



## **APPENDIX 3**

Atlantic RBCA Version 4.0

### **ATLANTIC CANADA TIER I RISK-BASED SCREENING LEVEL (RBSL) TABLES**

**ATLANTIC PARTNERSHIP IN RBCA IMPLEMENTATION**

**July 2021**

**TABLE 5a - TIER I RISK BASED SCREENING LEVELS FOR SOIL (mg/kg)**

Land Use	Groundwater Use	Soil Type	Compound of Concern						
			Benzene	Toluene	Ethyl-benzene	Xylene	Modified TPH (TPH-BTEX)		
							Gasoline	Diesel/No. 2 Fuel Oil	No. 6 Oil/Lube Oil
Agricultural	Potable	Coarse Grained	0.021	0.35	0.043	0.73	75	320	1,800
		Fine Grained	0.094	0.74	0.089	1.5	1,900	4,700	10,000
	Non-Potable	Coarse Grained	0.021	47	60	4.9	75	320	1,800
		Fine Grained	0.49	900	2,000	120	10,000	8,600	10,000
Residential	Potable	Coarse Grained	0.021	0.35	0.043	0.73	75	320	1,800
		Fine Grained	0.094	0.74	0.089	1.5	1,900	4,700	10,000
	Non-Potable	Coarse Grained	0.021	47	60	4.9	75	320	1,800
		Fine Grained	0.49	900	2,000	120	10,000	8,600	10,000
Commercial	Potable	Coarse Grained	0.042	0.35	0.043	0.73	940	1,800	10,000
		Fine Grained	0.094	0.74	0.089	1.5	1900	4,700	10,000
	Non-Potable	Coarse Grained	0.52	1,400	3,100	60	2000	10,000	10,000
		Fine Grained	6.9	1,400	3,100	1,800	10,000	10,000	10,000
Industrial	Potable	Coarse Grained	0.042	0.35	0.043	0.73	940	1,800	10,000
		Fine Grained	0.094	0.74	0.089	1.5	1,900	4,700	10,000
	Non-Potable	Coarse Grained	0.52	4,700	10,000	60	2000	10,000	10,000
		Fine Grained	6.9	4,700	10,000	6,300	10,000	10,000	10,000
Residual Saturation (RES)		Coarse Grained	890	450	240	340	TBD	TBD	TBD
		Fine Grained	1000	480	250	360	TBD	TBD	TBD

Notes:

1. Upper Concentration Limit (UCL) of 10,000 mg/kg is applied to any calculated soil concentration that is >RES or exceeds 10,000 mg/kg.
2. RES values for TPH to be determined (TBD).
3. The numbers in this table are based on the protection of human health. While these concentrations may not be physically realistic in the environment, it remains that the models indicate that chemicals present in the soil at concentrations below these values do not present a potential concern for human health if exposure occurs through the specified pathway.
4. Concentrations >RES are considered an indicator of the potential presence of free product. If site concentrations are >RES, the presence of free product must be specifically addressed by the Site Professional.

**To apply the RBSL values in the Tier I Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- a. Non-aqueous phase liquids must not be present in groundwater.
- b. Potable water must be free of objectionable taste and odour.
- c. Soils must not contain liquid and/or free petroleum product.
- d. Residual hydrocarbons must not create objectionable odours or explosive conditions in indoor or outdoor air.
- e. Surface soils must not be stained.
- f. The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

*Updated July 2021*

**TABLE 5b - TIER I RISK BASED SCREENING LEVELS FOR GROUNDWATER (mg/L)**

Receptor	Groundwater Use	Soil Type	Compound of Concern						
			Benzene	Toluene	Ethyl-benzene	Xylene	Modified TPH (TPH-BTEX)		
							Gasoline	Diesel/No. 2 Fuel Oil	No. 6 Oil/Lube Oil
Agricultural	Potable	Coarse Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	0.53	20	20	20	20	20	20
		Fine Grained	2.7	20	20	20	20	20	20
Residential	Potable	Coarse Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	0.53	20	20	20	20	20	20
		Fine Grained	2.7	20	20	20	20	20	20
Commercial	Potable	Coarse Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	6.3	20	20	20	20	20	20
		Fine Grained	20	20	20	20	20	20	20
Industrial	Potable	Coarse Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	6.3	20	20	20	20	20	20
		Fine Grained	20	20	20	20	20	20	20
<b>Solubility (SOL)</b>			1,780	515	150	160	<b>TBD</b>	<b>TBD</b>	<b>TBD</b>

