

List of Tables for Chapter 4	
4-1	Classification of Possible Drinking Water Threats
4-2	Provincial Tables of Circumstances
4-3	Provincial Threat Categories with Circumstances That Could Pose a Significant Threat in an IPZ
4-4	Provincial Threat Categories with Circumstances That Could Pose a Significant Threat in a Wellhead Protection Zone

Table 4-1**Classification of Possible Drinking Water Threats**

Mississippi-Rideau Source Protection Region

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
Chemical	WHPA	10	1 (CW10S)	3 (CW10M)	6 (CW10L)
	WHPA	8	2 (CW8S)	4 (CW8M)	7 (CW8L)
	WHPA	6		5 (CW6M)	8 (CW6L)
	WHPA	4			
	WHPA	2			
Dense Non-Aqueous Phase Liquids (DNAPLs)	WHPA A, B, C, C1	10	9 (DWAS)		
	WHPA A, B, C, C1	8	9 (DWAS)		
	WHPA A, B, C, C1	6	9 (DWAS)		
	WHPA A, B, C, C1	4	9 (DWAS)		
	WHPA A, B, C, C1	2	9 (DWAS)		
	WHPA D	6		10 (DW6M)	11 (DW6L)
Pathogen	WHPA A, B	10	12 (PW10S)	13 (PW10M)	
	WHPA A, B	8		14 (PW8M)	15 (PW8L)
	WHPA A, B	6			16 (PW6L)
Chemical	SGRA	6		17 (CSGRAHVA6M)	
	SGRA	6			18 (CSGRAHVA6L)
	HVA	6		17 (CSGRAHVA6M)	
	HVA	6			18 (CSGRAHVA6L)
	IPZ	10	19 (CIPZ10S)	23 (CIPZ10M)	31 (CIPZWE10L)
	IPZ or WHPA E	9	20 (CIPZWE9S)	24 (CIPZWE9M)	32 (CIPZWE9L)
	IPZ or WHPA E	8.1	21 (CIPZWE8.1S)	25 (CIPZWE8.1M)	33 (CIPZWE8.1L)
	IPZ or WHPA E	8	22 (CIPZWE8S)	26 (CIPZWE8M)	34 (CIPZWE8L)
	IPZ or WHPA E	7.2		27 (CIPZWE7.2M)	35 (CIPZWE7.2L)
	IPZ or WHPA E	7		28 (CIPZWE7M)	36 (CIPZWE7L)
	IPZ or	6.4		29	37

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
	WHPA E			(CIPZWE6.4M)	(CIPZWE6.4L)
	IPZ or WHPA E	6.3		30 (CIPZWE6.3M)	38 (CIPZWE6.3L)
	IPZ or WHPA E	6		75 (CIPZWE6M)	76 (CIPZWE6L)
	IPZ or WHPA E	5.6			39 (CIPZWE5.6L)
	IPZ or WHPA E	5.4			40 (CIPZWE5.4L)
	IPZ or WHPA E	5			74 (CIPZWE5L)
	IPZ or WHPA E	4.9			41 (CIPZWE4.9L)
	IPZ or WHPA E	4.8			42 (CIPZWE4.8L)
	IPZ or WHPA E	4.5			43 (CIPZWE4.5L)
	IPZ or WHPA E	4.2			44 (CIPZWE4.2L)
Pathogen	IPZ	10	45 (PIPZ10S)	49 (PIPZWE10M)	58 (PIPZ10L)
	IPZ or WHPA E	9	46 (PIPZWE9S)	50 (PIPZWE9M)	59 (PIPZWE9L)
	IPZ or WHPA E	8.1	47 (PIPZWE8.1S)	51 (PIPZWE8.1M)	60 (PIPZWE8.1L)
	IPZ or WHPA E	8	48 (PIPZWE8S)	52 (PIPZWE8M)	61 (PIPZWE8L)
	IPZ or WHPA E	7.2		53 (PIPZWE7.2M)	62 (PIPZWE7.2L)
	IPZ or WHPA E	7		54 (PIPZWE7M)	63 (PIPZWE7L)
	IPZ or WHPA E	6.4		55 (PIPZWE6.4M)	64 (PIPZWE6.4L)
	IPZ or WHPA E	6.3		56 (PIPZWE6.3M)	65 (PIPZWE6.3L)
	IPZ	6		57 (PIPZ6M)	66 (PIPZ6L)
	IPZ or WHPA E	5.6			67 (PIPZWE5.6L)
Pathogen	IPZ or WHPA E	5.4			68 (PIPZWE5.4L)
	IPZ or WHPA E	5			69 (PIPZ5L)
	IPZ or WHPA E	4.9			70 (PIPZWE4.9L)

