



Ministry of
Environment

CERTIFICATE OF COMPLIANCE
(Pursuant to Section 53 of the *Environmental Management Act*)

THIS IS TO CERTIFY that as of the date indicated below, the site identified in Schedule A of this Certificate of Compliance has been satisfactorily remediated to meet the applicable Contaminated Sites Regulation remediation standards.

This Certificate of Compliance is qualified by the requirements and conditions specified in Schedule B.

The substances for which remediation has been satisfactorily completed and for which this Certificate of Compliance is valid are listed in Schedule C.

I have issued this Certificate of Compliance based on a review of relevant information including the documents listed in Schedule D. I, however, make no representation or warranty as to the accuracy or completeness of that information.

A Director may rescind this Certificate of Compliance if requirements and conditions imposed in the Certificate of Compliance are not complied with or any fees payable under Part 4 of the Act or regulations are outstanding.

This Certificate of Compliance should not be construed as an assurance that there are no hazards present at the site.

The substances to which this Certificate of Compliance applies migrated to the site from a neighbouring source. It should not be assumed that this Certificate of Compliance certifies the remediation of all contaminants at the site.

October 11, 2016
Date Issued


Lavinia Zanini, P.Geo.
For Director, *Environmental Management Act*

Schedule A

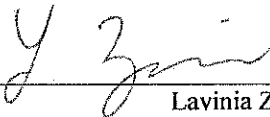
The site covered by this Certificate of Compliance is located at 3180 and 3190 Island Highway N., Nanaimo, British Columbia which is more particularly known and described as:

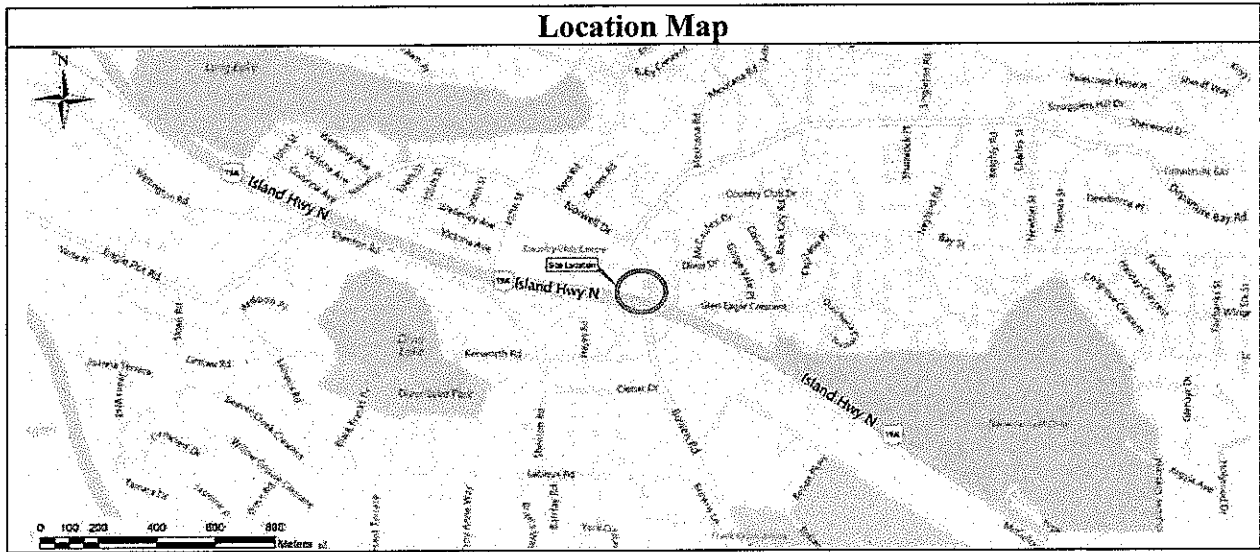
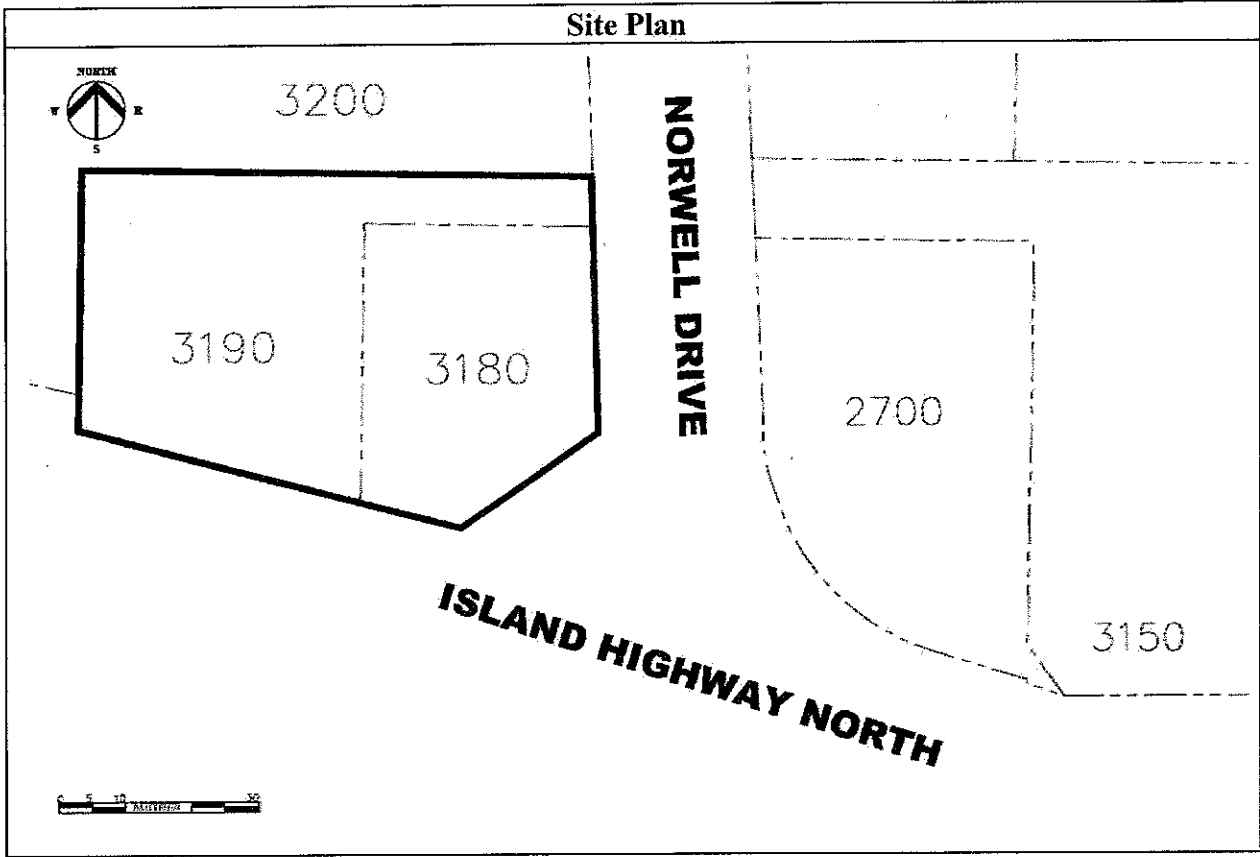
Lot 2, Section 5, Wellington District, Plan 47148,
PID: 011-895-811 3180 Island Highway N
Lot 1, Section 5, Wellington District, Plan 47148,
PID: 011-895-802 3190 Island Highway N

