

Environmental Assessment Approval

Approval Date: **APR 14 2016**

Envirosystems Facility: Modification to Temporarily Store and Clean Low-Level NORM Waste and Equipment, and Treat Wash-Water Project

Envirosystems Inc.

Halifax County, Nova Scotia

The Envirosystems Facility: Modification to Temporarily Store and Clean Low-Level Naturally Occurring Radioactive Material (NORM) Waste and Equipment, and Treat Wash-Water Project (the "Undertaking"), proposed by: Envirosystems Inc. (the "Approval Holder") in Dartmouth, Halifax County, Nova Scotia is approved pursuant to Section 40 of the *Environment Act* and Section 13(1)(b) of the *Environmental Assessment Regulations*. This Approval is subject to the following conditions and obtaining all other necessary approvals, permits or authorizations required by municipal, provincial and federal acts, regulations and by-laws before commencing work on the Undertaking. It is the responsibility of the Approval Holder to ensure that all such approvals, permits or authorizations are obtained before commencing work on the Undertaking.

This Environmental Assessment Approval is based upon the review of the conceptual design, environmental baseline information, impact predictions, and mitigation presented in the Registration Document.

Terms and Conditions for Environmental Assessment Approval

1.0 General Approval

- 1.1 The Environmental Assessment Approval for the Undertaking is limited to the Undertaking as described in the Environmental Assessment Registration Document. Any proposal by the Approval Holder for expansion, modification or relocation of any aspect of the project from that proposed in the Registration Document must be submitted to the Environmental Assessment Branch for review and may require an environmental assessment (EA).

- 1.2 The Approval Holder must, within two years of the date of issuance of this Approval, commence work on the Undertaking unless granted a written extension by the Minister.

The Approval Holder must notify NSE of the commencement date of the Undertaking, at a minimum 30 days prior to the commencement.

- 1.3 The Approval Holder must not transfer, sell, lease, assign or otherwise dispose of this Approval without the written consent of the Minister. The sale of a controlling interest of a business or a transfer of an approval from a parent company to a subsidiary or an affiliate is deemed to be a transfer requiring consent.
- 1.4 The Approval Holder must implement all mitigation and commitments in the Registration Document, unless approved otherwise by NSE.

2.0 Facility Operation and Maintenance

- 2.1 The Approval Holder, as part of the application for amendments to the Part V Approval under the *Environment Act*, must submit an Environmental Management and Monitoring Plan to NSE for review and approval, and must implement the plan following NSE's approval:
 - a) a testing program to ensure NORM contaminated materials accepted at the Envirosystems Facility (the "Facility") do not exceed 70 Bq/g (becquerels per gram), through testing conducted at the generator's site where the materials originated, and testing conducted at the Facility prior to acceptance;
 - b) procedures to handle, store, ship and dispose of NORM contaminated materials, including waste materials generated as part of any treatment process employed at the Facility (these procedures must include but not be limited to including recording the volume of the materials stored, treated and shipped annually);
 - c) procedures for the transport of NORM contaminated materials, from the generator, to the Facility, and then to an approved disposal facility (where required);
 - d) a monitoring plan to monitor the annual incremental effective dose of NORM at the Facility, and an associated plan to manage the dose level, once known;
 - e) a procedure for performing an initial batch sample upon receipt of the

first shipment of NORM contaminated materials from each source. This procedure will demonstrate the wastewater which will be generated is capable of being treated to meet discharge limits prescribed as part of the amended Part V Approval under the *Environment Act*.

f) a monitoring plan for treated wastewater prior to discharge to Halifax municipal sewer system to ensure that the discharge meets the limits prescribed as part of the amended Part V Approval under the *Environment Act*.

3.0 Surface Water and Ground Water

- 3.1 At the request of NSE, the Approval Holder must develop and implement a plan to monitor water resources. Based on the results of the monitoring plan, the Approval Holder must make necessary modifications to mitigation plans and/or project operations, if required, to prevent unacceptable environmental effects, to the satisfaction of NSE.
- 3.2 The Approval Holder must replace, at their expense, any water supply which has been lost or damaged as a result of project operations to the satisfaction of NSE.

4.0 Air Quality and Noise

- 4.1 At the request of NSE, the Approval Holder must develop and implement an air quality and/or dust monitoring plan. This plan must include but not be limited to sampling locations, parameters, monitoring methods, protocols and frequency. Based on the results of the monitoring programs as proposed, the Approval Holder must make necessary modifications to mitigation plans and/or operations as required by NSE.
- 4.2 At the request of NSE, the Approval Holder must monitor noise levels. Based on the results of monitoring program as proposed, the Approval Holder must make necessary modifications to mitigation plans and/or operations as required by NSE.

5.0 Archaeological and Heritage Resources / Aboriginal Interests

- 5.1 The Approval Holder must cease work and contact the Special Places Coordinator, Nova Scotia Department of Communities, Culture and Heritage immediately upon discovery of an archaeological site or artifact unearthed during any phase of the Undertaking. If the find is of certain or suspected Mi'kmaq origin, the Approval Holder must also contact the Executive Director of the Kwilmu'kw Maw-klusuaqn Negotiation Office.

6.0 Public Consultation

- 6.1 Prior commencing the Undertaking, the Approval Holder must develop and implement a complaint resolution plan to address all concerns associated with the Undertaking. The Approval Holder must appoint a contact person designated to deal with complaints, and must provide the contact information to NSE.
- 6.2 At the request of NSE, the Approval Holder must develop and implement a plan for the formation and operation of a Community Liaison Committee (CLC), including terms of reference. The Approval Holder must operate the CLC for the duration of the Undertaking and until released in writing by NSE. The NSE Guidelines for the Formation of a Community Liaison Committee shall be used for guidance.

7.0 First Nation and Aboriginal Engagement

- 7.1 At the request of NSE, Approval Holder must develop and implement a Mi'kmaq Communication Plan for the Undertaking, which will include a process for communicating project details and seeking input from the Mi'kmaq community.

8.0 Contingency Plans

- 8.1 The Approval Holder, as part of the application for amendments to the Part V Approval under the *Environment Act*, must submit to NSE for review and acceptance a contingency plan that meets NSE's Contingency Planning Guidelines and addresses (including but not limited to):
 - a) accidental occurrences, and includes the location of spill equipment kept on-site and emergency phone numbers;
 - b) training to be delivered to staff, including contractors;
 - c) procedures for responding to incidents occurring during times when the Facility is not staffed (e.g. evenings, weekends, holidays);
 - d) impacts to watercourses and water resources and domestic water supplies;
 - e) releases of dangerous goods or waste dangerous goods;
 - f) potential fire at the Facility (to be reviewed and approved by the local fire

and emergency service providers);

g) petroleum and hazardous material spills and surface water control structure failure; and

h) such other information as required by NSE.

9.0 Site Reclamation and Closure

- 9.1 The Approval Holder must provide a reclamation and closure plan to NSE for review and approval 90 days prior to the proposed decommissioning date.
- 9.2 Project operations must be completed and reclaimed to the satisfaction of NSE and other appropriate regulatory departments.



Margaret Miller, MLA
Minister of Environment