Threat Type	Vulnerable Area	Vulnerability Score	Threat Classification and Provincial Table Reference Code		
			Significant	Moderate	Low
			Table Number (Table Name)		
	IPZ or WHPA E	4.8			71 (PIPZWE4.8L)
	IPZ or WHPA E	4.5			72 (PIPZWE4.5L)
	IPZ or WHPA E	4.2			73 (PIPZWE4.2L)

Table 4-2

Provincial Tables of Circumstances

Mississippi-Rideau Source Protection Region

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
1	CW10S	Chemicals in a WHPA with a vulnerability score of 10 where threats are significant
2	CW8S	Chemicals in a WHPA with a vulnerability score of 8 where threats are significant
3	CW10M	Chemicals in a WHPA with a vulnerability score of 10 where threats are moderate
4	CW8M	Chemicals in a WHPA with a vulnerability score of 8 where threats are moderate
5	CW6M	Chemicals in a WHPA with a vulnerability score of 6 where threats are moderate
6	CW10L	Chemicals in a WHPA with a vulnerability score of 10 where threats are low
7	CW8L	Chemicals in a WHPA with a vulnerability score of 8 where threats are low
8	CW6L	Chemicals in a WHPA with a vulnerability score of 6 where threats are low
9	DWAS	DNAPLS in WHPA A, B, C, C1, with any vulnerability where threats are significant
10	DW6M	DNAPLS in WHPA D with a vulnerability of 6 where threats are moderate
11	DW6L	DNAPLS in WHPA D with a vulnerability of 6 where threats are low
12	PW10S	Pathogens in WHPA A, B with a vulnerability of 10 where threats are significant
13	PW10M	Pathogens in WHPA A, B with a vulnerability of 10 where threats are moderate
14	PW8M	Pathogens in WHPA A, B with a vulnerability of 8 where threats are moderate
15	PW8L	Pathogens in WHPA A, B with a vulnerability of 8 where threats are low
16	PW6L	Pathogens in WHPA A, B with a vulnerability of 6 where threats are low
17	CSGRAHV 6M	Chemicals in an SGRA or HVA with a vulnerability score of 6 where threats are moderate
18	CSGRAHV A6L	Chemicals in an SGRA or HVA with a vulnerability score of 6 where threats are low
19	CIPZ10S	Chemicals in an IPZ with a vulnerability of 10 where threats are significant
20	CIPZWE9S	Chemicals in an IPZ or WHPA E where the vulnerability score is 9 where threats are significant
21	CIPZWE8. 1S	Chemicals in an IPZ or WHPA E where the vulnerability score is 8.1 where threats are significant