The approximate centre of the site using the NAD (North American Datum) 1983 convention is:

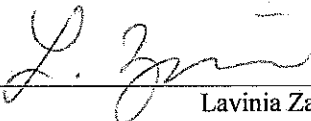
Latitude: 49° 12' 17.5"
Longitude: 124° 0' 8.0"

October 11, 2016
Date Issued


Lavinia Zanini, P. Geo.
For Director, *Environmental Management Act*



October 11, 2016
Date Issued


 Lavinia Zanini, P.Geo.
 For Director, *Environmental Management Act*

Schedule B

Requirements and Conditions

1. Any changes in land, vapour or water uses must be promptly identified by the responsible persons in a written submission to the Director. An application for an amendment or new Certificate of Compliance may be necessary. The uses to which this condition applies are described in Schedule C and in the site investigation documents listed in Schedule D.

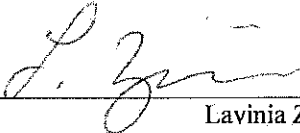
The documents listed in Schedule D indicate that vapour attenuation factors were applied to meet the Contaminated Sites Regulation numerical standards at the site. These vapour attenuation factors were selected based on assumptions about the structures, locations and depths of buildings and trenches existing or expected at the site. These assumptions include the following:

- (a) Future buildings at the site must be slab on-grade with a maximum slab depth of 0.3 m below grade; and
- (b) The grade at the site must remain approximately consistent with current grade or be higher than current grade.

