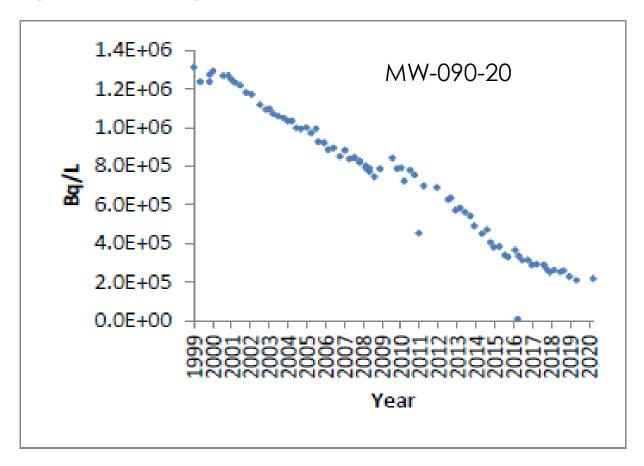
Key Areas Monitored



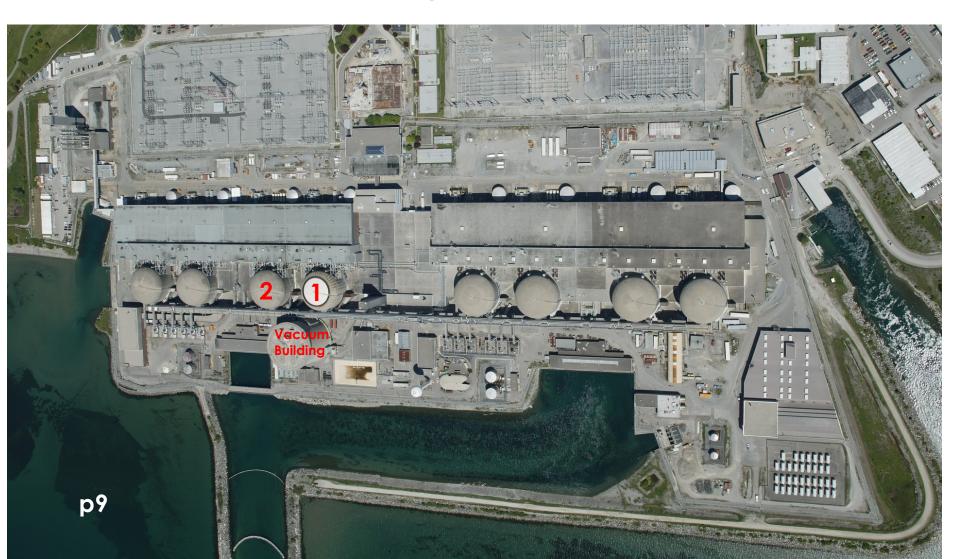
Upgrading Plant Pickering Area



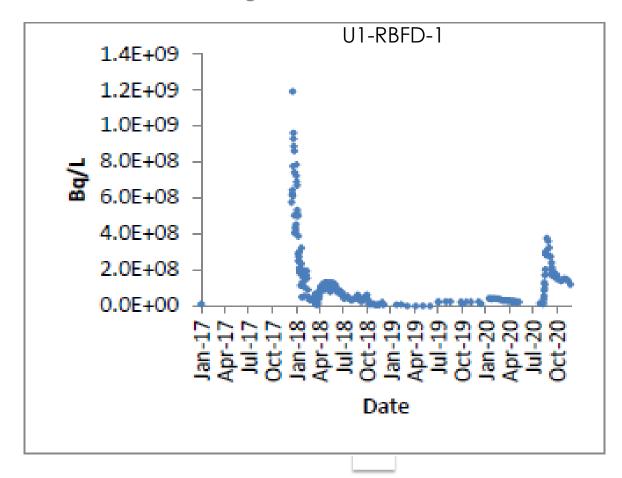
Upgrading Plant Pickering Area