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
22	CIPZWE8S	Chemicals in an IPZ or WHPA E where the vulnerability score is 8 where threats are significant
23	CIPZ10M	Chemicals in an IPZ with a vulnerability of 10 where threats are moderate
24	CIPZWE9	Chemicals in an IPZ or WHPA E where the vulnerability score is 9 where threats are moderate
25	CIPZWE8.1M	Chemicals in an IPZ or WHPA E where the vulnerability score is 8.1 where threats are moderate
26	CIPZWE8M	Chemicals in an IPZ or WHPA E where the vulnerability score is 8 where threats are moderate
27	CIPZWE7.2M	Chemicals in an IPZ or WHPA E where the vulnerability score is 7.2 where threats are moderate
28	CIPZWE7M	Chemicals in an IPZ or WHPA E where the vulnerability score is 7 where threats are moderate
29	CIPZWE6.4M	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.4 where threats are moderate
30	CIPZWE6.3M	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.3 where threats are moderate
31	CIPZWE10L	Chemicals in an IPZ with a vulnerability of 10 where threats are low
32	CIPZWE9L	Chemicals in an IPZ or WHPA E where the vulnerability score is 9 where threats are low
33	CIPZWE8.1L	Chemicals in an IPZ or WHPA E where the vulnerability score is 8.1 where threats are low
34	CIPZWE8L	Chemicals in an IPZ or WHPA E where the vulnerability score is 8 where threats are low
35	CIPZWE7.2L	Chemicals in an IPZ or WHPA E where the vulnerability score is 7.2 where threats are low
36	CIPZWE7L	Chemicals in an IPZ or WHPA E where the vulnerability score is 7 where threats are low
37	CIPZWE6.4L	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.4 where threats are low
38	CIPZWE6.3L	Chemicals in an IPZ or WHPA E where the vulnerability score is 6.3 where threats are low
39	CIPZWE5.6L	Chemicals in an IPZ or WHPA E where the vulnerability score is 5.6 where threats are low
40	CIPZWE5.4L	Chemicals in an IPZ or WHPA E where the vulnerability score is 5.4 where threats are low
41	CIPZWE4.9L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.9 where threats are low
42	CIPZWE4.8L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.8 where threats are low
43	CIPZWE4.5L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.5 where threats are low
44	CIPZWE4.2L	Chemicals in an IPZ or WHPA E where the vulnerability score is 4.2 where threats are low
45	PIPZ10S	Pathogens in an IPZ with a vulnerability of 10 where threats are significant
46	PIPZWE9S	Pathogens in an IPZ or WHPA E with a vulnerability of 9 where threats are significant

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
47	PIPZWE8.1S	Pathogens in an IPZ or WHPA E with a vulnerability of 8.1 where threats are significant
48	PIPZWE8S	Pathogens in an IPZ or WHPA E with a vulnerability of 8 where threats are significant
49	PIPZWE10M	Pathogens in an IPZ with a vulnerability of 10 where threats are moderate
50	PIPZWE9M	Pathogens in an IPZ or WHPA E with a vulnerability of 9 where threats are moderate
51	PIPZWE8.1M	Pathogens in an IPZ or WHPA E with a vulnerability of 8.1 where threats are moderate
52	PIPZWE8M	Pathogens in an IPZ or WHPA E with a vulnerability of 8 where threats are moderate
53	PIPZWE7.2M	Pathogens in an IPZ or WHPA E with a vulnerability of 7.2 where threats are moderate
54	PIPZWE7M	Pathogens in an IPZ or WHPA E with a vulnerability of 7 where threats are moderate
55	PIPZWE6.4M	Pathogens in an IPZ or WHPA E with a vulnerability of 6.4 where threats are moderate
56	PIPZWE6.3M	Pathogens in an IPZ or WHPA E with a vulnerability of 6.3 where threats are moderate
57	PIPZ6M	Pathogens in an IPZ with a vulnerability of 6 where threats are moderate
58	PIPZ10L	Pathogens in an IPZ with a vulnerability of 10 where threats are low
59	PIPZWE9L	Pathogens in an IPZ or WHPA E with a vulnerability of 9 where threats are low
60	PIPZWE8.1L	Pathogens in an IPZ or WHPA E with a vulnerability of 8.1 where threats are low
61	PIPZWE8L	Pathogens in an IPZ or WHPA E with a vulnerability of 8 where threats are low
62	PIPZWE7.2L	Pathogens in an IPZ or WHPA E with a vulnerability of 7.2 where threats are low
63	PIPZWE7L	Pathogens in an IPZ or WHPA E with a vulnerability of 7 where threats are low
64	PIPZWE6.4L	Pathogens in an IPZ or WHPA E with a vulnerability of 6.4 where threats are low
65	PIPZWE6.3L	Pathogens in an IPZ or WHPA E with a vulnerability of 6.3 where threats are low
66	PIPZ6L	Pathogens in an IPZ with a vulnerability of 6 where threats are low
67	PIPZWE5.6L	Pathogens in an IPZ with a vulnerability of 6 where threats are low
68	PIPZWE5.4L	Pathogens in an IPZ or WHPA E with a vulnerability of 5.4 where threats are low
69	PIPZ5L	Pathogens in an IPZ with a vulnerability of 5 where threats are low
70	PIPZWE4.9L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.9 where threats are low
71	PIPZWE4.8L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.8 where threats are low

