



Ministry of  
Environment and  
Climate Change Strategy

# ***PROTOCOL 6*** ***FOR CONTAMINATED SITES***

## Eligibility of Applications for Review by Approved Professionals

Version 10.0

Prepared pursuant to Section 64 of the  
*Environmental Management Act*

Approved:

Cameron Lewis  
Director of Waste Management

November 1, 2017  
Date

Effective Date: November 1, 2017

## 1.0 Definitions

The following words, acronyms and expressions used in this protocol are defined in [Procedure 8, "Definitions and Acronyms for Contaminated Sites"](#).

Act	performance verification plan
approval	qualified professional
Approved Professional	Regulation
contaminated sites legal instrument	responsible person
contingency plan	risk-based standards
Director	Risk-based Standards Approved Professional
high risk site	risk assessment
legal instrument	risk control
non-high risk site	screening level risk assessment
numerical standards	site-specific risk-based concentration
Numerical Standards Approved Professional	site risk classification
operations and maintenance plan	site monitoring report
parcel	source parcel (or site)
	toxicity reference value

## 2.0 Introduction

The purpose of this protocol is for the Director, pursuant to sections 42 (1) and 64 of the *Environmental Management Act* (the Act), to designate the classes of activities, reports, and recommendations which are required to be performed, prepared or made by Approved Professionals.

[Protocol 12, "Site Risk Classification, Reclassification and Reporting"](#) provides procedures for classifying sites based on risk to human health and the environment. Sites are classified under Protocol 12 as either high risk or non high-risk.

In this protocol, sites referred to as low or moderate risk sites in sections 43, 47 and 49 of the Contaminated Sites Regulation (the Regulation) are considered non high-risk sites under Protocol 12, while sites considered medium, intermediate or high risk sites under sections 47 and 49 of the Regulation are considered high risk sites.

### **3.0 Qualifications**

- 3.1** Only specifically qualified Approved Professionals may make a recommendation to a Director that an application for a contaminated sites legal instrument be approved as follows:
- (a) A Numerical Standards Approved Professional is qualified to make a recommendation for a Determination of Contaminated Site, Approval in Principle and Certificate of Compliance based on the numerical standards and, where applicable, on a screening level risk assessment. A Numerical Standards Approved Professional is also qualified to make a recommendation for a Contaminated Soil Relocation Agreement based on the numerical standards.
  - (b) A Risk-based Standards Approved Professional is qualified to make a recommendation for an Approval in Principle and Certificate of Compliance based on screening level and detailed risk assessments.
- 3.2** An Approved Professional making a submission or recommendation to a Director must have the appropriate professional experience and qualifications for that work. If not, the Approved Professional must obtain and document that the submission has been supported by a qualified professional with the appropriate experience and training.

### **4.0 Applications for contaminated sites legal instruments**

- 4.1** In this section, the phrase “the recommendation by an Approved Professional” means a recommendation by an Approved Professional that an application for a contaminated sites legal instrument be approved by the Director.
- 4.2** Any application for a contaminated sites legal instrument with or without an approval under this protocol must be accompanied by complete supporting documentation and application material before it will be considered. Applications that are not complete shall be returned to the applicant with advice that for the application to be considered, the ministry’s application requirements must be met.
- 4.3** A Director may require that any application for a contaminated sites legal instrument for a non high-risk site must be reviewed by the ministry without a recommendation by an Approved Professional.

- 4.4** A Director may consider an application for a contaminated sites legal instrument for a high risk site that is accompanied by a recommendation of an Approved Professional.
- 4.5** Subject to section 4.3, an application for a contaminated sites legal instrument for the classes of sites listed in Table 1 must be accompanied by the recommendation of an Approved Professional.