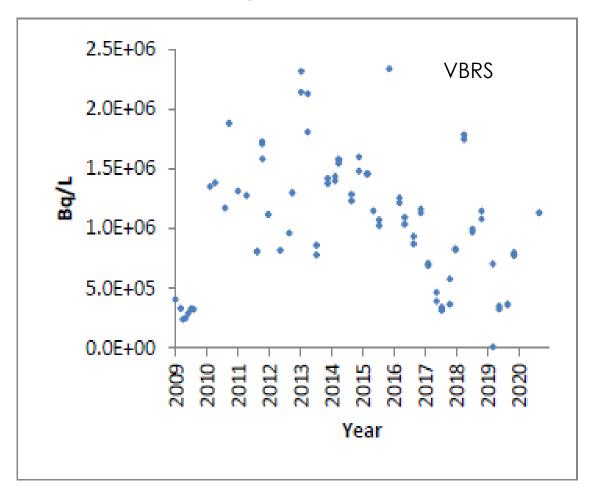
Unit 1, Unit 2, and Vacuum Building Areas

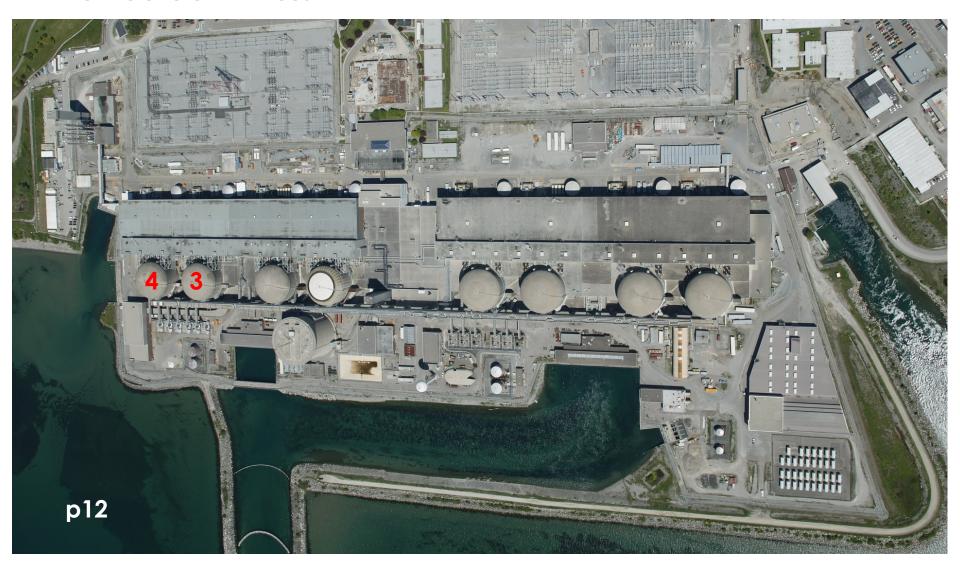


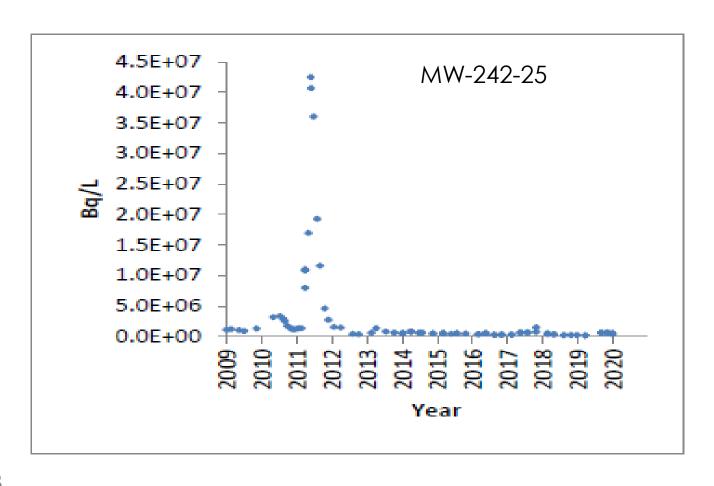
Unit 1, Unit 2, and Vacuum Building Areas