Any inconsistencies that arise between the structures, locations and depths of proposed or constructed buildings or trenches at or adjacent to the site and the range of structures, locations and depths of buildings or trenches assumed in the selection of vapour attenuation factors in the documents listed in Schedule D must be promptly identified by the responsible persons in a written submission to the Director. An application for an amendment or new Certificate of Compliance may be necessary.

2. The principal risk controls which must be present or implemented and must be maintained at the site include the following:
 - a) Groundwater at the Site must not be used as a drinking water source.
3. If requested by the Director, the responsible persons must provide a signed statement indicating whether the principal risk controls listed in clause 2 of this Schedule have been and continue to be met. This may include providing a signed statement by an Approved Professional.
4. Performance verification must be undertaken as specified in the Performance Verification Plan listed in Schedule D or as specified in a modification of the plan approved by the Director.

October 11, 2016
Date Issued


Lavinia Zanini, P. Geo.
For Director, *Environmental Management Act*

5. Where required under a Performance Verification Plan for the site, records of performance verification actions and results must be maintained by the responsible persons or their agent. The records must be available for inspection by the Director.
6. The Director must be notified promptly by the person responsible for the site if performance verification actions indicate that any institutional controls required in clause 2 of this Schedule are not being met. The following information must be submitted to the Director with the notification, or as soon as practicable thereafter:
 - (a) The time period over which institutional controls did not meet the requirements of Schedule B;
 - (b) The nature of the excursion;
 - (c) The temporary or permanent corrective measures implemented or to be implemented;
 - (d) An implementation schedule; and
 - (e) Supporting documentation.
7. If requested by the Director, a report signed by an Approved Professional must be submitted for review to the Director and must include the following:
 - (a) An evaluation of the performance of the institutional controls;
 - (b) Recommendations for modification of any plans referenced above, along with supporting rationale;
 - (c) Interpretation of current and cumulative results of the performance verification actions undertaken according to the plan described in clause 4 above; and
 - (d) Supporting documentation.

October 11, 2016

Date Issued


Lavinia Zanini, P. Geo.
For Director, *Environmental Management Act*

Schedule C

Substances and Uses

Substances remediated in soil for commercial land soil use:

To meet risk-based remediation standards:

- Benzene, ethylbenzene, toluene, xylene; and
- VPHs, LEPHs.

Substances remediated in water for drinking water use:

To meet numerical remediation standards:

- Benzo[a]pyrene.

To meet risk-based remediation standards:

- Benzene, ethylbenzene, toluene, xylenes;
- VHW₆₋₁₀, EPHW₁₀₋₁₉;
- 1,2-Dibromoethane, 1,2-dichloroethane; and
- Dissolved lead.

Substances remediated in water for freshwater aquatic life water use:

To meet numerical remediation standards:

- Benzo[a]pyrene.

To meet risk-based remediation standards:

- Benzene, ethylbenzene, toluene;
- VHW₆₋₁₀, VPHw, EPHW₁₀₋₁₉, LEPHw;
- Naphthalene; and
- 1,2-Dichloroethane.

October 11, 2016

Date Issued


Lavinia Zanini, P.Geo.
For Director, *Environmental Management Act*

Schedule D

Documents

Summary of Site Conditions (for Site ID: 3189), SNC-Lavalin Inc., dated July 8, 2016;

Administrative Guidance 11 Correspondence Summary, 3180 and 3190 North Island Highway and 2700 Norwell Drive, Nanaimo, BC and Adjacent Management Areas, SNC-Lavalin Inc., dated July 8, 2016;

Performance Verification Plan, 3180 and 3190 North Island Highway, Nanaimo, BC, SNC-Lavalin Inc., dated June 10, 2016;

Human Health and Ecological Risk Assessment, 3180 and 3190 North Island Highway, 2700 Norwell Drive and Adjacent Offsite Management Areas, Nanaimo, BC, SNC-Lavalin Inc., dated June 9, 2016;

Stage 2 Preliminary Site Investigation and Detailed Site Investigation, 3180 and 3190 North Island Highway and 2700 Norwell Drive, Nanaimo, BC, SNC-Lavalin Inc., dated June 8, 2016;

Stage 1 Preliminary Site Investigation, 3180 and 3190 North Island Highway and 2700 Norwell Drive, Nanaimo, BC, SNC-Lavalin Inc., dated June 7, 2016; and

Stage 1 Preliminary Site Investigation and Detailed Site Investigation, Former Norwell Esso, 2700 Norwell Drive, Nanaimo, British Columbia, Location No. 990465/88004904, O'Connor Associates Environmental, Inc., dated May 29, 2002.

October 11, 2016

Date Issued



Lavinia Zanini, P.Geo.

For Director, *Environmental Management Act*