**Table 1. Classes of sites for which legal instrument applications must be accompanied by the recommendation of an Approved Professional**

Column I	Column II
Legal Instrument	Site Risk Classification <sup>1</sup>
Determination of Contaminated Site	high risk non high-risk
Approval in Principle (remediation within five years)	non high-risk
Certificate of Compliance	non high-risk
Contaminated Soil Relocation Agreement (non risk-based)	high risk <sup>2</sup> non high-risk <sup>2</sup>

<sup>1</sup> Site Risk Classification as determined under Protocol 12

<sup>2</sup> Applies to source site.

- 4.6** If, under this protocol, there is no requirement for an application to be accompanied by the recommendation of an Approved Professional, the application must be submitted directly to the Ministry.
- 4.7** Subject to section 4.9, with respect to an application for a Determination of Contaminated Site, Approval in Principle or Certificate of Compliance, any applicant who is a responsible person for contamination at a parcel is responsible for the delineation and remediation of the entire area of contamination including contamination at the parcel and any contamination which has migrated from that parcel to neighbouring parcels.
- 4.8** Subject to section 4.9, with respect to an application for a Determination of Contaminated Site, Approval in Principle or Certificate of Compliance, any applicant who is not a responsible person for contamination that may be present at the parcel or that may exist beyond the boundary of the parcel need only have satisfactorily delineated and (if applicable) remediated the entire area of contamination at the parcel which is the subject of the instrument application.
- 4.9** A Director's approval is required prior to the submission of a contaminated sites legal instrument application which would incorporate any of the approaches listed in Table 2.

**Table 2. Types of contaminated sites legal instrument applications requiring prior approval of the Director**

No.	Intended Approach
<i>Involving the extent of the area of contamination delineated and remediated</i>	
1	Where the applicant is a responsible person for a source parcel and the entire area of contamination, including contamination at the source parcel and contamination which has migrated from that parcel to a neighbouring parcel or parcels, would not be delineated and/or remediated and would not be included in the contaminated site instrument application or applications <sup>1</sup> .
<i>Involving background substance concentrations<sup>2,3</sup></i>	
2	Where local background substance concentrations derived by any methods for surface water, sediments or vapour would be adopted.
<i>Involving orders</i>	
3	If the application refers to a parcel currently subject to a preliminary or detailed site investigation order (excluding an order in response to the submission of a site profile under section 7.1 of the Contaminated Sites Regulation), remediation order, pollution prevention order or pollution abatement order under the Act.
<i>Involving risk assessments</i>	
4	Where a risk assessment would be used which includes <i>de novo</i> derivation of toxicity reference values.
5	Where a risk assessment would be used which includes derivation or use of a site-specific risk-based concentration.

<sup>1</sup>Section 53 (6) of the Act provides that a Director may issue an Approval in Principle or Certificate of Compliance for a part of a contaminated site.

[Administrative Guidance 15, “Approvals Not to Delineate or Remediate the Entire Area of Contamination at a Site”](#) provides guidance on the process and supporting documentation for applications to the Director for approval not to delineate or remediate the entire area of contamination at a site.

<sup>2</sup>The determination of local background substance concentrations in groundwater is subject to the requirements of [Protocol 9, “Determining Background Groundwater Quality”](#). Approval of the Director pursuant to Protocol 9 is required.

<sup>3</sup>The determination of local background substance concentrations in soil is subject to the requirements of [Protocol 4, “Determining Background Soil Quality”](#). See Protocol 4 for circumstances where approval of the Director pursuant to Protocol 4 is required.

**4.10** The application form provided in Appendix 1 must be used to apply for an approval under this protocol.

## **5.0 Submissions not involving applications for contaminated sites legal instruments**

### **5.1 Site monitoring reports and statements of satisfactory performance**

**5.1.1** Subject to subsection 5.1.2, reports and statements required to be submitted to a Director as a condition of a contaminated sites legal instrument must be accompanied by the recommendation of an Approved Professional that the reports or statements be accepted by the Director. Reports and statements may include the following:

- a site monitoring report;
- a summary of remedial activities at a site;
- an assessment of overall remediation progress;
- an interpretation of current or cumulative monitoring results; and
- an evaluation of the performance of risk controls and other remedial measures including whether the measures are meeting conditions imposed in the legal instrument and the applicable remediation standards.