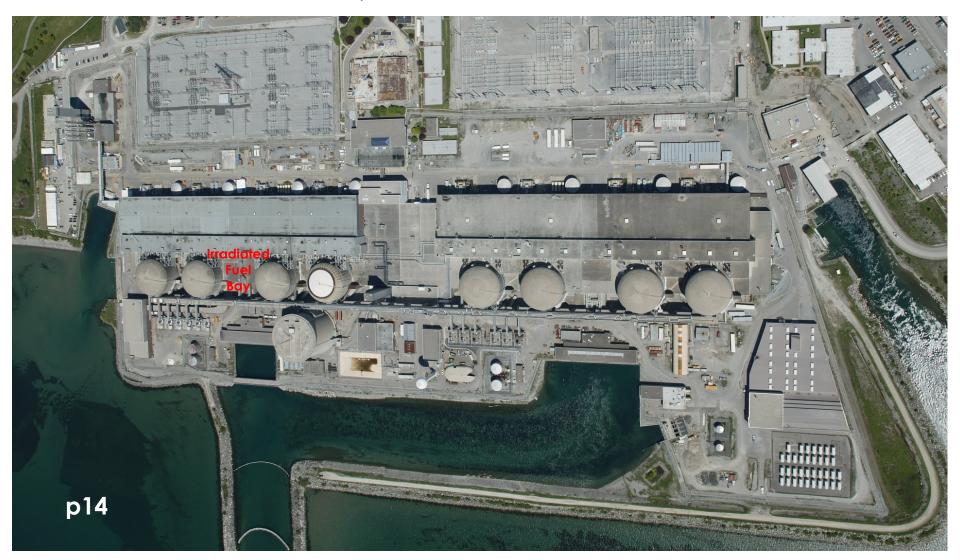
Unit 1, Unit 2, and Vacuum Building Areas



