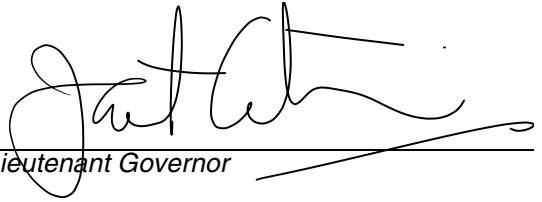


PROVINCE OF BRITISH COLUMBIA

ORDER OF THE LIEUTENANT GOVERNOR IN COUNCIL

Order in Council No. 368

, Approved and Ordered June 29, 2020



Lieutenant Governor

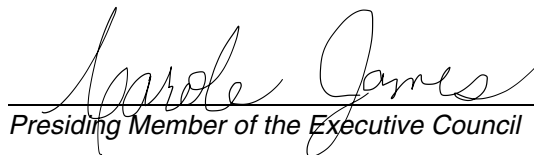
Executive Council Chambers, Victoria

On the recommendation of the undersigned, the Lieutenant Governor, by and with the advice and consent of the Executive Council, orders that, effective February 1, 2021,

- (a) sections 1 to 10 and 26 to 48 of the *Environmental Management Amendment Act, 2019*, S.B.C. 2019, c. 19, are brought into force,
- (b) the Administrative Penalties (*Environmental Management Act*) Regulation, B.C. Reg. 133/2014, is amended as set out in the attached Appendix 1, and
- (c) the Contaminated Sites Regulation, B.C. Reg. 375/96, is amended as set out in the following sections of the attached Appendix 2:
 - (i) section 1, as it repeals the definition of “**decommission a site**” in section 1 of the Contaminated Sites Regulation;
 - (ii) section 2;
 - (iii) section 3, except as it enacts sections 3 to 3.5, 5, 6 and 6.1 to 6.4 of the Contaminated Sites Regulation, B.C. Reg. 375/96;
 - (iv) sections 5 to 7.



Minister of Environment and Climate Change Strategy



Presiding Member of the Executive Council

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section: *Environmental Management Act*, S.B.C. 2003, c. 53, ss. 62, 138 and 139;
Environmental Management Amendment Act, 2019, S.B.C. 2019, c. 19, s. 49

Other: OC 1480/96

R10363061

APPENDIX 1

- 1 *Section 12 (1) of the Administrative Penalties (Environmental Management Act) Regulation, B.C. Reg. 133/2014, is amended by striking out “40 (1), (2), (3), (6) or (7),” and substituting “40 (1), (2), (6) or (7), 40.1 (2).”*
- 2 *Section 22 is amended by striking out “section 57 (1) or (1.2),” and substituting “section 3.2 (1), (2) or (3), 3.4, 57 (1) or (1.2).”*

APPENDIX 2

- 1 *Section 1 of the Contaminated Sites Regulation, B.C. Reg. 375/96, is amended by repealing the definitions of “decommission a site”, “site profile form” and “summary of site condition form”.*
- 2 *The following section is added to Part 1:*

Interpretation – specified industrial or commercial uses

- 1.1 For the purposes of the definition of “specified industrial or commercial use” in section 39 (1) of the Act, the purposes and activities set out in Schedule 2 of this regulation are prescribed as industrial and commercial purposes or activities.

- 3 *Part 2 is repealed and the following substituted:*

PART 2 – SITE DISCLOSURE STATEMENTS

Division 1 – Interpretation

Interpretation – decommissioning a site

- 2.1 For the purposes of section 40 (2) (a) (i) of the Act and this Part, an owner or operator decommissions a site if the owner or operator does any of the following in a manner designed to stop all specified industrial or commercial uses of the site:
 - (a) removes or treats soil;
 - (b) removes, destroys or treats buildings or process equipment, including storage tanks.

Interpretation – ceasing operations at a site

- 2.2 For the purposes of section 40 (2) (a) (ii) of the Act and this Part, an owner or operator ceases operations on land if
 - (a) the owner or operator ceases using the land for a specified industrial or commercial use, and
 - (b) the land is not used for any specified industrial or commercial uses for 12 months after the date on which the specified industrial or commercial use referred to in paragraph (a) ceases.

Division 2 – When Site Disclosure Statements Must Be Provided

Site disclosure statements by persons applying to approving officers or municipalities

- 3 A person who is required to provide a site disclosure statement under section 40 (1) of the Act must provide the site disclosure statement at the time of presenting, in writing, an application or request for approval described in that section.

Site disclosure statements by municipalities undertaking zoning or rezoning

- 3.1 A municipality that, under section 40 (1) (b) (i) of the Act, is undertaking to zone or rezone land in which it has an ownership interest must provide a site disclosure statement to the registrar within 15 days after giving first reading to the applicable zoning bylaw.

Site disclosure statements by owners or operators of land

- 3.2 (1) A person who is required to provide a site disclosure statement under section 40 (2) (a) of the Act in relation to land must provide the site disclosure statement to the registrar within 6 months after the owner or operator
 - (a) decommissions a site on the land, or
 - (b) ceases operations on the land.
- (2) A person who is required to provide a site disclosure statement under section 40 (2) (b) of the Act must provide the site disclosure statement within 90 days after filing for protection under, or otherwise becoming subject to, the *Companies' Creditors Arrangement Act* (Canada).
- (3) A person who is required to provide a site disclosure statement under section 40 (2) (c) of the Act must provide the site disclosure statement within 90 days after filing a proposal, or a notice of intention to make a proposal, under Part III of the *Bankruptcy and Insolvency Act* (Canada).

Site disclosure statements by vendors of real property

- 3.3 A vendor of real property who is required to provide a site disclosure statement under section 40 (6) of the Act must provide the site disclosure statement as follows:
 - (a) unless paragraph (b) applies, at least 30 days before the actual transfer of the real property;
 - (b) if the time between the written agreement for the transfer of the real property and the actual transfer is less than 30 days, before the written agreement is entered into.

Site disclosure statements by persons who take possession or control of real property

- 3.4 A person who is required to provide a site disclosure statement under section 40 (7) of the Act must provide the site disclosure statement to the registrar within 10 days after the person takes possession or control of real property referred to in that provision.

Request for information by municipality or approving officer

- 3.5** Nothing in this Part restricts the authority of a municipality or approving officer to request a person applying for or otherwise seeking approval of a matter referred to in section 40 (1) of the Act to provide the information required by a site disclosure statement even though the person is not required under the Act to provide a site disclosure statement.

Division 3 – Exemptions from Providing Site Disclosure Statements

Exemption – other processes apply under the Act

- 4** (1) A person is exempt from the requirement to provide a site disclosure statement under section 40 (1) or (2) of the Act in relation to a site if
- (a) the site is the subject of an approval in principle or certificate of compliance relevant to
 - (i) the current use of the site, or
 - (ii) any use of the site proposed by the person, and
 - (b) the person, after making reasonable inquiries, has no reason to believe that any further contamination occurred at the site after the approval in principle or certificate was issued.
- (2) A person is exempt from the requirement to provide a site disclosure statement under section 40 (1) or (2) of the Act in relation to a site if
- (a) the site is located within an environmental management area for which a director has approved
 - (i) a wide area remediation plan, or
 - (ii) the scope of a proposed wide area remediation plan, and
 - (b) the site disclosure statement would be provided only as a result of uses or activities that caused contamination that is dealt with in the approved plan or scope.
- (3) A person is exempt from the requirement to provide a site disclosure statement under section 40 (1) or (2) of the Act in relation to a site if
- (a) a determination was made under section 44 of the Act that the site is not a contaminated site, and
 - (b) the person, after making reasonable inquiries, has no reason to believe that any contamination occurred at the site after the determination was made.

Exemption – persons applying to approving officers

- 4.1** (1) A person is exempt from the requirement to provide a site disclosure statement to an approving officer under section 40 (1) (a) of the Act if either of the following applies:
- (a) the person is an applicant for subdivision under section 114 of the *Land Title Act*;
 - (b) the proposed subdivision consists only of
 - (i) an adjustment to the boundary of a parcel, or

- (ii) a consolidation of 2 or more parcels into a single parcel.
- (2) If, in relation to a development on land, a person applies for or otherwise seeks from an approving officer more than one approval for subdivision at the same time, the person may comply with the requirement under section 40 (1) (a) of the Act by providing a single site disclosure statement relating to the land for the purposes of all those approvals.

Exemption – persons applying to municipalities

- 4.2** (1) A person is exempt from the requirement to provide a site disclosure statement to a municipality under section 40 (1) (b) (i) of the Act if
- (a) the land in relation to which the person is seeking approval for zoning is being used for a specified industrial or commercial use, and
 - (b) the specified industrial or commercial use would continue to be authorized on the land if the zoning were approved.
- (2) A person is exempt from the requirement to provide a site disclosure statement to a municipality under section 40 (1) (b) (ii) of the Act if the development permit or building permit in relation to which the person is seeking approval is for only one or more of the following purposes:
- (a) demolition;
 - (b) installing or replacing underground utilities;
 - (c) installing or replacing fencing or signage;
 - (d) paving;
 - (e) landscaping.
- (3) If, in relation to a development on land, a person applies for or otherwise seeks from a municipality more than one approval for zoning or permits at the same time, the person may comply with the requirement under section 40 (1) (b) of the Act by providing a single site disclosure statement relating to the land for the purposes of all those approvals.

Exemption – municipalities undertaking zoning or rezoning

- 4.3** A municipality undertaking to zone or rezone land is exempt from the requirement to provide a site disclosure statement under section 40 (1) (b) (i) of the Act if either of the following applies:
- (a) the municipality does not have an ownership interest in the land;
 - (b) the municipality does not intend to develop any parcels of land in which it has an ownership interest that are located within the area being zoned or rezoned.

Exemption – more than one owner or operator required to provide site disclosure statement when ceasing operations on land

- 4.4** A person is exempt from the requirement to provide a site disclosure statement under section 40 (2) (a) of the Act in relation to land if

- (a) one or more other persons are also required to provide a site disclosure statement under that section as a result of a site being decommissioned on the land or operations ceasing on the land, as applicable, and
- (b) the site disclosure statement is provided by one of those other persons.

**Exemption – operating areas under the
*Oil and Gas Activities Act***

- 4.5** A person is exempt from the requirement to provide a site disclosure statement under section 40 (2) (b) and (c) of the Act in relation to land if the land is an operating area within the meaning of the *Oil and Gas Activities Act*.

Exemption – vendors of real property

- 4.6** A vendor of real property is exempt from the requirement to provide a site disclosure statement under section 40 (6) of the Act if any of the following apply:
- (a) the vendor does not have an ownership interest in the real property;
 - (b) the prospective purchaser waives, in writing, the entitlement to be provided with the site disclosure statement;
 - (c) at the time of the contract for purchase and sale, the real property
 - (i) is used primarily for a residential purpose, or
 - (ii) has never been zoned for any use other than primarily for residential purposes.

Exemption – previous submission of site profile

- 4.7** (1) In this section, “**site profile**” means a site profile under section 40 of the Act as that section read immediately before February 1, 2021.
- (2) A person is exempt from the requirement to provide a site disclosure statement under section 40 (1) of the Act in relation to land if all of the following criteria are met:
- (a) a site profile that relates to the land was provided to a municipality or approving officer before February 1, 2021;
 - (b) the municipality or approving officer, after assessing the site profile, forwarded the site profile to the registrar instead of the director in accordance with section 6 (1) (c) (ii) of this regulation, as it read immediately before February 1, 2021;
 - (c) the land has not been used for a specified industrial or commercial use after the date on which the site profile was provided to the municipality or approving officer.

Division 4 – Requirements for Site Disclosure Statement

Requirements for completing site disclosure statement

- 5** (1) The requirement of a person to provide a site disclosure statement under section 40 of the Act is not satisfied until the following occurs:
- (a) in the case of a site disclosure statement required to be provided under section 40 (1) of the Act, the municipality or approving officer assesses, in

- accordance with section 40 (4) (a) of the Act and section 6 of this regulation, that the site disclosure statement form is satisfactorily complete;
- (b) in any other case, the person provides all the information required by the site disclosure statement form.
- (2) A site disclosure statement must be completed using the form set out in Schedule 1.
- (3) Only the following persons may complete a site disclosure statement:
- (a) an owner of the land to which the site disclosure statement relates;
 - (b) an operator of a site on the land to which the site disclosure statement relates;
 - (c) a person authorized by
 - (i) an owner referred to in paragraph (a), or
 - (ii) an operator referred to in paragraph (b).
- (4) Only a person referred to in subsection (3) (a) or (b) may sign the declaration on a site disclosure statement.