Notes:

1. Upper Concentration Limit (UCL) of 20 mg/L is applied to any calculated concentration that is >SOL or exceeds 20 mg/L.
2. SOL values for TPH to be determined (TBD).
3. The numbers in this table are based on the protection of human health. While these concentrations may not be physically realistic in the environment, it remains that the models indicate that chemicals present in the groundwater at concentrations below these values do not present a potential concern for human health if exposure occurs through the specified pathway.
4. Concentrations >SOL are considered an indicator of the potential presence of free product. If site concentrations are >SOL, the presence of free product must be specifically addressed by the Site Professional.

**To apply the RBSL values in the Tier I Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- a. Non-aqueous phase liquids must not be present in groundwater.
- b. Potable water must be free of objectionable taste and odour.
- c. Soils must not contain liquid and/or free petroleum product.
- d. Residual hydrocarbons must not create objectionable odours or explosive conditions in indoor or outdoor air.
- e. Surface soils must not be stained.
- f. The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

Updated July 2021



## **APPENDIX 4**

Atlantic RBCA Version 4.0

### **ATLANTIC CANADA TIER II PATHWAY-SPECIFIC SCREENING LEVEL (PSSL) TABLES**

**ATLANTIC PARTNERSHIP IN RBCA IMPLEMENTATION**

**July 2021**

**TABLE 6a - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR SOIL - PHCs (mg/kg)**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern						
				Benzene	Toluene	Ethyl-benzene	Xylene	Modified TPH (TPH-BTEX)		
								Gasoline	Diesel/No. 2 Fuel Oil	No. 6 Oil/ Lube Oil
Agricultural	Potable	Coarse Grained	Indoor Air *	0.021	47	60	4.9	75	320	1,800
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	0.042	0.35	0.043	0.73	940	1,800	15,000
		Fine Grained	Indoor Air *	0.49	>RES	>RES	120	>RES	>RES	>RES
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	0.094	0.74	0.089	1.5	1,900	4700	>RES
	Non-Potable	Coarse Grained	Indoor Air *	0.021	47	60	4.9	75	320	1,800
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
		Fine Grained	Indoor Air *	0.49	>RES	>RES	120	>RES	>RES	>RES
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
Residential	Potable	Coarse Grained	Indoor Air *	0.021	47	60	4.9	75	320	1,800
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	0.042	0.35	0.043	0.73	940	1,800	15,000
		Fine Grained	Indoor Air *	0.49	>RES	>RES	120	>RES	>RES	>RES
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	0.094	0.74	0.089	1.5	1900	4700	>RES
	Non-Potable	Coarse Grained	Indoor Air *	0.021	47	60	4.9	75	320	1,800
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
		Fine Grained	Indoor Air *	0.49	>RES	>RES	120	>RES	>RES	>RES
			Soil Ingestion	180	900	2,000	1,200	15,000	8,600	14,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
Residual Saturation		Coarse Grained		890	450	240	340	TBD	TBD	TBD
		Fine Grained		1000	480	250	360	TBD	TBD	TBD

Notes:

- \* 10 X Adjustment Factor (AF) has been applied.
- RES values for TPH to be determined (TBD).
- The numbers in this table are based on the protection of human health. While these concentrations may not be physically realistic in the environment, it remains that the models indicate that chemicals present in the soil at concentrations below these values do not present a potential concern for human health if exposure occurs through the specified pathway.
- Concentrations >RES are considered an indicator of the potential presence of free product. If site concentrations are >RES, the presence of free product must be specifically addressed by the Site Professional.