**5.1.2** Subsection 5.1.1 does not apply if the requirement for the reports or statements were established without the recommendation of an Approved Professional.

**5.1.3** With respect to conditions included in Approvals in Principle and Certificates of Compliance, when monitoring objectives have been achieved or changes to monitoring requirements are requested, Approved Professionals may recommend that a Director amend an Approval in Principle or Certificate of Compliance.

### **5.2 Additional recommendations, reports and opinions**

In relation to ministry procedures, policies, and protocols such as the ministry's [Procedure 9, "Procedures for Processing Site Profiles"](#) and [Protocol 12, "Site Risk Classification, Reclassification and Reporting"](#), and this protocol, Approved Professionals (subject to the professional experience and qualifications requirements of section 3.2 of this protocol) may provide recommendations, reports and opinions to a Director in relation to the following:

- changes over a period of time in the concentrations of substances at a parcel;
- the appearance or discovery of new substances at a parcel;
- the adequacy of investigations at a parcel;
- site risk classification;
- performance verification, contingency, and operations and maintenance plans;
- the ability of a remediation plan to appropriately manage contamination, when implemented at a parcel;

- the ability of a parcel to be remediated before specific administrative endpoints or events such as the issuance of a building permit, occupancy permit, or completion of a building inspection;
- the design of any works and implementation of other measures required to prevent recontamination of a previously contaminated parcel;
- summaries of remedial activities;
- assessments of remediation progress including evaluations in comparison with actions and schedules set out in remediation plans;
- confirmation that a parcel will meet applicable standards and criteria in the Regulation and would be eligible for a certificate of compliance upon completion of remediation; and
- the extent of delineation of contamination at and migrating from a parcel.

For more information, please direct inquiries to [site@gov.bc.ca](mailto:site@gov.bc.ca)

#### Revision history

Approved Date	Effective Date	Document Version	Notes
December 7, 2015	February 1, 2016	9.0	
	November 1, 2017	10.0	Updated as part of the Stage 10 Amendment

## **Appendix 1**

### **Approval Application Form**



Ministry of  
Environment and  
Climate Change Strategy

## COVER SHEET TO PROTOCOL 6 APPROVAL APPLICATION

Land Remediation Section  
PO Box 9342 Stn Prov Govt  
Victoria B.C. V8W 9M1  
Telephone: (250) 387-4441  
E-mail: [site@gov.bc.ca](mailto:site@gov.bc.ca)

This application may be sent to the Ministry of Environment (the ministry) by paper mail or courier. It must also be scanned and e-mailed to: [csp\\_cio@Victoria1.gov.bc.ca](mailto:csp_cio@Victoria1.gov.bc.ca).

The paper mail version of the application should be sent to the attention of the Client Information Officer at:

Ministry of Environment  
3<sup>rd</sup> Floor- 525 Superior Street  
Victoria, BC  
V8V 1T7

For further information, please e-mail us at [site@gov.bc.ca](mailto:site@gov.bc.ca), or contact us by phone at (250) 387-4441.

### Instructions

The attached Approval Application form must be completed, signed and sent to the ministry when approval is required under section 4.9 of [Protocol 6, "Eligibility of Applications for Review by Approved Professionals"](#). Once Director's approval is obtained, an application for a contaminated sites legal instrument accompanied by the recommendation of an Approved Professional that the application be approved, is eligible for submission to the ministry.