Division 5 – Assessment of Site Disclosure Statement

Assessing and forwarding site disclosure statements

- 6** (1) For the purposes of section 40 (4) (a) of the Act, a municipality or approving officer must do the following within 15 days of receiving a site disclosure statement:
- (a) assess whether the site disclosure statement is satisfactorily completed in accordance with the instructions provided by a director;
 - (b) if the municipality or approving officer assesses that the site disclosure statement is satisfactorily complete, forward the site disclosure statement to the registrar;
 - (c) notify the person who provided the site disclosure statement of the following, as applicable:
 - (i) that the site disclosure statement has been assessed as satisfactorily complete and has been forwarded to the registrar;
 - (ii) that the site disclosure statement form is not satisfactorily complete.
- (2) For the purposes of assessing a site disclosure statement under section 40 (4) (a) of the Act, a municipality or approving officer is not required to conduct a search of the records or archives maintained by the municipality or approving officer.
- (3) A municipality or approving officer that receives or assesses a site disclosure statement under section 40 (1) or (4) of the Act is not required to do either of the following for the purposes of that section or this regulation:
- (a) keep a record of a site disclosure statement after fulfilling the obligations set out in that section of the Act;
 - (b) disclose to any person, other than the person who provided the site disclosure statement,

- (i) whether the municipality or approving officer possesses a particular site disclosure statement, or
- (ii) the contents of a particular site disclosure statement.

Division 6 – Investigations

Application

6.1 This Division applies for the purposes of section 40.1 of the Act.

Investigations and reports required on submission of site disclosure statements to municipalities or approving officers

- 6.2** (1) In this section, “**notice**” means a notice referred to in
- (a) section 34.1 (2) (b) (iii) or (iv) of the *Islands Trust Act*,
 - (b) section 85.1 (2) (b) (iii) or (iv) of the *Land Title Act*,
 - (c) section 557 (2) (b) (iii) or (iv) of the *Local Government Act*, or
 - (d) section 571B (2) (b) (iii) or (iv) of the *Vancouver Charter*.
- (2) A person who is required to provide a site disclosure statement under section 40 (1) of the Act must do the following before the person seeks from a director a notice that relates to the land that is the subject of the site disclosure statement:
- (a) undertake the following investigations of the land:
 - (i) a preliminary site investigation in accordance with section 58 (1) and (2) of this regulation;
 - (ii) if the preliminary site investigation indicates that the land is contaminated, a detailed site investigation in accordance with section 59 (1) (b) and (2) of this regulation;
 - (b) prepare and submit to the director a report of the preliminary site investigation and detailed site investigation, as applicable, undertaken under paragraph (a).
- (3) For the purposes of subsection (2) (b),
- (a) a report of a preliminary site investigation must meet the requirements set out in section 58 (5), and
 - (b) a report of a detailed site investigation must meet the requirements set out in section 59 (3).
- (4) Nothing in this section limits the authority of a director to request information from a person seeking a notice.

Investigations required on submission of site disclosure statements under section 40 (2) (a) or (7) of the Act

- 6.3** (1) A person who is required to provide a site disclosure statement under section 40 (2) (a) or (7) of the Act must undertake the following investigations of the land that is the subject of the site disclosure statement:
- (a) a preliminary site investigation in accordance with section 58 (1) and (2) of this regulation;

- (b) if the preliminary site investigation indicates that the land is contaminated, a detailed site investigation in accordance with section 59 (1) (b) and (2) of this regulation.
- (2) Subsection (1) does not apply in either of the following circumstances:
 - (a) the land is the site of a waste management facility that is subject to a permit or operational certificate;
 - (b) the land is an operating area within the meaning of the *Oil and Gas Activities Act*.
- (3) The investigations required under subsection (1) must be undertaken on or before the later of the following:
 - (a) one year after the date on which the person provides the site disclosure statement to the registrar;
 - (b) a date specified by the director.

Information required on submission of site disclosure statements by insolvent owners or operators

- 6.4** (1) A person who is required to provide a site disclosure statement under section 40 (2) (b) or (c) of the Act must submit to a director the following information:
- (a) each report in the person’s custody or control that
 - (i) is about the environmental condition of the land, and
 - (ii) has been produced in the 5 years before the date on which the person provides the site disclosure statement to the registrar;
 - (b) any other information requested by the director about the environmental condition of the land.
- (2) A report referred to in subsection (1) (a) must be submitted within 30 days after the date on which the person provides the site disclosure statement to the registrar.
- (3) The information requested by a director under section (1) (b) must be submitted by the date specified by the director.

4 *Section 7.1 (2) is repealed.*

5 *Sections 9 (5) (b), (6) and (7), 26 (5) (f) (i) and (9) (a) and (b) and 27 (5) (d) (i) are amended by striking out “site profile” and substituting “site disclosure statement”.*

6 *Section 27 (1) is amended in paragraph (c) (i) of the definition of “available funds” by striking out “site profile” and substituting “site disclosure statement”.*

7 *Section 36 is amended*

(a) by repealing subsection (1) and substituting the following:

- (1) Subject to subsection (3), a director who receives a request under section 48 (10) of the Act for notice respecting whether a remediation order will be issued must provide the notice within 10 days after receiving the request. , *and*

(b) in subsection (2) by striking out “after receiving the site profile” and substituting “after receiving the request”.

8 *Section 68 (2) is repealed and the following substituted:*

(2) Recommendations of the director under subsection (1) are to be developed in accordance with a protocol established under

(a) section 64 (2) (n) of the Act, and

(b) section 67 (e) of this regulation.

9 *Schedules 1 and 2 are repealed and the attached Schedules 1 and 2 substituted.*

10 *Schedule 1.1 is repealed.*

11 *Part 1 of Schedule 3.1 is amended by repealing Matrix 21 and Matrix 25 and substituting the attached Matrix 21 and Matrix 25.*

12 *Schedules 3.2, 3.3 and 3.4 are repealed and the attached Schedules 3.2, 3.3 and 3.4 are substituted.*

**SCHEDULE 1
SITE DISCLOSURE STATEMENT**

I. CONTACT INFORMATION

A. Site Owner (s) or operator (s), as applicable (add extra pages, if necessary)

Last Name	First Name (s)
<input type="text"/>	<input type="text"/>
Company (if applicable)	
<input type="text"/>	
Owner/Operator Address	
<input type="text"/>	
City	Province/State
<input type="text"/>	<input type="text"/>
Country	Postal/Zip Code
<input type="text"/>	<input type="text"/>
Telephone ###-###-####	Email
<input type="text"/>	<input type="text"/>

B. Person Completing Site Disclosure Statement (Leave blank if same as above):

Agent authorized to complete form on behalf of the owner or operator

Last Name	First Name
<input type="text"/>	<input type="text"/>
Company (if applicable)	
<input type="text"/>	

C. Person to Contact Regarding the Site Disclosure Statement:

Last Name	First Name (s)
<input type="text"/>	<input type="text"/>
Company (if applicable)	
<input type="text"/>	
Mailing Address	
<input type="text"/>	
City	Province/State
<input type="text"/>	<input type="text"/>
Country	Postal/Zip Code
<input type="text"/>	<input type="text"/>
Telephone ###-###-####	Email
<input type="text"/>	<input type="text"/>

II. SITE INFORMATION

Coordinates (using the North American Datum 1983 convention) for the centre of the site:

Latitude	Degrees	Minutes	Seconds
-----------------	---------	---------	---------

Longitude	Degrees	Minutes	Seconds
------------------	---------	---------	---------

Attach a map of appropriate scale showing the location and boundaries of the site.

For Legally Titled, Registered Property

Site Address (or nearest street name/intersection if no address assigned)

City

Postal Code

PID numbers and associated legal descriptions.

PID	Land Description

For Untitled Crown Land

PIN numbers and associated Land Description (if applicable).

PIN	Land Description

(and, if available)

Crown Land File Numbers

III. INDUSTRIAL OR COMMERCIAL PURPOSES OR ACTIVITIES

Has the site been used for any industrial or commercial purposes or activities described in [SCHEDULE 2](#) of the Contaminated Sites Regulation?

YES NO

If you answered YES to the question above, please indicate below, in the format of the example provided, which of the industrial or commercial purposes or activities have occurred or are occurring on this site.

EXAMPLE

Schedule 2 Reference	Description
E1	appliance, equipment or engine maintenance, repair, reconditioning, cleaning or salvage
F10	solvent manufacturing, bulk storage, shipping or handling

Schedule 2 Reference	Description

IV. ADDITIONAL INFORMATION

1. Provide a brief summary of the planned activity and proposed land use at the site.

2. Indicate the information used to complete this site disclosure statement including a list of record searches completed.

3. List any past or present government orders, permits, approvals, certificates or notifications pertaining to the environmental condition of the site. (Attach extra pages, if necessary):

V. DECLARATIONS

1. Exemptions (See the Contaminated Sites Regulation, Division 3 of Part 2):

Does the application qualify for an exemption from submitting a site disclosure statement?

Yes If yes, indicate which exemption applies No

2. Where a municipal approval is not required, please indicate the reason for submission directly to the registrar:

Under Order Foreclosure CCAA Proceedings BIA Proceedings

Decommissioning Ceasing operations

By signing below, I confirm that the information in this form is complete and accurate to the best of my knowledge:

Signature

Date Signed (YYYY-MM-DD)

Reason for submission (Please check one or more of the following)

- Building permit
- Subdivision
- Zoning
- Development permit

Approving Authority Contact Information

Name

Agency

Address

Telephone ###-###-####

E-mail

Date Received (YYYY-MM-DD)

Date Submitted to registrar (YYYY-MM-DD)

SCHEDULE 2
SPECIFIED INDUSTRIAL OR COMMERCIAL USES

A	<p>Chemical industries and activities</p> <ol style="list-style-type: none"> 1. adhesives manufacturing, bulk storage, shipping or handling 2. chemical manufacturing, bulk storage, shipping or handling 3. explosives or ammunition manufacturing, bulk storage, shipping or handling 4. fire retardant manufacturing, bulk storage, shipping or handling 5. fertilizer manufacturing, bulk storage, shipping or handling 6. ink or dye manufacturing, bulk storage, shipping or handling 7. leather or hides tanning 8. paint, lacquer or varnish manufacturing, formulation, recycling, bulk storage, shipping or handling, not including retail stores 9. pharmaceutical products, or controlled substances as defined in the <i>Controlled Drugs and Substances Act</i> (Canada), manufacturing or operations 10. plastic products (foam or expanded plastic) manufacturing or repurposing 11. textile dyeing 12. pesticide manufacturing, formulation, bulk storage, shipping or handling 13. resin or plastic monomer manufacturing, formulation, bulk storage, shipping or handling
B	<p>Electrical equipment and activities</p> <ol style="list-style-type: none"> 1. battery manufacturing, recycling, bulk storage, shipping or handling 2. facilities using equipment that contains PCBs greater than or equal to 50 ppm 3. electrical equipment manufacturing, refurbishing, bulk storage, shipping or handling 4. electrical transmission or distribution substations 5. electronic equipment manufacturing 6. transformer oil manufacturing, processing, bulk storage, shipping or handling 7. electrical power generating operations fuelled by coal or petroleum hydrocarbons that supply electricity to a community or commercial or industrial operation, excluding emergency generators.