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- Non-aqueous phase liquids must not be present in groundwater.
- Potable water must be free of objectionable taste and odour.
- Soils must not contain liquid and/or free petroleum product.
- Residual hydrocarbons must not create objectionable odours or explosive conditions in indoor or outdoor air.
- Surface soils must not be stained.
- The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

*Updated July 2021*

**TABLE 6a - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR SOIL - PHCs (mg/kg)**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern						
				Benzene	Toluene	Ethyl-benzene	Xylene	Modified TPH (TPH-BTEX)		
								Gasoline	Diesel/No. 2 Fuel Oil	No. 6 Oil/ Lube Oil
Commercial	Potable	Coarse Grained	Indoor Air *	0.52	>RES	>RES	60	2000	32,000	>RES
			Soil Ingestion	980	1,400	3,100	1,800	22,000	13,000	21,000
			Soil Leaching	0.042	0.35	0.043	0.73	940	1,800	15,000
		Fine Grained	Indoor Air *	6.9	>RES	>RES	>RES	>RES	>RES	>RES
			Soil Ingestion	980	1,400	3,100	1,800	22,000	13,000	21,000
			Soil Leaching	0.094	0.74	0.089	1.5	1900	4,700	>RES
	Non-Potable	Coarse Grained	Indoor Air *	0.52	>RES	>RES	60	2000	32,000	>RES
			Soil Ingestion	980	1,400	3,100	1,800	22,000	13,000	21,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
		Fine Grained	Indoor Air *	6.9	>RES	>RES	>RES	>RES	>RES	>RES
			Soil Ingestion	980	1,400	3,100	1,800	22,000	13,000	21,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
Industrial	Potable	Coarse Grained	Indoor Air *	0.52	>RES	>RES	60	2000	32,000	>RES
			Soil Ingestion	980	4,700	11,000	6,300	77,000	47,000	74,000
			Soil Leaching	0.042	0.35	0.043	0.73	940	1,800	15,000
		Fine Grained	Indoor Air *	6.9	>RES	>RES	>RES	>RES	>RES	>RES
			Soil Ingestion	980	4,700	11,000	6,300	77,000	47,000	74,000
			Soil Leaching	0.094	0.74	0.089	1.5	1900	4,700	>RES
	Non-Potable	Coarse Grained	Indoor Air *	0.52	>RES	>RES	60	2000	32,000	>RES
			Soil Ingestion	980	4,700	11,000	6,300	77,000	47,000	74,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
		Fine Grained	Indoor Air *	6.9	>RES	>RES	>RES	>RES	>RES	>RES
			Soil Ingestion	980	4,700	11,000	6,300	77,000	47,000	74,000
			Soil Leaching	Not Applicable for Non-Potable Scenarios						
Residual Saturation		Coarse Grained		890	450	240	340	TBD	TBD	TBD
		Fine Grained		1000	480	250	360	TBD	TBD	TBD

Notes:

- \* 10 X Adjustment Factor (AF) has been applied.
- RES values for TPH to be determined (TBD).
- The numbers in this table are based on the protection of human health. While these concentrations may not be physically realistic in the environment, it remains that the models indicate that chemicals present in the soil at concentrations below these values do not present a potential concern for human health if exposure occurs through the specified pathway.
- Concentrations >RES are considered an indicator of the potential presence of free product. If site concentrations are >RES, the presence of free product must be specifically addressed by the Site Professional.

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- Non-aqueous phase liquids must not be present in groundwater.
- Potable water must be free of objectionable taste and odour.
- Soils must not contain liquid and/or free petroleum product.
- Residual hydrocarbons must not create objectionable odours or explosive conditions in indoor or outdoor air.
- Surface soils must not be stained
- The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

*Updated July 2021*

**TABLE 6b - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR GROUNDWATER - PHCs (mg/L)**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern						
				Benzene	Toluene	Ethyl-benzene	Xylene	Modified TPH (TPH-BTEX)		
								Gasoline	Diesel/ No. 2 Fuel Oil	No. 6 Oil/ Lube Oil
Agricultural	Potable	Coarse Grained	Indoor Air *	0.53	>SOL	>SOL	38	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	Indoor Air *	2.7	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	Indoor Air *	0.53	>SOL	>SOL	38	>SOL	>SOL	>SOL
			Ingestion	Not Applicable for Non-Potable Scenarios						
Fine Grained	Indoor Air *	2.7	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL		
	Ingestion	Not Applicable for Non-Potable Scenarios								
Residential	Potable	Coarse Grained	Indoor Air *	0.53	>SOL	>SOL	38	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	Indoor Air *	2.7	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	Indoor Air *	0.53	>SOL	>SOL	38	>SOL	>SOL	>SOL
			Ingestion	Not Applicable for Non-Potable Scenarios						
Fine Grained	Indoor Air *	2.7	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL		
	Ingestion	Not Applicable for Non-Potable Scenarios								
<b>Solubility'</b>				1780	515	150	160	TBD	TBD	TBD

Notes:

- \* 10 X Adjustment Factor (AF) has been applied.
- SOL values for TPH to be determined (TBD).
- The numbers in this table are based on the protection of human health. While these concentrations may not be physically realistic in the environment, it remains that the models indicate that chemicals present in the groundwater at concentrations below these values do not present a potential concern for human health if exposure occurs through the specified pathway.
- Concentrations >SOL are considered an indicator of the potential presence of free product. If site concentrations are >SOL, the presence of free product must be specifically addressed by the Site Professional.