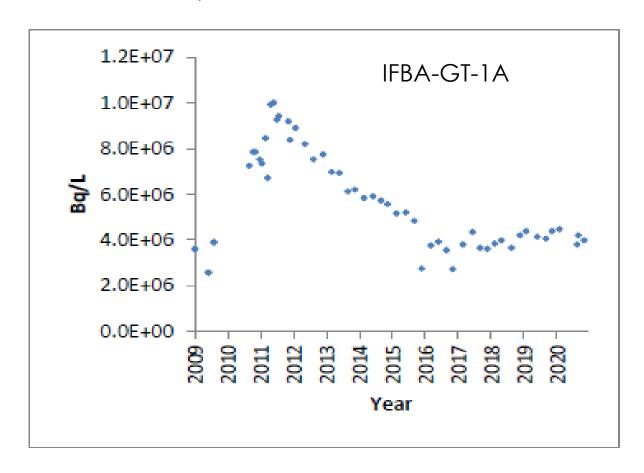


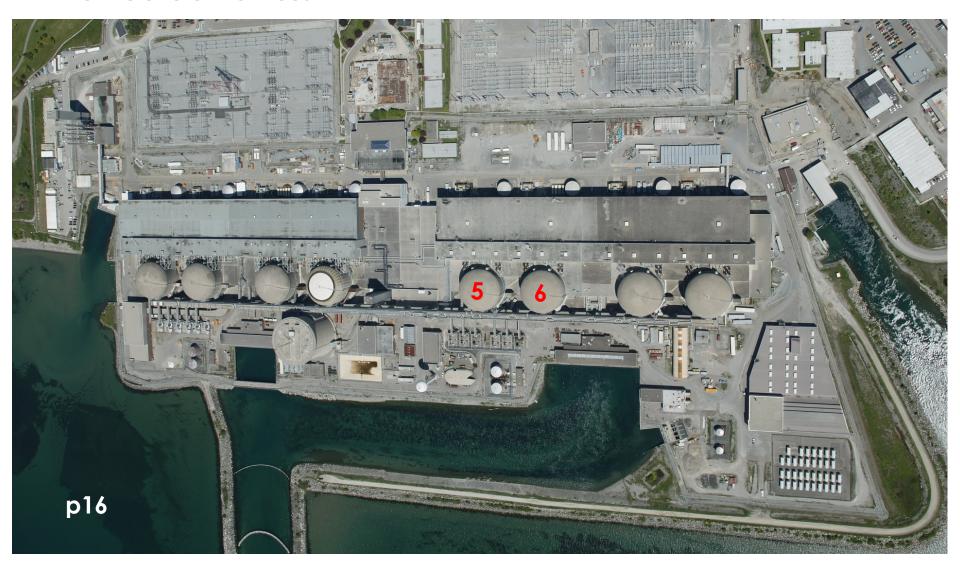


Unit 1 – 4 Irradiated Fuel Bay Area



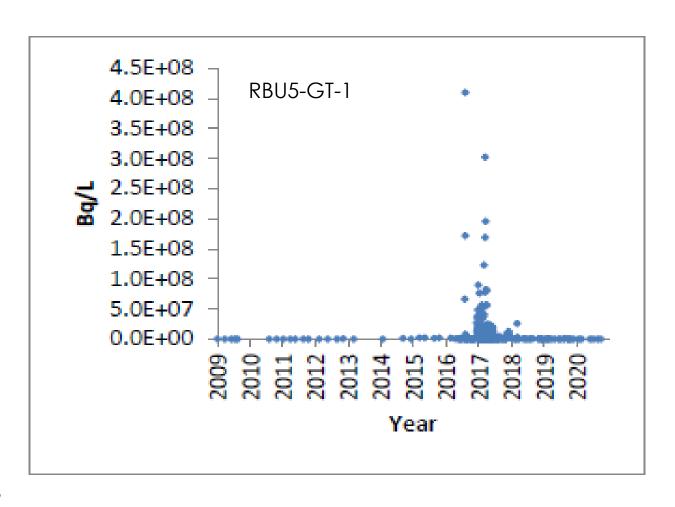
Unit 1 – 4 Irradiated Fuel Bay Area

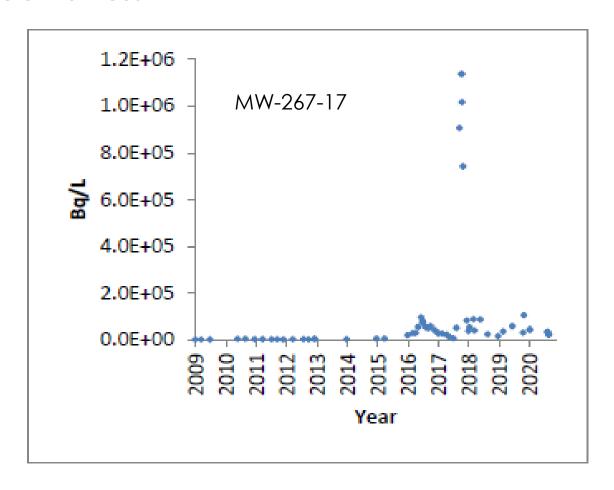