C	<p>Metal smelting, processing or finishing industries and activities</p> <ol style="list-style-type: none"> 1. foundries 2. galvanizing 3. metal plating or finishing 4. metal salvage operations 5. metal smelting or refining 6. welding or machine shops (repair or fabrication)
D	<p>Mining, milling or related industries and activities at or near land surface</p> <ol style="list-style-type: none"> 1. asbestos mining, milling, bulk storage, shipping or handling 2. coal coke manufacture, bulk storage, shipping or handling 3. coal or lignite mining, milling, bulk storage, shipping or handling 4. milling reagent manufacture, bulk storage, shipping or handling 5. metal concentrate bulk storage, shipping or handling 6. metal ore mining or milling
E	<p>Miscellaneous industries, operations or activities</p> <ol style="list-style-type: none"> 1. appliance, equipment or engine maintenance, repair, reconditioning, cleaning or salvage 2. ash deposit from boilers, incinerators or other thermal facilities 3. asphalt and asphalt tar manufacture, storage and distribution, including stationary asphalt batch plants 4. coal gasification (manufactured gas production) 5. medical, chemical, radiological or biological laboratories 6. outdoor firearm shooting ranges 7. road salt or brine storage 8. measuring instruments (containing mercury) manufacture, repair or bulk storage 9. dry cleaning facilities or operations and dry cleaning chemical storage, excluding locations at which clothing is deposited but no dry cleaning process occurs 10. contamination or likely contamination of land by substances migrating from an industrial or commercial site 11. fire training facilities at which fire retardants are used 12. single or cumulative spills to the environment greater than the reportable quantities of substances listed in the Spill Reporting Regulation

F	<p>Petroleum (including blends and biodiesels) and natural gas drilling, production, processing, retailing, distribution and commercial storage</p> <ol style="list-style-type: none"> 1. petroleum or natural gas drilling 2. petroleum or natural gas production facilities 3. natural gas processing 4. petroleum coke manufacture, bulk storage, shipping or handling 5. petroleum product, other than compressed gas, dispensing facilities, including service stations and card locks 6. petroleum, natural gas or sulfur pipeline rights of way excluding rights of way for pipelines used to distribute natural gas to consumers in a community 7. petroleum product (other than compressed gas), or produced water storage in non-mobile above ground or underground tanks, except tanks associated with emergency generators or with secondary containment 8. petroleum product, other than compressed gas, bulk storage or distribution 9. petroleum refining 10. solvent manufacturing , bulk storage, shipping or handling 11. sulfur handling, processing or bulk storage and distribution
G	<p>Transportation industries, operations and related activities</p> <ol style="list-style-type: none"> 1. aircraft maintenance, cleaning or salvage 2. automotive, truck, bus, subway or other motor vehicle maintenance, repair, salvage or wrecking 3. dry docks, marinas, ship building or boat repair and maintenance, including paint removal from hulls 4. marine equipment salvage 5. rail car or locomotive maintenance, cleaning, salvage or related uses, including railyards
H	<p>Waste disposal and recycling operations and activities</p> <ol style="list-style-type: none"> 1. antifreeze bulk storage, recycling, shipping or handling 2. barrel, drum or tank reconditioning or salvage 3. biomedical waste disposal 4. bulk manure stockpiling and high rate land application or disposal (nonfarm applications only) 5. landfilling of construction demolition material, including without limitation asphalt and concrete 6. contaminated soil or sediment storage, treatment, deposit or disposal 7. dry cleaning waste disposal

	<ul style="list-style-type: none"> 8. electrical equipment recycling 9. industrial waste lagoons or impoundments 10. industrial waste storage, recycling or landfilling 11. industrial woodwaste (log yard waste, hogfuel) disposal 12. mine tailings waste disposal 13. municipal waste storage, recycling, composting or landfilling 14. organic or petroleum material landspreading (landfarming) 15. sandblasting operations or sandblasting waste disposal 16. septic tank pumpage storage or disposal 17. sewage lagoons or impoundments 18. hazardous waste storage, treatment or disposal 19. sludge drying or composting 20. municipal or provincial road snow removal dumping or yard snow removal dumping 21. waste oil reprocessing, recycling or bulk storage 22. wire reclaiming operations
I	<p>Wood, pulp and paper products and related industries and activities</p> <ul style="list-style-type: none"> 1. particle or wafer board manufacturing 2. pulp mill operations 3. pulp and paper manufacturing 4. treated wood storage at the site of treatment 5. veneer or plywood manufacturing 6. wood treatment (antisapstain or preservation) 7. wood treatment chemical manufacturing, bulk storage

MATRIX 21 - NUMERICAL SOIL STANDARDS¹
METHANOL (CHEMICAL ABSTRACT SERVICE NUMBER 67-56-1)

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL_N)	Wildlands Reverted (WL_R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL_{LD})	Residential High Density (RL_{HD})	Commercial (CL)	Industrial (IL)	2
HUMAN HEALTH PROTECTION									
Intake of contaminated soil	40 000	40 000	20 000	40 000	20 000	40 000	150 000	> 1 000 mg/g	3
Groundwater used for drinking water	15	15	15	15	15	15	15	15	
ENVIRONMENTAL PROTECTION									
Toxicity to soil invertebrates and plants	750	1 000	1 000	1 000	1 000	1 500	1 500	1 500	4
Livestock ingesting soil and fodder			NS						5
Major microbial functional impairment			NS						5
Groundwater flow to surface water used by aquatic life	NS	NS	NS	NS	NS	NS	NS	NS	5
Groundwater used for livestock watering			NS						5
Groundwater used for irrigation			NS	NS	NS	NS			5

Notes

- All values in µg/g unless otherwise stated. Substances must be analyzed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternate methods acceptable to a director.

2. The site-specific factors of human intake of contaminated soil and toxicity to soil invertebrates and plants specified in this matrix apply at all sites. The high density residential land use standards of this matrix assume the prohibition of the use of the land (a) to grow plants for human consumption, and (b) as a children's playground, sports field, picnic area or any other use that promotes frequent contact by children. Consult a director for further advice.
3. Intake pathway of exposure modelled is inadvertent ingestion of soil.
4. AL, PL, CL and IL standards are set equal to the corresponding 2016 Draft Canadian Council of Ministers of the Environment (CCME) soil quality criteria. WL_N standard is derived by dividing the 2016 Draft CCME parkland soil quality criterion by the Protocol 28, "2016 Standards Derivation Methods", Wildlands divisor. WL_R standard is set equal to the 2016 Draft CCME parkland soil quality criterion. RL_{LD} standard is set equal to the 2016 Draft CCME residential soil quality criterion. RL_{HD} standard is set equal to the 2016 Draft CCME commercial soil quality criterion.
5. NS – no standard. Insufficient acceptable scientific data exists to calculate a standard, or no appropriate standard, guideline or criterion exists to develop a soil quality standard.

**MATRIX 25 - NUMERICAL SOIL STANDARDS^{1,2}
NONYLPHENOL AND NONYLPHENOL ETHOXYLATES
(CHEMICAL ABSTRACT SERVICE NUMBER N/A)**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6	COLUMN 7	COLUMN 8	COLUMN 9	Note
Site-specific Factor	Wildlands Natural (WL-N)	Wildlands Reverted (WL-R)	Agricultural (AL)	Urban Park (PL)	Residential Low Density (RL-LD)	Residential High Density (RL-HD)	Commercial (CL)	Industrial (IL)	3
HUMAN HEALTH PROTECTION Intake of contaminated soil	400	400	200	400	200	400	1 000	35 000	4
Groundwater used for drinking water	20	20	20	20	20	20	20	20	5
ENVIRONMENTAL PROTECTION Toxicity to soil invertebrates and plants	3.5	5.5	5.5	5.5	5.5	15	15	15	6
Livestock ingesting soil and fodder			NS						7
Major microbial functional impairment			NS						7
Groundwater flow to surface water used by aquatic life									
Freshwater	4	4	4	4	4	4	4	4	5
Marine	3	3	3	3	3	3	3	3	5
Groundwater used for livestock watering			NS						7

Groundwater used for irrigation			NS	NS	NS	NS			7
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Notes

1. All values in µg/g unless otherwise stated. Substances must be analyzed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternate methods acceptable to a director.
2. Nonylphenol includes related nonylphenolic and octylphenolic compounds, including ethoxylates. Consult a director for further advice.
3. The site-specific factors of human intake of contaminated soil and toxicity to soil invertebrates and plants specified in this matrix apply at all sites. The high density residential land use standards of this matrix assume the prohibition of the use of the land (a) to grow plants for human consumption, and (b) as a children's playground, sports field, picnic area or any other use that promotes frequent contact by children. Consult a director for further advice.
4. Intake pathway of exposure modelled is inadvertent ingestion of soil.
5. Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 - (a) item A6, A8, A10 or A12,
 - (b) item H11, H18 or H19, or
 - (c) item I2 or I3.
6. AL, PL, CL and IL standards are set equal to the corresponding 2002 Canadian Council of Ministers of the Environment (CCME) soil quality criteria. WL_N standard is derived by dividing the 2002 CCME parkland soil quality criterion by the Protocol 28, "2016 Standards Derivations Methods", Wildlands divisor. WL_R standard is set equal to the 2002 CCME parkland soil quality criterion. RL_{LD} standard is set equal to the 2002 CCME residential soil quality criterion. RL_{HD} standard is set equal to the 2002 CCME commercial soil quality criterion.
7. NS – no standard. Insufficient acceptable scientific data exists to calculate a standard, or no appropriate standard, guideline or criterion exists to develop a soil quality standard.

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
acnaphthene	83-32-9	60			250 ⁴
acephate	30560-19-1				15 ⁴
acetic acid, 2-methyl-4-chlorophenoxy- [MCPA]	94-74-6	26 ⁵ , 42 ⁶	0.025	25	100 ⁷
acetochlor	34256-82-1				80 ⁴
acetone	67-64-1				3 500 ⁴
acetophenone	98-86-2				400 ⁴
acridine	260-94-6	0.5			
acrolein	107-02-8	10		3 ⁸	3 ^{4,8}
acrylamide	79-06-1				0.1 ⁴
acrylic acid	79-10-7				2 000 ⁴
acrylonitrile	107-13-1				5 ^{4,8}
adipic acid	124-04-9				8 000 ⁴
alachlor	15972-60-8				3 ⁴
aldicarb	116-06-3	10 ⁵ , 1.5 ⁶	54.9 ⁹ , 67.5 ¹⁰	11	4 ⁴
aldicarb sulfone	1646-88-4				4 ⁴
aldrin	309-00-2	0.04 ¹¹		0.7 ¹¹	0.009 ⁴
allyl alcohol	107-18-6				20 ⁴
allyl chloride	107-05-1				7.5 ⁴
aluminum	7429-90-5		5 000	5 000	9 500 ^{12,13}
ametryn	834-12-8				35 ⁴
aminobiphenyl, 4-	92-67-1				0.0075 ⁴
aminophenol, 3-	591-27-5				300 ⁴
aminophenol, 4-	123-30-8				80 ⁴
amitraz	33089-61-1				10 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
ammonia, total (as N)	7664-41-7	1 310 @ pH ≥ 8.5 ^{5,14} 3 700 @ pH 8.0 - < 8.5 ^{5,14} 11 300 @ pH 7.5 - < 8.0 ^{5,14} 18 500 @ pH 7.0 - < 7.5 ^{5,14} 18 400 @ pH < 7.0 ^{5,14} 2 300 @ pH ≥ 8.5 ^{6,15} 6 850 @ pH 8.0 - < 8.5 ^{6,15} 20 000 @ pH 7.5 - < 8.0 ^{6,15} 64 000 @ pH 7.0 - < 7.5 ^{6,15} 200 000 @ pH < 7.0 ^{6,15}			
aniline	62-53-3	20			30 ⁴
anthracene	120-12-7	1			1000 ⁴
anthraquinone, 9,10-	84-65-1				4 ⁴
antimony	7440-36-0	90 ⁵ , 2 500 ⁶			6 ⁷
aramite	140-57-8				6 ⁴
arsenic	7440-38-2	50 ⁵ , 125 ⁶	100	25	10 ⁷
asbestos	1332-21-4				7 m.f./L ¹⁶
asulam	3337-71-1				200 ⁴
atrazine	1912-24-9	20 ⁵ , 100 ⁶	10	60	5 ⁷
auramine	492-80-8				0.2 ⁴
azinphos-methyl	86-50-0			20	20 ⁷
azobenzene	103-33-3				1.5 ⁴
azodicarbonamide	123-77-3				4 000 ⁴
barium	7440-39-3	10 000 ⁵ , 5 000 ⁶			1 000 ⁷
benfluralin	1861-40-1				1 000 ⁴
benomyl	17804-35-2				200 ⁴
bensulfuron-methyl	83055-99-6				800 ⁴
ben tazon	25057-89-0				100 ⁴
benz(a)anthracene	56-55-3	1			0.07 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
benzene	71-43-2	400 ⁵ , 1 000 ⁶			5 ⁷
benzidine	92-87-5				0.1 ^{4,8}
benzo(a)pyrene	50-32-8	0.1			0.01 ⁷
benzo(b,j)fluoranthenes	205-99-2 & 205-82-3				0.07 ⁴
benzoic acid	65-85-0				15 000 ⁴
benzotrichloride	98-07-7				0.5 ^{4,8}
benzyl alcohol	100-51-6				400 ⁴
benzyl chloride	100-44-7				0.9 ⁴
beryllium	7440-41-7	1.5 ⁵ , 1 000 ⁶	100	100	8 ⁴
bifenox	42576-02-3				35 ⁴
biphenyl, 1,1'-	92-52-4				2 000 ⁴
bis(2-chloroethoxy) methane	111-91-1				10 ⁴
bis(2-chloroethyl) ether	111-44-4				0.15 ⁴
bis(2-chloro-1-methylethyl) ether	108-60-1				150 ⁴
bis(2-ethylhexyl) adipate	103-23-1				150 ⁴
bis(2-ethylhexyl) phthalate [DEHP]	117-81-7	160			10 ⁴
bisphenol A	80-05-7				200 ⁴
boron	7440-42-8	12 000	500 - 6 000 ¹⁷	5 000	5 000 ⁷
bromacil	314-40-9	50	0.2 ¹⁸ , 0.6 ¹⁹	1 100	
bromate	15541-45-4				10 ⁷
bromo-2-chloroethane, 1-	107-04-0				1 ^{4,8}
bromobenzene	108-86-1				30 ⁴
bromodichloromethane [BDCM]	75-27-4			100	100 ^{7,20}
bromoform	75-25-2			100	100 ^{7,20}
bromomethane	74-83-9				5.5 ⁴
bromophos	2104-96-3				20 ⁴
bromoxynil	1689-84-5	50	0.35 ¹⁰	11	5 ⁷