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- Non-aqueous phase liquids must not be present in groundwater.
- Potable water must be free of objectionable taste and odour.
- Soils must not contain liquid and/or free petroleum product.
- Residual hydrocarbons must not create objectionable odours or explosive conditions in indoor or outdoor air.
- Surface soils must not be stained.
- The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

Updated July 2021

**TABLE 6b - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR GROUNDWATER - PHCs (mg/L)**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern						
				Benzene	Toluene	Ethyl-benzene	Xylene	Modified TPH (TPH-BTEX)		
								Gasoline	Diesel/ No. 2 Fuel Oil	No. 6 Oil/ Lube Oil
Commercial	Potable	Coarse Grained	Indoor Air *	6.3	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	Indoor Air *	32	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	Indoor Air *	6.3	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	Not Applicable for Non-Potable Scenarios						
Industrial	Potable	Coarse Grained	Indoor Air *	6.3	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	0.0005	0.024	0.0016	0.02	4.4	3.2	7.8
		Fine Grained	Indoor Air *	32	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	0.005	0.024	0.0016	0.02	4.4	3.2	7.8
	Non-Potable	Coarse Grained	Indoor Air *	6.3	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL
			Ingestion	Not Applicable for Non-Potable Scenarios						
Non-Potable	Fine Grained	Indoor Air *	32	>SOL	>SOL	>SOL	>SOL	>SOL	>SOL	
		Ingestion	Not Applicable for Non-Potable Scenarios							
		Solubility'		1780	515	150	160	TBD	TBD	TBD

Notes:

1. \* 10 X Adjustment Factor (AF) has been applied.
2. SOL values for TPH to be determined (TBD).
3. The numbers in this table are based on the protection of human health. While these concentrations may not be physically realistic in the environment, it remains that the models indicate that chemicals present in the groundwater at concentrations below these values do not present a potential concern for human health if exposure occurs through the specified pathway.
4. Concentrations >SOL are considered an indicator of the potential presence of free product. If site concentrations are >SOL, the presence of free product must be specifically addressed by the Site Professional.

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- a. Non-aqueous phase liquids must not be present in groundwater.
- b. Potable water must be free of objectionable taste and odour.
- c. Soils must not contain liquid and/or free petroleum product.
- d. Residual hydrocarbons must not create objectionable odours or explosive conditions in indoor or outdoor air.
- e. Surface soils must not be stained.
- f. The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

Updated July 2021



**TABLE 6c - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR SOIL (mg/kg) - CVOCs**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern					
				Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Agricultural	Potable	Coarse Grained	Indoor Air	0.016	0.00081	0.019	0.02	0.039	0.00031
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching	0.27	0.061	0.42	0.58	0.17	0.021
		Fine Grained	Indoor Air	0.39	0.020	0.52	0.56	0.93	0.0087
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching	0.57	0.13	1.0	1.4	0.38	0.060
	Non-Potable	Coarse Grained	Indoor Air	0.016	0.00081	0.019	0.02	0.039	0.00031
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching			Not Applicable for Non-Potable Scenarios			
		Fine Grained	Indoor Air	0.39	0.020	0.52	0.56	0.93	0.0087
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching			Not Applicable for Non-Potable Scenarios			
Residential	Potable	Coarse Grained	Indoor Air	0.016	0.00081	0.019	0.02	0.039	0.00031
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching	0.27	0.061	0.42	0.58	0.17	0.021
		Fine Grained	Indoor Air	0.39	0.020	0.52	0.56	0.93	0.0087
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching	0.57	0.13	1.0	1.4	0.38	0.060
	Non-Potable	Coarse Grained	Indoor Air	0.016	0.00081	0.019	0.02	0.039	0.00031
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching			Not Applicable for Non-Potable Scenarios			
		Fine Grained	Indoor Air	0.39	0.020	0.52	0.56	0.93	0.0087
			Soil Ingestion	170	54	74	740	110	31
			Soil Leaching			Not Applicable for Non-Potable Scenarios			