Provincial Table Number	Table Name	Table Title (click Table Titles to Open Individual Tables)
72	PIPZWE4.5L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.5 where threats are low
73	PIPZWE4.2L	Pathogens in an IPZ or WHPA E with a vulnerability of 4.2 where threats are low
74	CIPZWE5L	Chemicals in an IPZ or WHPA E where the vulnerability score is 5 where threats are low
75	CIPZWEM6	Chemicals in an IPZ or WHPA E where the vulnerability score is 6 where threats are moderate
76	CIPZWEL6	Chemicals in an IPZ or WHPA E where the vulnerability score is 6 where threats are low

Table 4-3

Provincial Threat Categories with Circumstances That Could Pose a Significant Threat in an IPZ

Mississippi-Rideau Source Protection Region

Contaminant released:		Intake Protection Zone (IPZ) Vulnerability Scoring							
		Chemical				Pathogen			
Prescribed drinking water threat category		10	9	8+	7 to 1	10	9	8+	7 to 1
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act .	X	X			X	X	X	
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	X	X	X		X	X	X	
3	The application of agricultural source material to land.	X	X			X	X	X	
4	The storage of agricultural source material.	X	X			X	X	X	
5	The management of agricultural source material.								
6	The application of non-agricultural source material to land.	X	X			X	X	X	
7	The handling and storage of non-agricultural source material.	X	X			X	X	X	
8	The application of commercial fertilizer to land.	X	X						
9	The handling and storage of commercial fertilizer.	X							
10	The application of pesticide to land.	X	X	X					
11	The handling and storage of pesticide.	X	X						
12	The application of road salt.	X	X						
13	The handling and storage of road salt.	X	X						
14	The storage of snow.	X	X						
15	The handling and storage of fuel.	X							
16	The handling and storage of a dense non-aqueous phase liquid (DNAPLS)*.	X							
17	The handling and storage of an organic solvent.	X							
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	X	X						
19	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body.**								
20	An activity that reduces the recharge of an aquifer.**								
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard.	X	X			X	X	X	

*DNAPLS are chemicals that are heavy and sink in water (e.g. trichloroethylene)

**Water quantity threats will be evaluated as a part of the Water Budget studies

Table 4-4

Provincial Threat Categories with Circumstances That Could Pose a Significant Threat in a Wellhead Protection Area

Mississippi-Rideau Source Protection Region

Contaminant released:		Wellhead Protection Area (WHPA) Vulnerability Scoring									
		Chemical					Pathogen				
Prescribed Drinking Water Threats (Ontario Regulation 287/07)		10	8	6	4	2	10	8	6	4	2
1	The establishment, operation or maintenance of a waste disposal site within the meaning of Part V of the Environmental Protection Act.	X	X				X				
2	The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage.	X	X				X				
3	The application of agricultural source material to land.	X					X				
4	The storage of agricultural source material.	X					X				
5	The management of agricultural source material.										
6	The application of non-agricultural source material to land.	X					X				
7	The handling and storage of non-agricultural source material.	X					X				
8	The application of commercial fertilizer to land.	X									
9	The handling and storage of commercial fertilizer.	X									
10	The application of pesticide to land.	X									
11	The handling and storage of pesticide.	X									
12	The application of road salt.	X									
13	The handling and storage of road salt.	X									
14	The storage of snow.	X									
15	The handling and storage of fuel.	X									
16	The handling and storage of a dense non-aqueous phase liquid (DNAPLs)*.	Anywhere in 5 year time of travel									
17	The handling and storage of an organic solvent.	X									
18	The management of runoff that contains chemicals used in the de-icing of aircraft.	X									
19	An activity that takes water from an aquifer or a surface water body without returning the water taken to the same aquifer or surface water body.**										
20	An activity that reduces the recharge of an aquifer.**										
21	The use of land as livestock grazing or pasturing land, an outdoor confinement area or a farm-animal yard.	X					X				

*DNAPLs are chemicals that are heavy and sink in water (e.g. trichloroethylene)
 **Water quantity threats will be evaluated as a part of the Water Budget studies