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
butadiene, 1,3-	106-99-0				1 ^{4,8}
butanoic acid, 4-(4-chloro-2-methylphenoxy)- [MCPB]	94-81-5				40 ⁴
butanol, 2-	78-92-2				8 000 ⁴
butanol, n-	71-36-3				400 ⁴
butoxy ethanol, 2-	111-76-2				400 ⁴
butyl benzyl phthalate	85-68-7				80 ⁴
butyl phthalyl butyl glycolate	85-70-1				4 000 ⁴
butylate	2008-41-5				200 ⁴
butylated hydroxytoluene [BHT]	128-37-0				45 ⁴
butylbenzene, n-	104-51-8				200 ⁴
butylbenzene, sec-	135-98-8				400 ⁴
butylbenzene, tert-	98-06-6				400 ⁴
cacodylic acid	75-60-5				80 ⁴
cadmium	7440-43-9	0.5 @ H < 30 ^{5,21} 1.5 @ H 30 - < 90 ^{5,21} 2.5 @ H 90 - < 150 ^{5,21} 3.5 @ H 150 - < 210 ^{5,21} 4 @ H ≥ 210 ^{5,21} 15 ⁶	5	80	5 ⁷
calcium	7440-70-2			1 000 mg/L	
caprolactam	105-60-2				2 000 ⁴
captafol	2425-06-1				1 ⁴
captan	133-06-2	15		10	70 ⁴
carbaryl	63-25-2	2 ⁵ , 3 ⁶		1 100	90 ⁷
carbofuran	1563-66-2	18		45	90 ⁷
carbon disulfide	75-15-0				400 ⁴
carbon tetrachloride	56-23-5	130		5	2 ⁷
carbosulfan	55285-14-8				40 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
carboxin	5234-68-4				400 ⁴
catechol	120-80-9	2 000 ²²			
chloramben	133-90-4				60 ⁴
chloranil	118-75-2				0.4 ⁴
chlordane (cis + trans)	5103-71-9 & 5103-74-2	0.06		7	0.45 ⁴
chlordecone	143-50-0				0.015 ⁴
chlorfenvinphos	470-90-6				3 ⁴
chloride ion	16887-00-6	1 500 mg/L ⁵	100 mg/L ²³	600 mg/L	250 mg/L ^{7,24}
chlorimuron, ethyl-	90982-32-4				80 ⁴
chlorine (Cl ₂) ²⁵	7782-50-5	20 ⁵ , 30 ⁶	1 000		
chloro-2-methylamine, 4-	95-69-2				1.5 ⁴
chloroacetaldehyde, 2-	107-20-0				0.6 ⁴
chloroaniline, p-	106-47-8				0.8 ⁴
chlorobenzene	108-90-7	13 ⁵ , 250 ⁶			80 ^{7,13}
chlorobenzilate	510-15-6				1.5 ⁴
chlorobenzoic acid, 4-	74-11-3				100 ⁴
chlorobenzotrifluoride, 4-	5216-25-1				0.05 ^{4,8}
chlorobenzotrifluoride, 4-	98-56-6				10 ⁴
chlorobutane, 1-	109-69-3				150 ⁴
chloroethanol, 2-	107-07-3				80 ⁴
chloroform	67-66-3	20		100	100 ^{7,20}
chloronaphthalene, 2-	91-58-7				300 ⁴
chloronitrobenzene, 2-	88-73-3				0.5 ⁴
chloronitrobenzene, 4-	100-00-5				4 ⁴
chlorophenol, 2-	95-57-8	19.5 – 2 600 ²⁶		0.1 ^{24,27}	45 ^{12,13}
chlorophenol, 3-	108-43-0	17 – 2 300 ²⁶		0.1 ^{24,27}	
chlorophenol, 4-	106-48-9	8.5 – 1 180 ²⁶		0.1 ^{24,27}	

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
chloroprene	126-99-8				80 ⁴
chlorothalonil	1897-45-6	2 ⁵ , 4 ⁶	5.8	170	50 ⁴
chlorotoluene, 2-	95-49-8				80 ⁴
chlorotoluene, 4-	106-43-4				80 ⁴
chlorpropham	101-21-3				800 ⁴
chlorpyrifos	2921-88-2	0.02		24	90 ⁷
chlorpyrifos-methyl	5598-13-0				40 ⁴
chlorsulfuron	64902-72-3				200 ⁴
chlorthal-dimethyl	1861-32-1				40 ⁴
chlorthiophos	60238-56-4				3 ⁴
chromium, hexavalent ²⁸	18540-29-9	10 ⁵ , 15 ⁶	8	50	50 ⁷
chromium, trivalent ²⁸	16065-83-1	90 ⁵ , 560 ⁶	5	50	6 000 ⁴
chrysene	218-01-9	1			7 ⁴
clofentazine	74115-24-5				50 ⁴
cobalt	7440-48-4	40	50	1 000	1 ⁴
copper	7440-50-8	20 @ H < 50 ^{5,21} 30 @ H = 50 - < 75 ^{5,21} 40 @ H = 75 - < 100 ^{5,21} 50 @ H = 100 - < 125 ^{5,21} 60 @ H = 125 - < 150 ^{5,21} 70 @ H = 150 - < 175 ^{5,21} 80 @ H = 175 - < 200 ^{5,21} 90 @ H ≥ 200 ^{5,21} 20 ⁶	200	300	1 500 ^{12,13}
crotonaldehyde, trans-	123-73-9				5 ^{4,8}
cyanazine	21725-46-2	20	0.5	10	0.2 ⁴
cyanide	57-12-5	50 ^{5,29} , 10 ^{6,29}			200 ^{7,30}
cyanogen	460-19-5				4 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3				7 ⁴
cyclohexanone	108-94-1				20,000 ⁴
cyclohexene	110-83-8				20 ⁴
cyclohexylamine	108-91-8				800 ⁴
cyfluthrin	68359-37-5				100 ⁴
cyhalothrin	68085-85-8				20 ⁴
cypermethrin	52315-07-8				40 ⁴
cyromazine	66215-27-8				30 ⁴
dalapon	75-99-0				100 ⁴
daminozide	1596-84-5				8.5 ⁴
deltamethrin	52918-63-5	0.1 ⁸		2.5	
demeton	8065-48-3				0.15 ⁴
diallate	2303-16-4				2.5 ⁴
diaminotoluene, 2,5-	95-70-5				1 ⁴
diazinon	333-41-5	0.03		14	20 ⁷
dibenz(a,h)anthracene	53-70-3				0.01 ^{4,8}
dibenzofuran	132-64-9				4 ⁴
dibenzothiophene	132-65-0				40 ⁴
dibromo-3-chloropropane, 1,2-	96-12-8				0.5 ^{4,8}
dibromobenzene, 1,3-	108-36-1				1.5 ⁴
dibromobenzene, 1,4-	106-37-6				40 ⁴
dibromochloromethane [DBCMI]	124-48-1			100	100 ^{7,20}
dibromoethane, 1,2-	106-93-4				0.5 ^{4,8}
dibutyl phthalate [DBP]	84-74-2	190			400 ⁴
dibutyltin	14488-53-0	0.8			
dicamba	1918-00-9	100	0.1 ⁸	122	120 ⁷
dichlorobenzene, 1,2-	95-50-1	7 ⁵ , 420 ⁶			200 ^{7,13}

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
dichlorobenzene, 1,3-	541-73-1	1 500			
dichlorobenzene, 1,4-	106-46-7	260			5 ^{7,13}
dichlorobenzidine, 3,3'-	91-94-1				0.35 ⁴
dichlorodifluoromethane	75-71-8				800 ⁴
dichlorodiphenyl sulfone, 4,4'-	80-07-9				3 ⁴
dichlorodiphenyltrichloroethane, total [DDT] ³¹	NA ³²	0.01		30	0.45 ⁴
dichloroethane, 1,1-	75-34-3				30 ⁴
dichloroethane, 1,2-	107-06-2	1 000		5	5 ⁷
dichloroethylene, 1,1-	75-35-4				14 ⁷
dichloroethylene, 1,2-cis-	156-59-2				8 ⁴
dichloroethylene, 1,2-trans-	156-60-5				80 ⁴
dichloromethane	75-09-2	980		50	50 ⁷
dichlorophenol, 2,3-	576-24-9	5.5 – 7 60 ²⁶		0.3 ^{24,33}	
dichlorophenol, 2,4-	120-83-2	3 - 400 ²⁶		0.3 ^{24,33}	900 ^{7,13}
dichlorophenol, 2,5-	583-78-8	2.5 - 340 ²⁶		0.3 ^{24,33}	
dichlorophenol, 2,6-	87-65-0	10 - 1 360 ²⁶		0.3 ^{24,33}	
dichlorophenol, 3,4-	95-77-2	3 - 400 ²⁶		0.3 ^{24,33}	
dichlorophenol, 3,5-	591-35-5	2.5 - 300 ²⁶		0.3 ^{24,33}	
dichlorophenoxyacetic acid, 2,4-[2,4-D]	94-75-7	40		100	100 ⁷
dichlorophenoxy(2,4-)butyric acid, 4-[2,4-DB]	94-82-6				30 ⁴
dichloropropane, 1,2-	78-87-5				4.5 ⁴
dichloropropane, 1,3-	142-28-9				80 ⁴
dichloropropanol, 2,3-	616-23-9				10 ⁴
dichloropropene, 1,3- (cis + trans)	542-75-6				1.5 ⁴
dichlorvos	62-73-7				0.55 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
diclofop-methyl	51338-27-3	61	0.18	9	9 ⁷
dicrotophos	141-66-2				0.4 ⁴
dicyclopentadiene	77-73-6				300 ⁴
dieldrin	60-57-1	0.04 ^{1,1}		0.7	0.01 ⁴
diethanolamine	111-42-2				8 ⁴
diethyl ether	60-29-7				800 ⁴
diethyl phthalate	84-66-2				3 000 ⁴
diethyldithiocarbamate	392-74-5				0.6 ⁴
diethylene glycol monobutyl ether	112-34-5				100 ⁴
diethylene glycol monoethyl ether	111-90-0				250 ⁴
diethylformamide	617-84-5				4 ⁴
diflufenuron	35367-38-5				80 ⁴
disobutylene	25167-70-8				40 ⁴
diisopropanolamine [DIPA] ^{3,4}	110-97-4	15 000	39 000	38 000	3 500 ^{1,2}
dimethipin	55290-64-7				80 ⁴
dimethoate	60-51-5	62		3	20 ⁷
dimethoxybenzidine, 3,3'-	119-90-4				0.1 ⁴
dimethyl methylphosphonate	756-79-6				90 ⁴
dimethylaminoazobenzene, 4- [DAB]	60-11-7				0.035 ⁴
dimethylaniline, 2,4-	95-68-1				0.8 ⁴
dimethylaniline, N,N- [DMA]	121-69-7				8 ⁴
dimethylbenz(a)anthracene, 7,12-	57-97-6				0.02 ^{4,8}
dimethylbenzidine, 3,3'-	119-93-7				0.015 ⁴
dimethylformamide	68-12-2				400 ⁴
dimethylhydrazine, 1,1-	57-14-7				0.4 ⁴
dimethylphenol, 2,4-	105-67-9				80 ⁴
dimethylphenol, 2,6-	576-26-1				2.5 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
dimethylphenol, 3,4-	95-65-8				4 ⁴
dimethylterephthalate	120-61-6				400 ⁴
dinitrobenzene, 1,2-	528-29-0				0.4 ⁴
dinitrobenzene, 1,3-	99-65-0				0.4 ⁴
dinitrobenzene, 1,4-	100-25-4				0.4 ⁴
dinitro-o-cyclohexyl phenol, 4,6-	131-89-5				8 ⁴
dinitrophenol, 2,4-	51-28-5	2 000 ²²			8 ⁴
dinitrotoluene, 2,4-	121-14-2				0.5 ⁴
dinitrotoluene, 2,6-	606-20-2				0.1 ⁴
dinitrotoluene, 2-amino-4,6-	35572-78-2				8 ⁴
dinitrotoluene, 4-amino-2,6-	19406-51-0				8 ⁴
dinoseb	88-85-7	0.5	1 6 ²³ , 46 ²⁵ , 93 ¹⁹	150 ³⁶	4 ⁴
dioxane, 1,4-	123-91-1				1.5 ⁴
diphenamid	957-51-7				100 ⁴
diphenyl sulfone	127-63-9				3 ⁴
diphenyl-1,4-benzenediamine, N,N'-	74-31-7				1 ⁴
diphenylamine	122-39-4				100 ⁴
diquat (as dibromide)	85-00-7			70	70 ⁷
Direct Black 38	1937-37-7				0.02 ⁴
Direct Brown 95	16071-86-6				0.025 ⁴
disulfoton	298-04-4				0.15 ⁴
diuron	330-54-1			150	150 ⁷
dodine	2439-10-3				15 ⁴
endosulfan I + II	115-29-7	0.01 ^{5,8} , 0.015 ⁶			25 ⁴
endothall	145-73-3				80 ⁴
endrin	72-20-8	0.023		0.2	1 ⁴
EPHW10-19 ^{37,38}	NA ³²	5 000	5 000	5 000	5 000