**Notes:**

- In the absence of Tier I RBSL, the site professional shall apply the most conservative guideline applicable to the site.
- Grey/Italics* - The derived guidelines are not currently attainable by current laboratory methods. For sites where CVOCs are identified as a contaminant of potential concern and where the indoor air guidelines are not achievable for the CVOC parameters (parent and associated daughter products), soil vapour, sub-slab or indoor air testing is required to assess the potential for unacceptable risks. In this case the extent of chlorinated solvent impacts shall be delineated through soil vapour and groundwater data or another means deemed appropriate by the Site Professional and Provincial Regulator. Refer to guidance document for further guidance.

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- Non-aqueous phase liquids must not be present in groundwater (i.e. light or dense)
- Potable water must be free of objectionable taste and odour.
- Soils must not contain liquid and/or free liquid phase product.
- Residual impacts must not create objectionable odours or explosive conditions in indoor or outdoor air.
- Surface soils must not be stained.
- The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

**TABLE 6c - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR SOIL (mg/kg) - CVOCs**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern					
				Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Commercial	Potable	Coarse Grained	Indoor Air	0.2	0.01	0.24	0.25	0.49	0.0079
			Soil Ingestion	270	82	110	1100	170	170
			Soil Leaching	0.27	0.061	0.42	0.58	0.17	0.021
		Fine Grained	Indoor Air	2.9	0.14	3.8	4.1	6.6	0.12
			Soil Ingestion	270	82	110	1100	170	170
			Soil Leaching	0.57	0.13	1.0	1.4	0.38	0.060
	Non-Potable	Coarse Grained	Indoor Air	0.2	0.01	0.24	0.25	0.49	0.0079
			Soil Ingestion	270	82	110	1100	170	170
			Soil Leaching	Not Applicable for Non-Potable Scenarios					
		Fine Grained	Indoor Air	2.9	0.14	3.8	4.1	6.6	0.12
			Soil Ingestion	270	82	110	1100	170	170
			Soil Leaching	Not Applicable for Non-Potable Scenarios					
Industrial	Potable	Coarse Grained	Indoor Air	0.2	0.01	0.24	0.25	0.49	0.016
			Soil Ingestion	920	280	390	3900	590	340
			Soil Leaching	0.27	0.061	0.42	0.58	0.17	0.021
		Fine Grained	Indoor Air	2.9	0.14	3.8	4.1	6.6	0.24
			Soil Ingestion	920	280	390	3900	590	340
			Soil Leaching	0.57	0.13	1.0	1.4	0.38	0.060
	Non-Potable	Coarse Grained	Indoor Air	0.2	0.01	0.24	0.25	0.49	0.016
			Soil Ingestion	920	280	390	3900	590	340
			Soil Leaching	Not Applicable for Non-Potable Scenarios					
		Fine Grained	Indoor Air	2.9	0.14	3.8	4.1	6.6	0.24
			Soil Ingestion	920	280	390	3900	590	340
			Soil Leaching	Not Applicable for Non-Potable Scenarios					

**Notes:**

- In the absence of Tier I RBSL, the site professional is to apply the most conservative guideline applicable to the site.
- Grey/Italics* - The derived guidelines are not currently attainable by current laboratory methods. For sites where CVOCs are identified as a contaminant of potential concern and where the indoor air guidelines are not achievable for the CVOC parameters (parent and associated daughter products), soil vapour, sub-slab or indoor air testing is required to assess the potential for unacceptable risks. In this case the extent of chlorinated solvent impacts shall be delineated through soil vapour and groundwater data or another means deemed appropriate by the Site Professional and Provincial Regulator. Refer to guidance document for further guidance.

g. The inhalation URF of 0.0088 (mg/m3)-1 is for lifetime exposure and is therefore used for derivation of agricultural, residential, and commercial indoor air values. The Inhalation URF of 0.00044 (mg/m3)-1 is for adult exposure and is used in derivation of industrial indoor air values.

h. The oral slope factor of 0.48 (mg.kg-d)-1 is for continuous lifetime exposure and is therefore used for derivation of agricultural, residential, and commercial indoor air values. The oral slope factor of 0.24 (mg.kg-d)-1 is for adult exposure and is used in derivation of industrial indoor air values.