In Section VIII of the Approval Application provide detailed rationale and information supporting your application including:

- The reasons why approval is being requested, for example, for legal and/or scientific reasons. Please refer to [Administrative Guidance 15](#) for guidance regarding approvals not to delineate or remediate the entire extent of contamination at a site.
- Relevant site information at a level of detail appropriate to the requested approval.
- Complete rationale for the approval, including any additional supporting information and data interpretation.
- Scientific citations:
  - ⇒ if proposing to use a standardized and recognized methodology – fully cite the source of the standardized methodology, or
  - ⇒ If proposing a new scientific methodology – provide full details of the method with the scientific assessment and all relevant supporting literature.

Please attach additional information if there is not enough space in Section VIII of the form.

When applying for an approval, a satisfactorily completed Approval Application form must be accompanied by a [Contaminated Sites Service Application form](#). Check the "Additional services/ functions" box in section C of the Contaminated Sites Service Application form.

The ministry response time will depend on the nature of the approval requested and the adequacy of the information provided with the application. For properly completed simple applications for approval, the ministry aims to respond within two weeks. More complex applications would likely require a longer period for ministry review and approval and may necessitate the submission of additional information.

*Please note that hourly fees under the Contaminated Sites Regulation will be invoiced to applicants for the time persons are engaged on behalf of the ministry in responding to any application for an approval under Protocol 6.*

For further information regarding approvals under Protocol 6, please direct inquiries to [site@gov.bc.ca](mailto:site@gov.bc.ca).



Ministry of  
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## PROTOCOL 6 APPROVAL APPLICATION

Land Remediation Section  
PO Box 9342 Stn Prov Govt  
Victoria B.C. V8W 9M1  
Telephone: (250) 387-4441  
E-mail: site@gov.bc.ca

Submission of this form is required to obtain approval for any of the approaches listed in Table 2 of section 4.9 of Protocol 6, "Eligibility of Applications for Review by Approved Professionals" under the *Environmental Management Act (the Act)*. If an approval is required under Protocol 6, it must be submitted with any Approved Professional application for the issuance of a contaminated sites legal instrument under the *Act*.

### Section I Ministry Use

Application number: Approval Application form

Associated Service Application form

### Section II Land Description

Site ID Number (if known)

PID

or

PIN

Legal Description

Latitude

Degrees

Minutes

Seconds

Longitude

Degrees

Minutes

Seconds

Site Civic Address

Street

City

Postal Code

### Section III Applicant

Name

Address Street

City

Province/State

Country

Postal /Zip Code

Phone

E-mail

### Section IV Property Owner and/or Operator (if different from Applicant)

Name

Address Street

City

Province/State

Country

Postal /Zip Code

Phone

E-mail

### Section V Agent acting on behalf of Applicant

Name

Address Street

City

Province/State

Country

Postal /Zip Code

Phone

E-mail

**Section VI Billing Contact**GST Exempt?  Yes  No

Name

Address Street

City

Province/State

Country

Postal /Zip Code

Phone

E-mail

**Section VII Approval Requested**

Check the applicable approaches listed in Table 2, section 4.9 of Protocol 6 being submitted for approval:

- 1. Where the applicant is a responsible person for a source parcel and the entire area of contamination, including contamination at the source parcel and contamination which has migrated from that parcel to a neighbouring parcel or parcels, would not be delineated and/or remediated and would not be included in the contaminated site instrument application or applications.
- 2. Where local background substance concentrations derived by any methods for surface water, sediments or vapour would be adopted.
- 3. If the application refers to a parcel currently subject to a preliminary or detailed site investigation order (excluding an order in response to the submission of a site profile under section 7.1 of the Contaminated Sites Regulation), remediation order, pollution prevention order or pollution abatement order under the Act.
- 4. Where a risk assessment would be used which includes *de novo* derivation of toxicity reference values.
- 5. Where a risk assessment would be used which includes derivation or use of a site-specific risk-based concentration.

**Section VIII Rationale and Supporting Information** (attach additional information if insufficient space below)

**Section IX Signature – Applicant or Agent acting on behalf of Applicant**

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
print name mm/dd/yyyy

For more information, please direct inquiries to [site@gov.bc.ca](mailto:site@gov.bc.ca)