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
EPTC	759-94-4				100 ⁴
ethanol, 2-(2-methoxyethoxy)-	111-77-3				150 ⁴
ethephon	16672-87-0				20 ⁴
ethinylestradiol, 17- α -[EE2] ^{3,9}	57-63-6	0.005			
ethion	563-12-2				2 ⁴
ethoxyethanol acetate, 2-	111-15-9				400 ⁴
ethoxyethanol, 2-	110-80-5				350 ⁴
ethyl acetate	141-78-6				3 500 ⁴
ethyl acrylate	140-88-5				20 ⁴
ethyl p-nitrophenyl benzenethionophosphonate [EPN]	2104-64-5				0.04 ⁴
ethylbenzene	100-41-4	2 000 ⁵ , 2 500 ⁶			140 ^{7,13}
ethylene cyanohydrin	109-78-4				300 ⁴
ethylenediamine	107-15-3				350 ⁴
ethylene glycol	107-21-1	1 920 mg/L			8 000 ⁴
ethylene thiourea	96-45-7				0.3 ⁴
ethyleneimine	151-56-4				0.1 ^{4,8}
fenamiphos	22224-92-6				1 ⁴
fenpropathrin	39515-41-8				100 ⁴
fenvalerate	51630-58-1				100 ⁴
flumeturon	2164-17-2				50 ⁴
fluoranthene	206-44-0	2			150 ⁴
fluorene	86-73-7	120			150 ⁴
fluoride	16984-48-8	2 000 @ H < 50 ^{5,21} 3 000 @ H \geq 50 ^{5,21} 15 000 ⁶	1 000	1 000 ⁴⁰	1 500 ⁷
fluridone	59756-60-4				300 ⁴
flurprimidol	56425-91-3				80 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
flusilazole	85509-19-9				3 ⁴
flutolanil	66332-96-5				250 ⁴
fluvialinate	69409-94-5				40 ⁴
folpet	133-07-3				45 ⁴
fomesafen	72178-02-0				0.8 ⁴
fonofos	944-22-9				8 ⁴
formaldehyde	50-00-0				800 ⁴
formic acid	64-18-6				3 500 ⁴
fosetyl	15845-66-6				10 000 ⁴
furan	110-00-9				4 ⁴
furazolidone	67-45-8				0.04 ⁴
furfural	98-01-1				10 ⁴
furmecyclox	60568-05-0				5 ⁴
furothiazole	531-82-8				0.1 ⁴
glufosinate	53369-07-6				1.5 ⁴
glycidaldehyde	765-34-4				1.5 ⁴
glyphosate	1071-83-6	5 000		280	280 ⁷
guanidine	113-00-8				40 ⁴
haloxyfop, methyl	69806-40-2				0.2 ⁴
heptachlor	76-44-8	0.1 ⁴¹		3 ⁴¹	0.035 ⁴
heptachlor epoxide	1024-57-3	0.1 ⁴¹		3 ⁴¹	0.015 ⁴
hexabromobiphenyl, 2,2',4,4',5,5'-	59536-65-1				0.005 ⁴
hexachlorobenzene	118-74-1			0.5	0.1 ⁴
hexachlorobutadiene	87-68-3	15			2 ⁴
hexachlorocyclohexane, alpha	319-84-6	0.1 ⁴²		4 ⁴²	0.025 ⁴
hexachlorocyclohexane, beta	319-85-7	0.1 ⁴²		4 ⁴²	0.085 ⁴
hexachlorocyclohexane, gamma	58-89-9	0.1 ⁴²		4 ⁴²	0.15 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
hexachlorocyclopentadiene	77-47-4				2.5 ⁴
hexachloroethane	67-72-1				3 ⁴
hexachlorophene	70-30-4				1 ⁴
hexahydro-1,3,5-trinitro-1,3,5-triazine [RDX]	121-82-4				1.5 ⁴
hexamethylphosphoramide	680-31-9				1.5 ⁴
hexanone, 2-	591-78-6				20 ⁴
hexazinone	51235-04-2				150 ⁴
hexythiazox	78587-05-0				100 ⁴
hydramethylhon	67485-29-4				1 ⁴
hydrazine	302-01-2				0.05 ⁴
hydroquinone	123-31-9	45 ²²			2.5 ⁴
imazalil	35554-44-0				50 ⁴
imazaquin	81335-37-7				1 000 ⁴
imazethapyr	81335-77-5				1 000 ⁴
iprodione	36734-19-7				150 ⁴
iron ^{43,44}	7439-89-6		5 000		6 500 ^{12,13}
isobutanol	78-83-1				1 000 ⁴
isophorone	78-59-1				150 ⁴
isopropalin	33820-53-0				60 ⁴
isopropanol	67-63-0				8 000 ⁴
isopropylbenzene	98-82-8				400 ⁴
isoxaben	82558-50-7				200 ⁴
lactofen	77501-63-4				8 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
lead	7439-92-1	40 @ H < 50 ^{5,21} 50 @ H = 50 - < 100 ^{5,21} 60 @ H = 100 - < 200 ^{5,21} 110 @ H = 200 - < 300 ^{5,21} 160 @ H ≥ 300 ^{5,21} 20 ⁶	200	100	10 ⁷
LEPHW ^{4,5}	NA ³²	500			
linuron	330-55-2	70	0.07 ¹⁸ , 3, 3 ¹⁹		8 ⁴
lithium	7439-93-2		2 500 ²³	5 000	8 ⁴
malathion	121-75-5	1		190	190 ⁷
malononitrile	109-77-3				0.4 ⁴
mancozeb	8018-01-7				100 ⁴
maneb	12427-38-2				20 ⁴
manganese ^{4,6,47}	7439-96-5		200		1 500 ^{12,13}
mecoprop [MCPP]	93-65-2				4 ⁴
mercury	7439-97-6	0.25	1	2	1 ⁷
merphos	150-50-5				0.1 ⁴
metalaxyl	57837-19-1				250 ⁴
methacrylonitrile	126-98-7				5 ^{4,8}
methamidophos	10265-92-6				0.2 ⁴
methanol	67-56-1				8 000 ⁴
methidathion	950-37-8				4 ⁴
methomyl	16752-77-5				100 ⁴
methoxy-5-nitroaniline, 2-	99-59-2				3 ⁴
methoxychlor	72-43-5			900	20 ⁴
methoxyethanol acetate, 2-	110-49-6				30 ⁴
methoxyethanol, 2-	109-86-4				20 ⁴
methyl acetate	79-20-9				4 000 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
methyl ethyl ketone [MEK]	78-93-3				2 500 ⁴
methyl hydrazine	60-34-4				4 ⁴
methyl mercury	22967-92-6	0.04			0.4 ⁴
methyl methacrylate	80-62-6				5 500 ⁴
methyl tert-butyl ether [MTBE]	1634-04-4	34 000 ⁵ , 4 400 ⁶		11 000	95 ^{1,2,13}
methyl-5-nitroaniline, 2-	99-55-8				15 ⁴
methylaniline, 2-	95-53-4				1 ⁴
methylaniline, 4-	106-49-0				5 ⁴
methylaniline, N-	100-61-8				8 ⁴
methylanthrene, 3-	56-49-5				0.02 ^{4,8}
methylene-bis(2-chloroaniline), 4,4'-	101-14-4				0.5 ⁴
methylene-bis(N,N-dimethyl) aniline, 4,4'-	101-61-1				3.5 ⁴
methylenebisbenzenamine, 4,4'-	101-77-9				0.1 ⁴
methylnaphthalene, 1-	90-12-0				5.5 ⁴
methylnaphthalene, 2-	91-57-6				15 ⁴
methylphenol, 2-	95-48-7	2 500 ²²			200 ⁴
methylphenol, 3-	108-39-4	800 ²²			200 ⁴
methylphenol, 4-	106-44-5	700 ²²			400 ⁴
methylphenol, 4-chloro-3-	59-50-7				400 ⁴
methylstyrene, alpha-	98-83-9				300 ⁴
metolachlor	51218-45-2	80	28	50	50 ⁷
metribuzin	21087-64-9	10	0.5	80	80 ⁷
met sulfuron-methyl	74223-64-6				1 000 ⁴
mirex	2385-85-5				0.0085 ⁴
molinate	2212-67-1				8 ⁴
molybdenum	7439-98-7	10 000	10 – 30 ¹⁸	50	250 ⁴⁹
monochloramine ²⁵	10599-90-3	5			3 000 ⁷

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
monochloroacetic acid	79-11-8				80 ^{7,50}
monomethylarsonic acid	124-58-3				40 ⁴
myclobutamil	88671-89-0				100 ⁴
naled	300-76-5				8 ⁴
naphthalene	91-20-3	10			80 ⁴
naphthylamine, 2-	91-59-8				0.085 ⁴
naproxamide	15299-99-7				400 ⁴
nickel	7440-02-0	250 @ H < 60 ^{5,21} 650 @ H 60 - < 120 ^{5,21} 1 100 @ H 120 - < 180 ^{5,21} 1 500 @ H ≥ 180 ^{5,21} 83 ⁶	200	1 000	80 ⁴
nitrate (as N)	14797-55-8	400 mg/L ⁵¹		100 mg/L ⁵²	10 mg/L ^{5,52}
nitrate and nitrite (as N)	NA ³²	400 mg/L ⁵¹		100 mg/L ⁵²	10 mg/L ^{7,52}
nitriotrionic acid [NTA]	139-13-9				400 ⁷
nitrite (as N)	14797-65-0	200 (Cl < 2 mg/L) ⁵³ 400 (Cl 2 - < 4 mg/L) ⁵³ 600 (Cl 4 - < 6 mg/L) ⁵³ 800 (Cl 6 - < 8 mg/L) ⁵³ 1 000 (Cl 8 - < 10 mg/L) ⁵³ 2 000 (Cl ≥ 10 mg/L) ⁵³		10 000	1 000 ⁷
nitroaniline, 2-	88-74-4				40 ⁴
nitroaniline, 4-	100-01-6				8 ⁴
nitrobenzene	98-95-3				8 ⁴
nitrofurazone	59-87-0				0.1 ⁴
nitroglycerin	55-63-0				0.4 ⁴
nitroguanidine	556-88-7				400 ⁴
nitropyrene, 4-	57835-92-4				0.15 ⁴
nitrosodihanolamine, N-	1116-54-7				0.055 ⁴
nitrosodiethylamine, N- [NDEA]	55-18-5				0.005 ^{4,8}

