



**BRITISH
COLUMBIA**

Ministry of Water, Land
and Air Protection

DIRECTOR'S STANDARD FOR CONTAMINATED SITES

Nonscheduled Toxic Substances

Prepared pursuant to Section 11 (1) (c) of the
Contaminated Sites Regulation under the
Waste Management Act

Approved: _____

Director of Waste Management

_____ Date

Effective: XXXX, 2003

1.0 INTRODUCTION

Schedules 4 through 7 of the Contaminated Sites Regulation provide numerical concentration environmental quality standards for a large number of individual substances. These schedules, although extensive, **do not include** all substances which may be of toxicological concern in soil or water at a site or in soil to be relocated from a site.

For use in the determination of site status as a contaminated site, assessment of satisfactory remediation of soil and water at a contaminated site and evaluation of soil quality to be relocated from a contaminated site, under the Contaminated Sites Regulation, the Director has established soil and water quality standards for the regulation of nonscheduled toxic substances. These Director's standards have the same legal standing as the numerical soil standards of Schedules 4, 5 and 7; and the numerical water standards of Schedule 6 of the Contaminated Sites Regulation.

2.0 DIRECTOR'S STANDARDS FOR NONSCHEDULED TOXIC SUBSTANCES

GENERIC NUMERICAL SOIL STANDARDS¹

COLUMN I	COLUMN II	COLUMN III	COLUMN IV	COLUMN V	COLUMN VI
Substance	Agricultural (AL)	Urban Park (PL)	Residential (RL)	Commercial (CL)	Industrial (IL)
Nonscheduled Toxic Substances	not present ²	Not present ²	not present ²	not present ²	not present ²

Footnotes

1. All values are in ug/g unless otherwise stated. A nonscheduled toxic substance (NSTS) must be analyzed using methods specified in protocols approved under section 53 of the Contaminated Sites Regulation or alternate methods acceptable to the Director.
2. Soil must be remediated so that NSTSs are not present in concentrations in excess of that acceptable to the Director.

GENERIC NUMERICAL WATER STANDARDS^{1, 2}

COLUMN I	COLUMN II	COLUMN III	COLUMN IV	COLUMN V
Substance	Aquatic Life (AW)	Irrigation (IW)	Livestock (LW)	Drinking Water ³ (DW)
Nonscheduled Toxic Substances				not present ⁴

Footnotes

1. All values are in ug/L unless otherwise stated. NSTSS must be analyzed using methods specified in protocols approved under section 53 of the Contaminated Sites Regulation or alternate methods acceptable to the Director.

2. a) Standard for a surface water or groundwater sample to be analyzed for a NSTS that is an organic substance is for total substance concentration. Any water sample to be analyzed for a NSTS that is an organic substance should not be filtered.
- b) Standard for a surface water sample to be analyzed for a NSTS that is a heavy metal, metalloid or inorganic ion is for total substance concentration. In addition, it is recommended that a surface water sample being analyzed for a NSTS that is a heavy metal, metalloid or inorganic ion should also be analyzed for dissolved substance concentration.
- c) Standard for groundwater samples to be analyzed for a NSTS that is a heavy metal, metalloid or inorganic ion is for dissolved substance concentration. In addition, it is recommended that groundwater samples being analyzed for a NSTS that is a heavy metal, metalloid or inorganic ion should also be analyzed for total substance concentration.
3. Drinking water standard is for an unfiltered sample obtained at the point of consumption. Any drinking water sample to be analyzed for a NSTS that is a heavy metal, metalloid or inorganic ion must be analyzed for total concentration.
4. Water must be remediated so that NSTSs are not present in concentrations in excess of that acceptable to the Director.

STANDARDS TRIGGERING CONTAMINATED SOIL RELOCATION AGREEMENTS¹

COLUMN I	COLUMN II	COLUMN III	COLUMN IV
Substance	Soil Relocation to Non-agricultural Land ²	Soil Relocation to Agricultural Land ³	Waste Disposal Prohibited Without Authorization ⁴
Nonscheduled Toxic Substances	not present ⁵	not present ⁵	not present ⁵

Footnotes

1. All values are in ug/g unless otherwise stated. NSTSs must be analyzed using methods specified in protocols approved under section 53 of the Contaminated Sites Regulation or alternate methods acceptable to the Director.
2. Pursuant to section 28.1 of the Act and section 40 of the Contaminated Sites Regulation, a soil relocation agreement is not required to relocate soil to a different site, other than a site used for agricultural land use, if the concentration of a NSTS in the soil is less than specified in Column II.
3. Pursuant to section 28.1 of the Act and section 40 of the Contaminated Sites Regulation, a soil relocation agreement is not required to relocate soil to a different site used for agricultural land use if the concentration of a NSTS in the soil is less than specified in Column III.
4. Pursuant to section 41 of this regulation, the prohibition on waste disposal in sections 3 (2) and 3 (3) of the Act do not apply if the concentration of a NSTS in the soil is less than specified in Column IV.
5. Soil must not be relocated containing NSTSs present in concentrations in excess of that acceptable to the Director.

3.0 LEGAL AND REGULATORY AUTHORITY

The authority under which the Director may establish a standard for use in the assessment and remediation of a contaminated site is in sections 11 (1) (c) and 17 (1) (c) of the Contaminated Sites Regulation. The authority under which the Director may establish a standard to authorize the relocation of contaminated soil is in section 45 (2) (c) of the Contaminated Sites Regulation.

GRF: June 2003

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