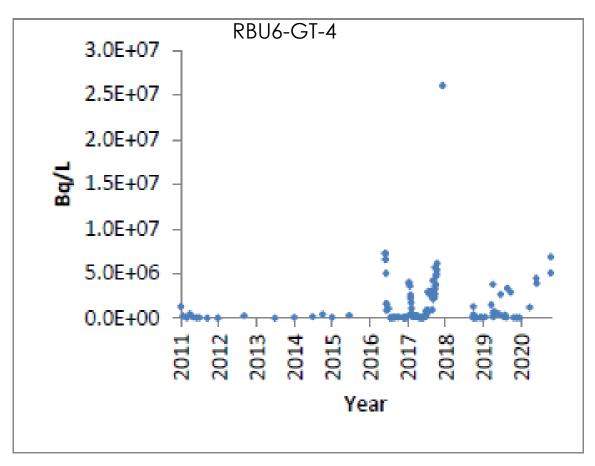


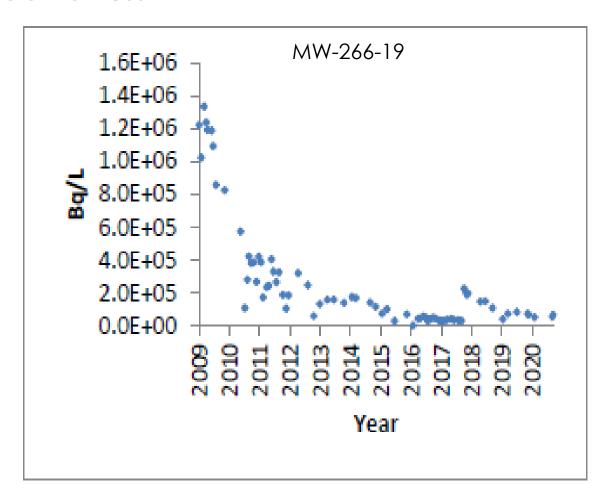
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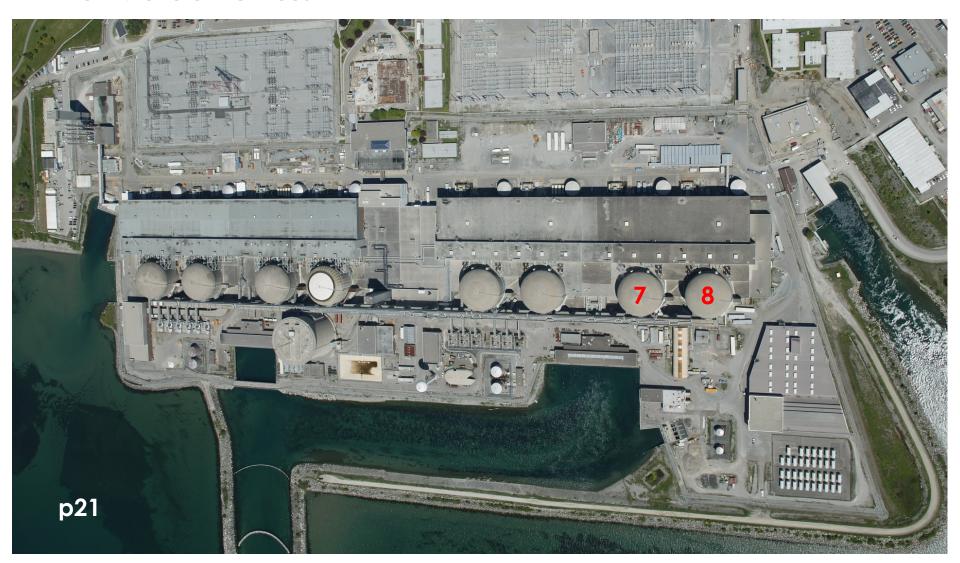
PN | Groundwater Quality