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
nitrosodimethylamine, N- [NDMA]	62-75-9				0.04 ⁷
nitroso-di-N-butylamine, N-	924-16-3				0.03 ⁴
nitroso-di-N-propylamine, N-	621-64-7				0.02 ⁴
nitrosodiphenylamine, N-	86-30-6				30 ⁴
nitrosomethyl/ethylamine, N-	10595-95-6				0.007 ⁴
nitrosomorpholine, N-	59-89-2				0.025 ⁴
nitrosopiperidine, N-	100-75-4				0.015 ⁴
nitrosopyrrolidine, N-	930-55-2				0.075 ⁴
nitrotoluene, 2-	88-72-2				0.7 ⁴
nitrotoluene, 3-	99-08-1				0.4 ⁴
nitrotoluene, 4-	99-99-0				10 ⁴
nonane, n-	111-84-2				1 ⁴
nonaqueous phase liquids ^{37,54}	NA ³²	not present	not present	not present	not present
nonylphenol and nonylphenol ethoxylates ^{55,56}	84852-15-3	10 ⁵ , 7 ⁶			45 ¹²
norflurazon	27314-13-2				150 ⁴
octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine [HMX]	2691-41-0				200 ⁴
octamethylpyrophosphoramide [OMPA]	152-16-9				8 ⁴
octyl phthalate, di-N- [DNOP]	117-84-0				40 ⁴
oryzalin	19044-88-3				200 ⁴
oxadiazon	19666-30-9				20 ⁴
oxamyl	23135-22-0				100 ⁴
oxyfluorfen	42874-03-3				10 ⁴
paclobutrazol	76738-62-0				50 ⁴
paraquat (as dichloride)	1910-42-5			10	10 ⁷
parathion	56-38-2			50	25 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
parathion, methyl	298-00-0				1 ⁴
pebulate	1114-71-2				200 ⁴
pendimethalin	40487-42-1				150 ⁴
pentachlorobenzene, 1,2,3,4,5-	608-93-5	60			3 ⁴
pentachloroethane	76-01-7				1.5 ⁴
pentachloronitrobenzene [PCNB]	82-68-8				0.6 ⁴
pentachlorophenol [PCP]	87-86-5	1 – 110 ^{5,6}		30 ^{2,4}	60 ^{7,13}
pentaerythritol tetranitrate [PETN]	78-11-5				8 ⁴
perchlorate	14797-73-0				3 ⁴
perfluorobutane sulfonate [PFBS] ³⁷	375-73-5				80 ⁴
perfluorooctane sulfonate [PFOS] ³⁷	1763-23-1	60			0.3 ¹²
perfluorooctanoic acid [PFOA] ³⁷	335-67-1				0.2 ¹²
permethrin (cis + trans)	52645-53-1	0.04 ⁵ , 0.01 ⁶			450 ¹²
phenanthrene	85-01-8	3			
phenmedipham	13684-63-4				1 000 ⁴
phenol	108-95-2	2 000 ²²			1 000 ⁴
phenol, 2-methyl-4,6-dinitro [DNOC]	534-52-1	750 ²²			1 ^{4,8}
phenothiazine	92-84-2				2 ⁴
phenylenediamine, m- [MPD]	108-45-2				25 ⁴
phenylenediamine, o- [OPD]	95-54-5				3.5 ⁴
phenylenediamine, p- [PPD]	106-50-3				750 ⁴
phenylphenol, 2-	90-43-7				80 ⁴
phorate	298-02-2			2	2 ⁷
phosmet	732-11-6				80 ⁴
phthalic acid, p-	100-21-0				4 000 ⁴
picloram	1918-02-1	290	0.5	190	190 ⁷
picramic acid	96-91-3				0.4 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
picric acid	88-89-1				3, 5 ⁴
pirimiphos, methyl	29232-93-7				40 ⁴
prochloraz	67747-09-5				1 ⁴
profluralin	26399-36-0				25 ⁴
prometon	1610-18-0				60 ⁴
prometryn	7287-19-6				15 ⁴
propachlor	1918-16-7				50 ⁴
propanil	709-98-8				20 ⁴
propargite	2312-35-8				80 ⁴
propargyl alcohol	107-19-7				8 ⁴
propazine	139-40-2				80 ⁴
propham	122-42-9				80 ⁴
propiconazole	60207-90-1				50 ⁴
propylbenzene, 1-	103-65-1				400 ⁴
propylene glycol, 1,2-	57-55-6	5 000 mg/L			80 mg/L ⁴
propylene glycol monomethyl ether	107-98-2				3 000 ⁴
propylene oxide	75-56-9				0.65 ⁴
propylamide	23950-58-5				300 ⁴
pyrene	129-00-0	0.2			100 ⁴
pyridine	110-86-1				4 ⁴
quinalphos	13593-03-8				2 ⁴
quinoline	91-22-5	34			0.05 ⁴
quizalofop-ethyl	76578-14-8				35 ⁴
resmethrin	10453-86-8				100 ⁴
resorcinol	108-46-3	150 ²²			4 500 ¹²
ronnel	299-84-3				200 ⁴
rotenone	83-79-4				15 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
salinity ⁵⁸	NA ³²	15 ^{5,59,60} 10 if natural salinity is 0 - < 3.5 ^{6,59,61} 20 if natural salinity is 3.5 - < 13.5 ^{6,59,61} 40 if natural salinity is 13.5 - ≥ 35 ^{6,59,61}			
selenious acid	7783-00-8				20 ⁴
selenium	7782-49-2	20	20 ⁶² , 50 ⁶³	30	10 ⁶⁴
sethoxydim	74051-80-2				350 ⁴
silver	7440-22-4	0.5 @ H ≤ 100 ^{5,21} 15 @ H > 100 ^{5,21}			20 ⁴
silvex	93-72-1	15 ⁶			30 ⁴
simazine	122-34-9	100	0.5	10	10 ⁷
sodium ion	17341-25-2				200 mg/L ¹²
strontium	7440-24-6				2 500 ⁴
strychnine	57-24-9				1 ⁴
styrene	100-42-5	720			800 ⁴
styrene-acrylonitrile [SAN] trimer (all isomers)	NA ³²				10 ⁴
sulfate	14808-79-8	1 280 mg/L @ H ≤ 30 ²¹ 2 180 mg/L @ H 31 - 75 ²¹ 3 090 mg/L @ H 76 - 180 ²¹ 4 290 mg/L @ H > 180 ²¹		1 000 mg/L	500 mg/L ^{7,24}
sulfide (as H ₂ S) ⁶⁵	7783-06-4	20			50 ^{7,24}
sulfolane ³⁴	126-33-0	500 000	8 400	14 000	90 ¹²
sulfotep	3689-24-5				2 ⁴
TCMTB	21564-17-0				100 ⁴
tebutiuron	34014-18-1	16	0.25 ¹⁹	130	300 ⁴
temephos	3383-96-8			280	80 ⁴

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
terbacil	5902-51-2				50 ⁴
terbufos	13071-79-9			1	1 ⁷
terbutryn	886-50-0				4 ⁴
tetrachlorobenzene, 1,2,3,4-	634-66-2	18			
tetrachlorobenzene, 1,2,4,5-	95-94-3				1 ⁴
tetrachloroethane, 1,1,1,2-	630-20-6				6 ⁴
tetrachloroethane, 1,1,2,2-	79-34-5				0.8 ⁴
tetrachloroethylene	127-18-4	1 100			30 ⁷
tetrachlorophenol, 2,3,4,5-	4901-51-3	2 - 260 ⁵		1 ^{24,66}	
tetrachlorophenol, 2,3,4,6-	58-90-2	5.5 - 720 ²⁶		1 ^{24,66}	100 ^{7,13}
tetrachlorophenol, 2,3,5,6-	935-95-5	2.5 - 340 ²⁶		1 ^{24,66}	
tetrachlorovinphos	961-11-5				6.5 ⁴
tetraethyl lead	78-00-2				0.001 ^{4,8}
tetrahydrofuran	109-99-9				3 500 ⁴
tetryl	479-45-8				8 ⁴
thallium	7440-28-0	3			
thiifensulfuron-methyl	79277-27-3				50 ⁴
thiobencarb	28249-77-6				40 ⁴
thiocyanate	302-04-5				200 ⁸
thiodiglycol	111-48-8				300 ⁴
thiofanox	39196-18-4				1 ⁴
thiophanate, methyl	23564-05-8				300 ⁴
thiophenol	108-98-5				4 ⁴
thiram	137-26-8				20 ⁴
tin	7440-31-5				2 500 ⁴
titanium	7440-32-6	1 000			
toluene	108-88-3	5 ⁵ , 2 000 ⁶			60 ^{7,13}

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
toxaphene (all isomers)	8001-35-2	0.08		5	0.15 ⁴
tralomethrin	66841-25-6				30 ⁴
triadimefon	43121-43-3				100 ⁴
triallate	2303-17-5	2.4		230	50 ⁴
triasulfuron	82097-50-5				40 ⁴
tribenuron-methyl	101200-48-0				30 ⁴
tribromobenzene, 1,2,4-	615-54-3				20 ⁴
tribufos	78-48-8				0.1 ⁴
tributyl phosphate	126-73-8				15 ⁴
tributyltin	36643-28-4	0.08 ⁵ , 0.05 ^{6,8}		250	
trichloro-1,1,2-trifluoroethane, 1,1,2-	76-13-1				100 000 ⁴
trichloroaniline, 2,4,6-	634-93-5				0.1 ⁴
trichlorobenzene, 1,2,3-	87-61-6	80			3 ⁴
trichlorobenzene, 1,2,4-	120-82-1	240 ⁵ , 54 ⁶			5.5 ⁴
trichloroethane, 1,1,1-	71-55-6				8 000 ⁴
trichloroethane, 1,1,2-	79-00-5				3 ⁴
trichloroethylene	79-01-6	200		50	5 ⁷
trichlorofluoromethane	75-69-4				1 000 ⁴
trichlorophenol, 2,3,4-	15950-66-0	2.5 – 320 ²⁶		2 ^{24,67}	
trichlorophenol, 2,3,5-	933-78-8	2.5 – 340 ²⁶		2 ^{24,67}	
trichlorophenol, 2,3,6-	933-75-5	8 – 1 080 ²⁶		2 ^{24,67}	
trichlorophenol, 2,4,5-	95-95-4	2.5 – 300 ²⁶		2 ^{24,67}	400 ⁴
trichlorophenol, 2,4,6-	88-06-2	6 – 800 ²⁶		2 ^{24,67}	5 ^{7,13}
trichlorophenol, 3,4,5-	609-19-8	1 – 128 ²⁶		2 ^{24,67}	
trichlorophenoxy acetic acid, 2,4,5-[2,4,5-T]	93-76-5			20	40 ⁴
trichloropropane, 1,1,2-	598-77-6				20 ⁴
trichloropropane, 1,2,3-	96-18-4				0.5 ^{4,8}

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
trichloropropene, 1,2,3-	96-19-5				10 ⁴
tricresyl phosphate [TCP]	1330-78-5				80 ⁴
tricyclohexyltin	NA ³²			250	
tridiphane	58138-08-2				10 ⁴
triethylene glycol	112-27-6				8 000 ⁴
triethyltin	NA ³²	4			
trifluralin	1582-09-8	2		45	45 ⁷
trimethyl phosphate	512-56-1				8 ⁴
trimethylbenzene, 1,3,5-	108-67-8				40 ⁴
trinitrobenzene, 1,3,5-	99-35-4				100 ⁴
trinitrotoluene, 2,4,6-	118-96-7				2 ⁴
triphenyltin	668-34-8	0.2		800	
tris(1,3-dichloro-2-propyl)phosphate [TDCPP]	13674-87-8				80 ⁴
tris(1-chloro-2-propyl)phosphate [TCPP]	13674-84-5				40 ⁴
tris(2,3-dibromopropyl)phosphate	126-72-7				0.07 ⁴
tris(2-chloroethyl)phosphate [TCEP]	115-96-8				8 ⁴
tris(2-ethylhexyl)phosphate	78-42-2				50 ⁴
tungsten	7440-33-7				3 ⁴
uranium	7440-61-1	85	10	200	20 ⁷
vanadium	7440-62-2		100	100	20 ⁴
vernalate	1929-77-7				4 ⁴
VHw6-10 ^{37,68}	NA ³²	15 000	15 000	15 000	15 000
vinclozolin	50471-44-8				100 ⁴
vinyl acetate	108-05-4				4 000 ⁴
vinyl chloride	75-01-4				2 ⁷
VPHw ⁶⁹	NA ³²	1 500			

SCHEDULE 3.2

GENERIC NUMERICAL WATER STANDARDS¹

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service # (CAS)	Aquatic Life² (AW)	Irrigation² (IW)	Livestock² (LW)	Drinking Water³ (DW)
warfarin	81-81-2				1 ⁴
xylenes, total	1330-20-7	300			90 ⁷
zinc	7440-66-6	75 @ H < 90 ^{5,21} 150 @ H = 90 - < 100 ^{5,21} 900 @ H = 100 - < 200 ^{5,21} 1 650 @ H = 200 - < 300 ^{5,21} 2 400 @ H = 300 - < 400 ^{5,21} 100 ⁶	1 000 @ pH < 6.0 ⁷⁰ 2 000 @ pH 6.0 - < 7.0 ⁷⁰ 5 000 @ pH ≥ 7.0 ⁷⁰	2 000	3 000 ¹²
zineb	12122-67-7				200 ⁴

Notes

- 1 All values are in µg/L unless otherwise stated. Substances must be analyzed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternative methods acceptable to a director.
- 2(a) Aquatic life standards assume minimum 1:10 dilution is available. Aquatic life standards are to protect freshwater and marine life unless otherwise indicated.
- 2(b) Standards for all organic substances are for total substance concentrations. Any water sample to be analyzed for organic substances should not be filtered.
- 2(c) Standards for surface water samples to be analyzed for heavy metals, metalloids and inorganic ions are total substance concentrations. In addition, it is recommended that surface water samples being analyzed for heavy metals, metalloids and inorganic ions should also be analyzed for dissolved substance concentrations.
- 2(d) Standards for groundwater samples for heavy metals, metalloids and inorganic ions are for dissolved substance concentrations. In addition, it is recommended that groundwater samples being analyzed for heavy metals, metalloids and inorganic ions should also be analyzed for total substance concentrations.
- 2(e) Standards for irrigation water apply to irrigation of all soil types, unless otherwise indicated.
- 3 Drinking water standards are for unfiltered samples obtained at the point of consumption. Heavy metals, metalloids and inorganic ions are expressed as total substance concentrations unless otherwise indicated.
- 4 Standard is based on the 2015 United States (US) Environmental Protection Agency (EPA) "Regional Screening Levels" for tapwater. The EPA Regional Screening Levels for both non-carcinogenic and carcinogenic substances reflect the 1996 "Overview of CSST Procedures for the Derivation of Soil Quality Matrix Standards for Contaminated Sites" 20% (i.e., 0.2) Toxicity Reference Value (TRV) apportionment for drinking water exposure. For carcinogenic substances, the EPA Regional Screening Level is also adjusted to reflect section 18 (3) (a) of this regulation, with a human lifetime cancer risk of less than or equal to one in 100 000.
- 5 Standard to protect freshwater aquatic life.
- 6 Standard to protect marine and estuarine aquatic life.
- 7 Standard is set equal to the 2014 Health Canada "Guidelines for Canadian Drinking Water Quality" for the substance.