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- Non-aqueous phase liquids must not be present in groundwater.
- Potable water must be free of objectionable taste and odour.
- Soils must not contain liquid and/or free petroleum product.
- Residual impacts must not create objectionable odours or explosive conditions in indoor or outdoor air.
- Surface soils must not be stained.
- The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

**TABLE 6d - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR GROUNDWATER (mg/L) - CVOCs**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern					
				Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Agricultural	Potable	Coarse Grained	Indoor Air	0.21	0.019	0.77	0.82	0.95	0.0086
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
		Fine Grained	Indoor Air	1.00	0.092	3.9	4.1	4.6	0.041
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
	Non-Potable	Coarse Grained	Indoor Air	0.21	0.019	0.77	0.82	0.94	0.0085
			Ingestion	Not Applicable for Non-Potable Scenarios					
		Fine Grained	Indoor Air	1.00	0.092	3.9	4.1	4.6	0.041
			Ingestion	Not Applicable for Non-Potable Scenarios					
Residential	Potable	Coarse Grained	Indoor Air	0.21	0.019	0.77	0.82	0.95	0.0086
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
		Fine Grained	Indoor Air	1.00	0.092	3.9	4.1	4.6	0.041
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
	Non-Potable	Coarse Grained	Indoor Air	0.21	0.019	0.77	0.82	0.95	0.0086
			Ingestion	Not Applicable for Non-Potable Scenarios					
		Fine Grained	Indoor Air	1.00	0.092	3.9	4.1	4.6	0.041
			Ingestion	Not Applicable for Non-Potable Scenarios					

To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.

- Non-aqueous phase liquids must not be present in groundwater (i.e, light or dense)
- Potable water must be free of objectionable taste and odour.
- Soils must not contain liquid and/or free phase product.
- Residual impacts must not create objectionable odours or explosive conditions in indoor or outdoor air.
- Surface soils must not be stained.
- The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.

**TABLE 6d - TIER II PATHWAY SPECIFIC SCREENING LEVELS FOR GROUNDWATER (mg/L) - CVOCs**

Receptor	Groundwater Use	Soil Type	Exposure Pathway	Compound of Concern					
				Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride
Commercial	Potable	Coarse Grained	Indoor Air	1.2	0.11	4.6	4.9	5.6	0.099
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
		Fine Grained	Indoor Air	5.9	0.54	23	25	27	0.47
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
	Non-Potable	Coarse Grained	Indoor Air	1.2	0.11	4.6	4.9	5.6	0.099
			Ingestion	Not Applicable for Non-Potable Scenarios					
		Fine Grained	Indoor Air	5.9	0.54	23	25	27	0.47
			Ingestion	Not Applicable for Non-Potable Scenarios					
Industrial	Potable	Coarse Grained	Indoor Air	1.2	0.11	4.6	4.9	5.6	0.200
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
		Fine Grained	Indoor Air	5.9	0.54	23	25	27	0.94
			Ingestion	0.01	0.005	0.07	0.1	0.014	0.002
	Non-Potable	Coarse Grained	Indoor Air	1.2	0.11	4.6	4.9	5.6	0.200
			Ingestion	Not Applicable for Non-Potable Scenarios					
		Fine Grained	Indoor Air	5.9	0.54	23	25	27	0.94
			Ingestion	Not Applicable for Non-Potable Scenarios					

**To apply the PSSL values in the Tier II Soil and Groundwater Tables, the following mandatory criteria must be satisfied.**

- Non-aqueous phase liquids must not be present in groundwater.
  - Potable water must be free of objectionable taste and odour.
  - Soils must not contain liquid and/or free petroleum product.
  - Residual impacts must not create objectionable odours or explosive conditions in indoor or outdoor air.
  - Surface soils must not be stained.
  - The site characteristics and exposure scenarios must be compatible with the Atlantic RBCA default values.
- g. The inhalation URF of 0.0088 (mg/m3)-1 is for lifetime exposure and is therefore used for derivation of agricultural, residential, and commercial indoor air values. The Inhalation URF of 0.00044 (mg/m3)-1 is for adult exposure and is used in derivation of industrial indoor air values.