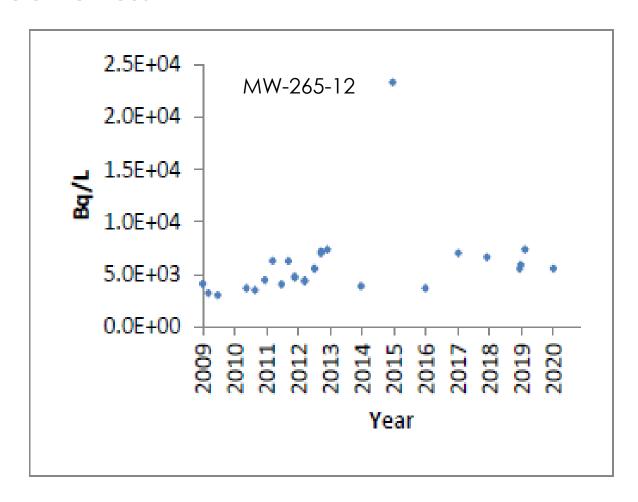


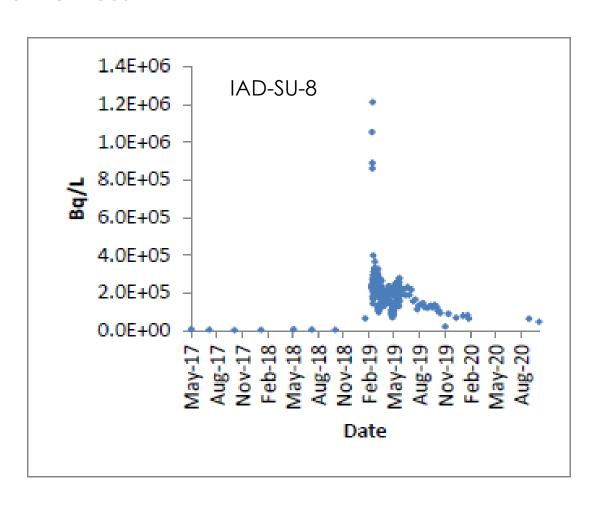




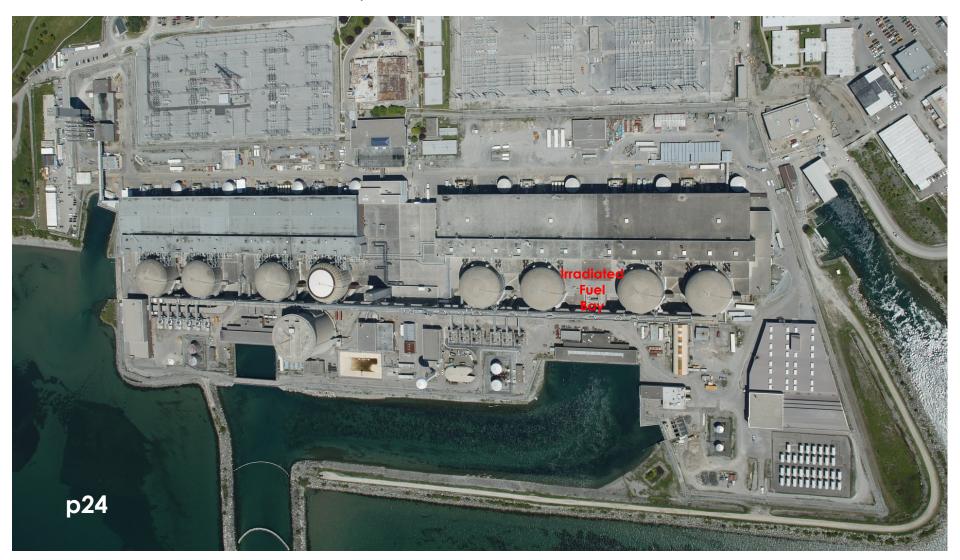








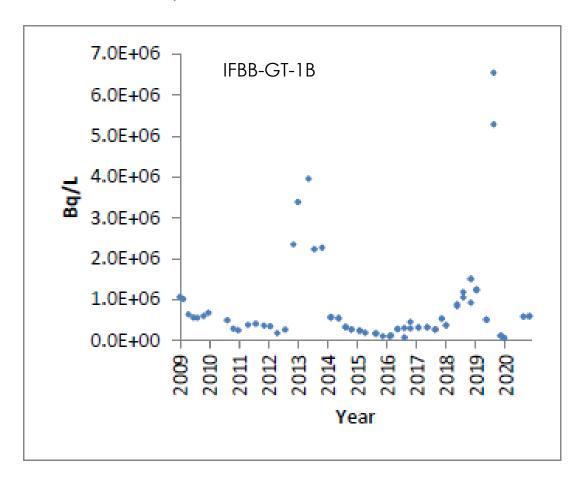
Unit 5 – 8 Irradiated Fuel Bay Area



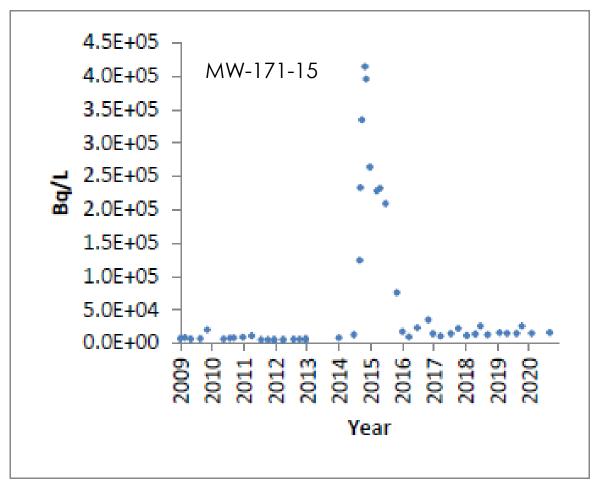
DN | Crou

PN | Groundwater Quality

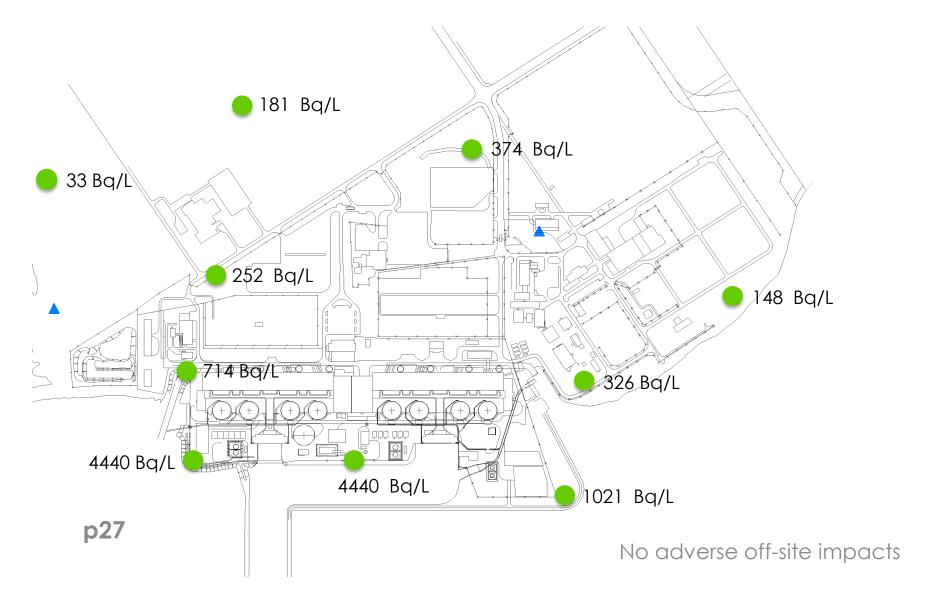
Unit 5 – 8 Irradiated Fuel Bay Area



Unit 5 – 8 Irradiated Fuel Bay Area