- 8 Standard is set equal to the 2016 British Columbia Environmental Laboratory Technical Advisory Committee reference analytical detection limit for the substance.
- 9 Standard to protect crops other than legumes.
- 10 Standard to protect legumes.
- 11 Standard is applicable to the sum of the concentration of aldrin and dieldrin.
- 12 Standard is specific to protection of human health. Standard is derived with TRV protective of adults. Standard may not adequately protect other age groups.
- 13 Standard may not address aesthetic (organoleptic) concerns related to drinking water quality. Water treatment may be required.
- 14 Standard varies with pH and temperature. 10°C is assumed. Consult a director for further advice.
- 15 Standard varies with pH, temperature and salinity. 10 °C and 10 practical salinity units (psu) are assumed. Consult a director for further advice.
- 16 Standard is expressed in million fibres > 10µm/L (m.f./L). Standard is set equal to the 2010 US EPA *Safe Drinking Water Act*, National Primary Drinking Water Regulations standard for the substance.
- 17 Standard varies depending on crop as follows:

Crop	Standards (µg/L)
blackberry	500
barley, cherry, cowpea, garlic, grape, Jerusalem artichoke, kidney bean, lima bean, mung bean, onion, peach, plum, sesame, strawberry, sunflower, sweet potato, wheat	1 000
carrot, cucumber, pea, potato, radish, red pepper	2 000
artichoke, bluegrass (Kentucky), cabbage, celery, clover, corn, lettuce, muskmelon, mustard, oat, squash, tobacco, tumip	4 000
alfalfa, asparagus, parsley, purple vetch, red beet, sorghum, sugar beet, tomato	6 000

- 18 Standard to protect crops other than cereals, tame hays and pasture.
- 19 Standard to protect cereals, tame hays and pasture crops.
- 20 Standard is specific for total trihalomethanes. Sum of the concentrations of bromodichloromethane (BDCM), dibromochloromethane (DBCM), bromoform (tribromomethane), and chloroform (trichloromethane) must not exceed the standard specified.
- 21 H mean water hardness in mg/L CaCO₃.
- 22 Standard derived by the British Columbia Ministry of Environment, Land Remediation Section in accordance with CSR Protocol 28, "2016 Standards Derivation Methods".
- 23 Standard to protect all types of crops.
- 24 Standard to protect against taste and odour concerns.
- 25 Substance is extremely labile in water. Extended hold times are inappropriate. It is recommended that samples be analyzed in the field or immediately upon receipt by the laboratory.
- 26 Standard varies with pH, temperature and substance isomer. Consult a director for further advice.
- 27 Standard is applicable to the sum of concentrations of all chlorophenol isomers.
- 28 Analytical results for chromium (all species) in water may be used to demonstrate compliance with the standards. Where the standards cannot be met based on analytical results for chromium (all species), chromium speciation may be necessary.
- 29 To demonstrate compliance with the aquatic life (AW) standard, samples for cyanide in water must be analyzed using the appropriate "Cyanide Weak Acid Dissociable (WAD)" analytical method for water specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time.
- 30 To demonstrate compliance with the drinking water (DW) standard, samples for cyanide in water must be analyzed using the appropriate "Cyanide Strong Acid Dissociable (SAD)" analytical method for water specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time.
- 31 Standards are for the sum of DDT (2,4' + 4,4' isomers), DDD (2,4' + 4,4' isomers), and DDE(2,4' + 4,4' isomers).
- 32 NA – not applicable. No CAS number exists for the substance.

- 33 Standard is applicable to the sum of concentrations of all dichlorophenol isomers.
- 34 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item F2, F3, F7, or F10.
- 35 Standard to protect cereal crops and hay.
- 36 Standard to protect lactating dairy animals.
- 37 Standard is applicable at all sites, irrespective of water use.
- 38 EPHw10-19 – Extractable Petroleum Hydrocarbons (nC10-nC19) in water, as defined in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time.
- 39 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H18 or H19.
- 40 Standard varies with type of livestock. Consult a director for further advice.
- 41 Standard is applicable to the sum of the concentrations of heptachlor and heptachlor epoxide.
- 42 Standard is applicable to the sum of the concentrations of all hexachlorocyclohexane isomers.
- 43 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
- item A6, A7, A8, or A11,
 - item C1, C2, C3, C4, or C6,
 - item D2, D3, D5 or D6,
 - item E4, or
 - item H14.
- 44 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20, but only if the site was used for that purpose or activity in conjunction with, or as a result of, the site also being used for at least one of the purposes or activities set out in Note 43.
- 45 LEPHw – Light Extractable Petroleum Hydrocarbons in water, as defined in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time.
- 46 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
- item B1,
 - item C1, C3 or C4,
 - item D2, D3, D5 or D6,
 - item E4, or
 - item H3 or H14.
- 47 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as item H11 or H20 but only if the site was used for that purpose or activity in conjunction with, or as a result of, the site also being used for at least one of the purposes or activities set out in Note 46.
- 48 Standard varies with crop, soil drainage and Mo:Cu ratio. Consult a director for further advice.
- 49 Standard is set equal to 1986 British Columbia Ministry of Environment drinking water quality guideline for the substance.
- 50 Standard is specific for total haloacetic acids. Sum of the concentrations of monochloroacetic acid (MCA), dichloroacetic acid (DCA), trichloroacetic acid (TCA), monobromoacetic acid (MBA) and dibromoacetic acid (DBA) must not exceed the standard specified.
- 51 Standard may not protect all amphibians. Consult a director for further advice.
- 52 Where nitrate and nitrite are present, total nitrate plus nitrite-nitrogen should not exceed this value.
- 53 Standard varies with chloride concentration. Consult a director for further advice.
- 54 Water must be remediated so that nonaqueous phase liquids are not present in quantities in excess of those acceptable to a director.
- 55 Nonylphenol includes related nonylphenolic and octylphenolic compounds, including ethoxylates. Consult a director for further advice.
- 56 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
- item A6, A8, A10 or A12,
 - item H11, H18 or H19, or
 - item I2 or I3.

- 57 Standards apply to a site used for an industrial or commercial purpose or activity set out in Schedule 2 as
 (a) item A4,
 (b) item C3,
 (c) item E10, or
 (d) item G1.
- 58 Standard is for salinity measurements by electrical conductivity or density methods using the Practical Salinity Scale, which closely equates to concentration units of parts per thousand (g/kg or g/L). Salinity measurements using the Practical Salinity Scale may be denoted as Practical Salinity Units (psu).
- 59 Standard applies only if minimum 1:10 dilution is available in receiving waterbody.
- 60 Freshwater is defined as water having a natural salinity < 1.5 psu.
- 61 Standard varies with natural salinity of receiving waterbody.
- 62 Standard for continuous application on crops.
- 63 Standard for intermittent application on crops.
- 64 Standard is set equal to 2014 British Columbia Ministry of Environment drinking water quality guideline for the substance.
- 65 Standard is for un-ionized sulfide (as H₂S). Measurement of either total or dissolved sulfide (as H₂S) may be used to demonstrate compliance with the standards. Where the standards cannot be met by measuring total or dissolved sulfide (as H₂S), determination of un-ionized sulfide (as H₂S) may be necessary.
- 66 Standard is applicable to the sum of concentrations of all tetrachlorophenol isomers.
- 67 Standard is applicable to the sum of concentrations of all trichlorophenol isomers.
- 68 VHW6-10 – Volatile Hydrocarbons (nC6-nC10) in water, as defined in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time.
- 69 VPHw – Volatile Petroleum Hydrocarbons in water, as defined in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time.
- 70 Standard varies with soil pH.

SCHEDULE 3.3
GENERIC NUMERICAL VAPOUR STANDARDS^{1,2,3,4,5}

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard ⁶	Commercial Use Standard ⁷	Industrial Use Standard ⁸	Parkade Use Standard ⁹
acetaldehyde	75-07-0	4.5	1.5	40	35
acetone	67-64-1	2 000	5 500	35 000	15 000
acetone cyanohydrin	75-86-5	2	6	20	15
acetonitrile	75-05-8	60	200	550	500
acrolein	107-02-8	0.2 ¹⁰	0.2 ¹⁰	0.2 ¹⁰	0.2 ¹⁰
acrylonitrile	107-13-1	0.5 ¹⁰	0.5 ¹⁰	1.5	1
allyl chloride	107-05-1	1	3	9	8
ammonia (as N)	7664-41-7	100	300	900	800
benzene	71-43-2	1.5	4	10	10
benzotrithloride	98-07-7	1 ¹⁰	1 ¹⁰	1 ¹⁰	1 ¹⁰
benzyl chloride	100-44-7	0.2	0.6	2	1.5
bis(2-chloro-1-methylethyl) ether	108-60-1	80	250	1 500	650
bis(2-chloroethyl) ether	111-44-4	1 ¹⁰	1 ¹⁰	1 ¹⁰	1 ¹⁰
bis(2-chloromethyl) ether	542-88-1	1 ¹⁰	1 ¹⁰	1 ¹⁰	1 ¹⁰
bromobenzene	108-86-1	60	200	550	500
bromodichloromethane [BDCM]	75-27-4	40	100	800	300
bromoform	75-25-2	9	30	85	75
bromomethane	74-83-9	5	15	45	40
butadiene, 1,3-	106-99-0	2 ¹⁰	2 ¹⁰	3	2.5
carbon disulfide	75-15-0	700	2 000	6 500	5 500
carbon tetrachloride	56-23-5	1.5	5	15	15
chlorine (Cl ₂)	7782-50-5	20 ¹⁰	20 ¹⁰	20 ¹⁰	20 ¹⁰
chloro-1,1-difluoroethane, 1-	75-68-3	50 000	150 000	450 000	400 000
chlorobenzene	108-90-7	10	30	90	80
chlorobenzotrifluoride, 4-	98-56-6	15	40	100	100
chlorobutane, 1-	109-69-3	80	250	1 500	650
chlorodifluoromethane	75-45-6	50 000	150 000	450 000	400 000

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard ⁶	Commercial Use Standard ⁷	Industrial Use Standard ⁸	Parkade Use Standard ⁹
chloroethane	75-00-3	10 000	30 000	90 000	80 000
chloroform	67-66-3	100	300	900	800
chloromethane	74-87-3	90	250	800	700
chloronitrobenzene, 4-	100-00-5	1 ¹⁰	2	5.5	5
chlorophenol, 2-	95-57-8	10	30	200	80
chloroprene	126-99-8	1 ¹⁰	1 ¹⁰	1 ¹⁰	1 ¹⁰
chloropropane, 2-	75-29-6	60	150	1 000	450
chlorotoluene, 2-	95-49-8	40	100	800	300
crotonaldehyde, trans-	123-73-9	2	6	40	15
cyanide	57-12-5	2 ¹⁰	3.5	25	9.5
cyanoen	460-19-5	10 ¹⁰	10 ¹⁰	40	15
cyanogen bromide	506-68-3	200	550	3 500	1 500
cyanogen chloride	506-77-4	100	300	2 000	800
dibromo-3-chloropropane, 1,2-	96-12-8	1 ¹⁰	1 ¹⁰	2	1.5
dibromobenzene, 1,4-	106-37-6	20	60	400	150
dibromochloromethane [DBCM]	124-48-1	40	100	800	300
dibromoethane, 1,2-	106-93-4	0.5 ¹⁰	0.5 ¹⁰	0.5 ¹⁰	0.5 ¹⁰
dibromomethane	74-95-3	4	10	35	30
dichloro-2-butene, 1,4-	764-41-0	1 ^{10,11}	1 ^{10,11}	1 ^{10,11}	1 ^{10,11}
dichlorobenzene, 1,2-	95-50-1	200	600	2 000	1 500
dichlorobenzene, 1,3-	541-73-1	60	200	1 000	500
dichlorobenzene, 1,4-	106-46-7	800	2 500	7 500	6 500
dichlorodifluoromethane	75-71-8	100	300	900	800
dichloroethane, 1,1-	75-34-3	500	1 500	4 500	4 000
dichloroethane, 1,2-	107-06-2	7	20	65	55
dichloroethylene, 1,1-	75-35-4	200	600	2 000	1 500
dichloroethylene, 1,2- cis	156-59-2	60	200	550	500
dichloroethylene, 1,2- trans	156-60-5	60	200	550	500
dichloromethane	75-09-2	600	2 000	5 500	5 000
dichloropropane, 1,2-	78-87-5	4	10	35	30

