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**To:** George Dolinar  
**From:** Julie Therrien  
**Cc:** Christine Gallagher  
**Subject:** Addendum to Environmental Risk Assessment for Gentilly-1, Quality Assurance/Quality Control for 61-505210-ASD-001,

Section 6.5 Quality Assurance/Quality Control should be added to the ERA G-1 report following page 6-3 and read as follows:

QA/QC for collection of samples and analysis for radiological and non-radiological parameters followed the CNL Groundwater Monitoring Program Specifications document [1]. This document was supported by Environmental Technology Branch procedures for pH, conductivity, alkalinity, major ions (e.g. Na, Ca, Mg, Cl, SO<sub>4</sub>) and radionuclides [2]-[5]. Metal analysis followed the Analytical Chemistry Branch's QA/QC procedures as described in [6]. Research Productivity Council (RPC) provided analyses for ATG-16, ATG-17, ATG-18, ATG-19, ATG-20 (Extractables, Acids), ATG-23 (Extractables, Neutral-Chlorinated), ATG-24 (Dioxins & Furans), and ATG-27 (PCBs). (Note: RPC does not provide this service anymore). QA/QC for these analyses was under RPC's QA/QC program. QA/QC of data from Hydro-Québec environmental monitoring reports (2014 to 2018) and from the Canadian Nuclear Safety Commission's Independent Environmental Monitoring Program cited in the ERA [7] would be covered under each of these organization's QA/QC programs.

**References:**

- [1] *CRL Groundwater Monitoring Program Specification, Decommissioning & Waste Management* 3611-01500-PSD-001 Revision 0, [20135037](#)
- [2] *GW Collection and Wellhead measurement*, 153-121221-TEP-002, [40762373](#)
- [3] *Procedure for Sample Storage*, 153-121221-TEP-006, [40748558](#)
- [4] *Preparation of Aqueous Samples for Rads*, 153-121221-TEP-003, [40748558](#)
- [5] *Performing Gross Alpha and Gross Beta Measurements GFPC*, 153-121266-TEP-003, [51444801](#)
- [6] *ACB General Laboratory Procedure For The ICP-OES Facility: General Procedure For Sample Analysis Using The Perkin-Elmer Optima 8300 Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)*, 148-127610-TEP-041, [35282639](#)

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- [7] *Environmental Risk Assessment for Gentilly-1, Prepared for Canadian Nuclear Laboratories Ltd. by Arcadis Canada Inc., Richmond Hill, Ontario, 2019, 61-505210-ASD-001, [47489253](#)*