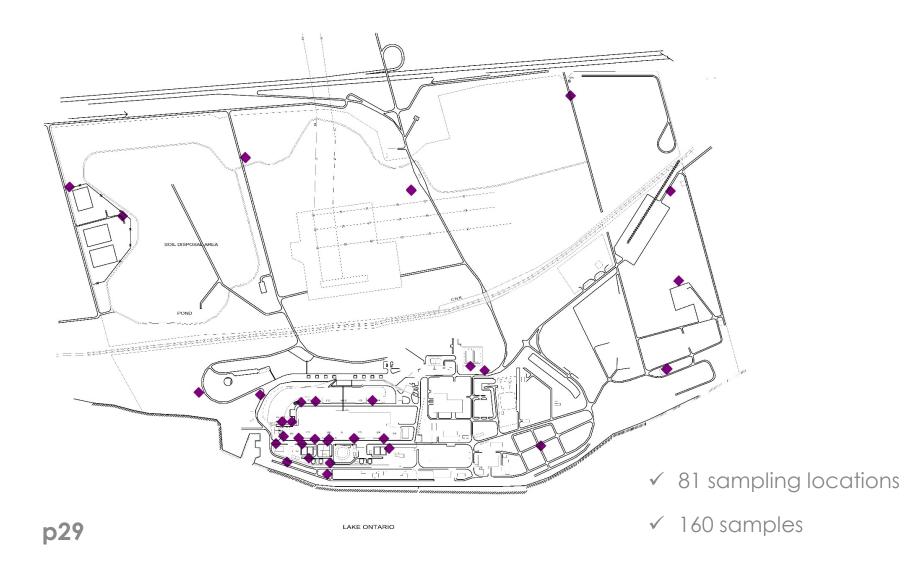


PN | Site Boundary Groundwater Quality

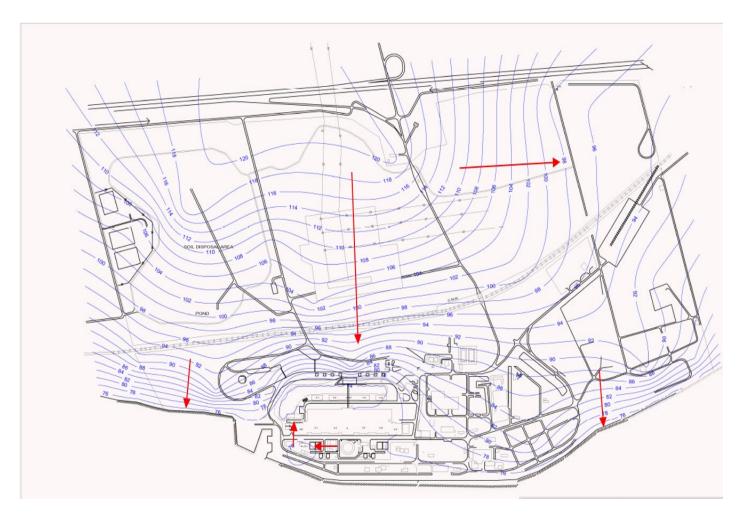




DN | Program Overview



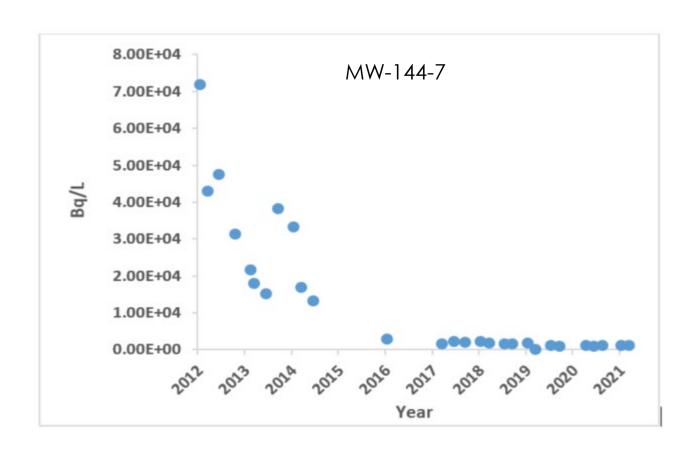
DN | Groundwater Flow Direction



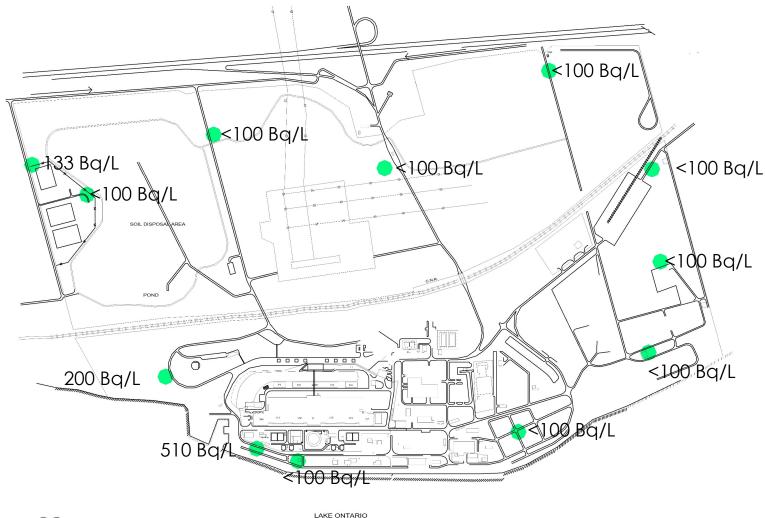
Reactor Building Area



Reactor Building Area



DN | Site Boundary Groundwater Quality



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2020 Summary

- For both Pickering Nuclear and Darlington Nuclear, the groundwater flow patterns remain consistent with original interpretations.
- Groundwater data collected from the key areas remained stable, which indicate consistent environmental performance.
- There were no indications of off-site impacts from PN and DN groundwater



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