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard ⁶	Commercial Use Standard ⁷	Industrial Use Standard ⁸	Parkade Use Standard ⁹
dichloropropane, 1,3-	142-28-9	1	3	20	8
dichloropropene, 1,3- (cis + trans)	542-75-6	2.5	7.5	2.5	20
dicyclopentadiene	77-73-6	1 ¹⁰	1 ¹⁰	2.5	2.5
diethyl ether	60-29-7	400	1 000	8 000	3 000
dimethylamine	124-40-3	1 ¹⁰	1 ¹⁰	1 ¹⁰	1 ¹⁰
dimethylamine, N,N- [DMA]	121-69-7	4	10	80	30
epichlorohydrin	106-89-8	1	3	9	8
epoxybutane, 1,2-	106-88-7	20	60	200	150
ethyl acetate	141-78-6	70	200	650	550
ethyl acrylate	140-88-5	8	25	75	65
ethyl methacrylate	97-63-2	300	900	2 500	2 500
ethylbenzene	100-41-4	1 000	3 000	9 000	8 000
ethylene oxide	75-21-8	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰
furan	110-00-9	2	6	40	15
hexachlorobutadiene	87-68-3	1 ¹⁰	1.5	4	3.5
hexachlorocyclopentadiene	77-47-4	1 ¹⁰	1 ¹⁰	2	1.5
hexachloroethane	67-72-1	30	90	250	250
isopropylbenzene	98-82-8	400	1 000	3 500	3 000
methacrylonitrile	126-98-7	30	90	250	250
methyl acetate	79-20-9	2 000	6 000	40 000	15 000
methyl acrylate	96-33-3	20	60	200	150
methyl ethyl ketone [MEK]	78-93-3	5 000	15 000	45 000	40 000
methyl isobutyl ketone [MIBK]	108-10-1	3 000	9 000	25 000	25 000
methyl mercaptan	74-93-1	2 ¹⁰	3.5	20	9
methyl methacrylate	80-62-6	700	2 000	6 500	5 500
methyl tert-butyl ether [MTBE]	1634-04-4	3 000	9 000	25 000	25 000
methylcyclohexane	108-87-2	1 500	5 000	35 000	15 000
methylstyrene, alpha-	98-83-9	150	400	2 500	1 000
naphthalene	91-20-3	3	9	25	25
n-decane	124-18-5	2 500	8 000	25 000	20 000

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Agricultural, Urban Park, Residential Use Standard ⁶	Commercial Use Standard ⁷	Industrial Use Standard ⁸	Parkade Use Standard ⁹
n-hexane	110-54-3	700	2 000	6 500	5 500
nitrobenzene	98-95-3	1 ¹⁰	1 ¹⁰	2.5	2
nitrotoluene, 2-	88-72-2	2	5.5	35	15
phosphine	7803-51-2	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰
propylene oxide	75-56-9	2.5	8	25	20
pyridine	110-86-1	100	350	1 000	950
styrene	100-42-5	1 000	3 000	9 000	8 000
tetrachloroethane, 1,1,1,2-	630-20-6	1.5	4	10	10
tetrachloroethane, 1,1,2,2-	79-34-5	40	100	800	300
tetrachloroethylene	127-18-4	40	100	350	300
tetrahydrofuran	109-99-9	3.5	10	30	25
toluene	108-88-3	5 000	15 000	45 000	40 000
trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	30 000	90 000	250 000	250 000
trichlorobenzene, 1,2,4-	120-82-1	7	20	65	55
trichloroethane, 1,1,1-	71-55-6	5 000	15 000	45 000	40 000
trichloroethane, 1,1,2-	79-00-5	0.5 ¹⁰	0.6	2	1.5
trichloroethylene	79-01-6	2	6	20	15
trichlorofluoromethane	75-69-4	700	2 000	6 500	5 500
trichloropropane, 1,1,2-	598-77-6	10	30	200	80
trichloropropane, 1,2,3-	96-18-4	0.5 ¹⁰	0.9	2.5	2.5
trichloropropene, 1,2,3-	96-19-5	0.5 ¹⁰	0.9	2.5	2.5
triethylamine	121-44-8	7	20	65	55
trimethylbenzene, 1,2,4-	95-63-6	7	20	65	55
trimethylbenzene, 1,3,5-	108-67-8	3.5	10	65	25
vinyl acetate	108-05-4	200	600	2 000	1 500
vinyl bromide	593-60-2	1 ¹⁰	1 ¹⁰	3	2.5
vinyl chloride	75-01-4	1	3.5	10	9
VPHV ¹²	NA ¹³	1 000	3 000	11 500	8 000
xylenes, total ¹⁴	1330-20-7	100	300	900	800

Notes

- 1 All values in $\mu\text{g}/\text{m}^3$ unless otherwise stated. Substances must be analyzed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternative methods acceptable to a director.
- 2 Vapour standards of this schedule are specific to human health only. It is the responsibility of the responsible person for the site to ensure that use of the vapour standards of this schedule do not constitute a significant risk or hazard to ecological health.
- 3 Soil, sediment or water giving rise to vapours must be remediated to the applicable vapour use standard for the substance.
- 4 Vapour standards applied to soil vapour may be adjusted for depth dependent attenuation as specified in a director's protocol.
- 5 Vapour standards apply to water at any site, irrespective of the water or site use, which gives rise to contaminated vapours.
- 6 Vapour standards agricultural, urban park and residential uses apply to soil at agricultural land use, urban park land use and residential land use sites, as well as freshwater or marine sediment at sensitive sediment sites, that give rise to contaminated vapours. Residential use vapour standards apply at both residential low density land use and residential high density land use sites, that give rise to contaminated vapours.
- 7 Vapour standards for commercial use apply to soil vapour at commercial land use sites that give risk to contaminated vapours.
- 8 Vapour standards for industrial use apply to soil vapour at industrial land use sites and to freshwater or marine sediment at typical sediment sites that give rise to contaminated vapours.
- 9 Vapour standards for parkade use apply to soil vapour adjacent to parkades, irrespective of the site use that gives rise to contaminated vapours.
- 10 Standard is adjusted based on the 2016 British Columbia Environmental Laboratory Technical Advisory Committee reference analytical detection limit for the substance.
- 11 Standard for the substance applies to the sum of cis and trans isomers vapour concentrations.
- 12 VPHv – Volatile Petroleum Hydrocarbons in vapour includes the sum of those compounds that elute on a 100% polydimethylsiloxane gas chromatographic column between the retention times for n-hexane (nC6) and n-tridecane (nC13) minus the sum of benzene, ethylbenzene, n-decane, n-hexane, styrene, toluene and xylenes.
- 13 NA – not applicable. No CAS number exists for the substance.
- 14 Standard for the substance applies to the sum of ortho, meta and para isomers vapour concentrations.

**SCHEDULE 3.4
GENERIC NUMERICAL SEDIMENT STANDARDS¹**

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5	COLUMN 6
Substance	Chemical Abstract Service Number (CAS)	Freshwater Sediment ² Standard for Sensitive Use ⁴	Freshwater Sediment ² Standard for Typical Use ⁵	Marine and Estuarine Sediment ³ Standard for Sensitive Use ⁴	Marine and Estuarine Sediment ³ Standard for Typical Use ⁵
acenaphthene	83-32-9	0.055	0.11	0.055	0.11
acenaphthylene	208-96-8	0.08	0.15	0.079	0.15
anthracene	120-12-7	0.15	0.29	0.15	0.29
arsenic	7440-38-2	11.0	20.0	26.0	50.0 ⁶
benz(a)anthracene	56-55-3	0.24	0.46	0.43	0.83
benzo(a)pyrene	50-32-8	0.48	0.94	0.47	0.92
cadmium	7440-43-9	2.2	4.2	2.6	5.0
chlordane (cis + trans)	5103-71-9 & 5103-74-2	0.0055	0.011	0.003	0.0057
chromium	7440-47-3	56.0 ⁶	110.0	99.0	190.0
chrysene	218-01-9	0.53	1.0	0.52	1.0
copper	7440-50-8	120.0	240.0	67.0	130.0
dibenz(a,h)anthracene	53-70-3	0.084	0.16	0.084	0.16
dichlorodiphenyldichloroethane (2,4' + 4,4' isomers) [DDD]	53-19-0 & 72-54-8	0.0053	0.01	0.0048	0.0094
dichlorodiphenyldichloroethylene (2,4' + 4,4' isomers) [DDE]	3424-82-6 & 72-55-9	0.0042	0.0081	0.23	0.45
dichlorodiphenyltrichloroethane (2,4' + 4,4' isomers) [DDT]	789-02-6 & 50-29-3	0.003	0.0057	0.003	0.0057
dieldrin	60-57-1	0.0041	0.008	0.0027	0.0052
endrin	72-20-8	0.039	0.075 ⁶	0.039	0.075 ⁶
fluoranthene	206-44-0	1.5	2.8	0.93	1.8
fluorene	86-73-7	0.089	0.17	0.089	0.17
heptachlor and heptachlor epoxide	76-44-8 & 1024-57-3	0.0017	0.0033 ⁶	0.0017	0.0033 ⁶
hexachlorocyclohexane, gamma	58-89-9	0.00086 ⁶	0.0017 ⁶	0.00061	0.0012 ⁶
lead	7439-92-1	57.0	110.0	69.0	130.0
methylnaphthalene, 2-	91-57-6	0.12	0.24	0.12	0.24

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mercury	7439-97-6	0.3	0.58	0.43	0.84
naphthalene	91-20-3	0.24	0.47	0.24	0.47
pentachlorophenol [PCP]	87-86-5	0.47	0.87	0.36 ⁸	0.69 ⁸
phenanthrene	85-01-8	0.32	0.62	0.34	0.65
polycyclic aromatic hydrocarbons, total ⁹ [PAHs]	NA ¹⁰	10.0	20.0	10.0	20.0
polychlorinated biphenyls, total ¹¹ [PCBs]	1336-36-3	0.17	0.33	0.12	0.23
polychlorinated dioxins and furans ¹² [PCDDs and PCDFs]	1746-01-6	0.00013 ⁶	0.00026 ⁶	0.00013	0.00026 ⁶
pyrene	129-00-0	0.54	1.1	0.87	1.7
zinc	7440-66-6	200.0	380.0	170.0	330.0

Notes

- All values in µg/g dry weight (dwt) unless otherwise stated. Substance must be analyzed using methods specified in the 2015 British Columbia Environmental Laboratory Manual, as updated from time to time, a director's protocol or alternative methods acceptable to a director.
- Standards are specific to the protection of freshwater life. It is the responsibility of the responsible person for the site to ensure that use of the standards of this schedule does not constitute a significant risk or hazard to human health.
- Standards are specific to the protection of marine and estuarine aquatic life. It is the responsibility of the responsible person for the site to ensure that the use of the standards of this schedule does not constitute a significant risk or hazard to human health.
- Sensitive sediment use means the use of a site containing sediment as habitat for sensitive components of freshwater, marine or estuarine aquatic ecosystems. Consult a director for further advice.
- Typical sediment use means the use of a site containing sediment for a use that is not a sensitive sediment use. Consult a director for further advice.
- Denotes a sediment standard that is considered less reliable or that could not be fully evaluated.
- Standard has been set equal to the 1994 State of New York, Department of Environmental Conservation criterion for the substance.
- Standard has been set equal to the 1991 Washington State, Department of Ecology criterion for the substance.
- PAHs, total in sediment includes:
 acenaphthene,
 acenaphthylene,
 anthracene,

benz(a)anthracene,
benzo(a)pyrene,
chrysene,
dibenz(a,h)anthracene,
fluoranthene,
fluorene,
methylanthralene, 2-
naphthalene,
phenanthrene, and
pyrene.

10. NA – not applicable. No CAS number exists for the substance.
11. PCBs, total in sediment includes the sum of Arochlors 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262 and 1268.
12. Calculated using data for PCDDs, PCDFs, PCBs and associated PCDD, PCDF, PCB toxicity equivalency factors. Consult a director for further advice.