

## Meta Data - Inventory of Drinking Water Threats Methods

### PRESCRIBED DRINKING WATER THREATS (PDWT)

**Definition:** A "drinking water threat" means an activity or condition that adversely affects or has the potential to adversely affect the quality or quantity of any water that is or may be used as a source of drinking water, and includes an activity or condition that is prescribed by the regulations as a drinking water threat (*Clean Water Act, 2006, 2.1*). The list of "Prescribed Drinking Water Threats"; 1 through 21, as referenced in the *Clean Water Act, 2006 Ontario Regulation 287/07* (MOE, 2009a), can be found in **Appendix 'F'** in Volume III of this report.

### CLASSIFYING THREAT ACTIVITIES

Each site with a suspected threat activity was given a Threat ID number for identification (some systems have parcel groupings to account for island parcels and mass residential parcels representing identical threats). The location of each activity is noted with the number of parcels associated referenced numerically in the "Affected Parcels" column of the affected intake protection zone (IPZ) or wellhead protection area (WHPA).

Investigation into the properties (landowner contact and review of aerial photographs) revealed some activities have no threats present onsite. Only parcels with a threat activity occurring on site are included. Parcels with threat activities confirmed not to exist have been removed. This removal of parcels accounts for the discrepancy in the numerical sequence of parcel identification.

All known (or assumed) threats are listed for each activity. They are listed in order of the prescribed drinking water threats list (1 through 21 as referenced in the Clean Water Act, 2006 Ontario Regulation 287/09) in the "PDWT No." column of the associated vulnerable zone/area, and then by ascending Reference Numbers. Reference numbers and the associated circumstances are taken from the Drinking Water Threats Tables as provided by the Ministry of the Environment (MOE, 2009a).

A paraphrased threat column has been added to aid the reader in quick identification of the threat activity type associated with each parcel.

More than one circumstance can be listed per threat if there are both chemical and pathogen based circumstances, if the one circumstance is for handling and the second storage, and/or if there are two different sources of the same threat (i.e. heating fuel stored below grade and gasoline stored at or above grade).

### ENUMERATING THREAT ACTIVITIES

Each circumstance is ranked as a significant (S), moderate (M) or low (L) threat. Only the circumstance producing the highest ranking is used for enumeration of the parcel and is illustrated with a shaded and bolded "X".

Assumptions were made (where contact was not possible with landowners) using worst case scenarios (the highest possible references and circumstances to produce the highest possible threat ranking) and/or local knowledge for certain parcels. Any future contact with the landowner could not produce a higher ranking; any changes to the circumstances could only reduce the threat rank. With assumptions, it is also possible that not all, or none, of the threats listed are present, and reduction of the enumerated threats could occur through landowner contact, reducing uncertainty.

Each activity identified with threats is only counted once, regardless of the number of circumstances present. If there are multiple parcels of land associated with one identified activity, all of the parcels are included in the count of ranked threat.

Duplicate threat numbers within the same parcel indicate the threat is occurring within the parcel in more than one area. For example, a parcel with more than one household representing the presence of more than one septic system or fuel tank within the parcel. Enumerating the number of septic systems and fuel tanks individually accounts for the individual risk associated with failure and/or leakage.

A summary of the number of parcels per zone/area and per ranking is included in a chart under the enumeration table. The summary counts for the total number of threats present occurring on the individual ID parcels, as well as the threats associated to road networks and sewers. For example, one road in WHPA 'A' would equal one threat count for road salt application even though it is not a separate property parcel.

### ROAD SALTS

There is one count of road salt for every road present within a vulnerable area. Each road is listed (with its road type as defined in the ORN roads layer in ArcView) as the "Threat ID". The roads have been sorted alphabetically for convenience.

The enumeration chart shows the presence of a road in each area within the system's defined vulnerable area (ie, zones in IPZs, or areas in WHPAs) by the presence of a count of "1" in the "Affected Parcels" columns. It is not uncommon for a road to span multiple areas, and therefore will have "1"s present in more than one "Affected Parcels" column.

Each road is counted only once for the threat of the application of road salt (as represented by a single "X" in one of the Threat Class categories of S, M or L).

If a road is present in more than one zone (example: a road spanning across both IPZ 1 and IPZ 2) and/or a road extends over more than one zone of impervious surface percentage, the highest threat rank (S, M or L) is enumerated. The associated circumstances (and reference numbers) are listed under the "Prescribed Drinking Water Threat" columns.

If two circumstances produce the same threat ranking, than the circumstances with the higher reference numbers (larger percentage impervious surfaces) were chosen.

The vulnerable area associated with the listed circumstances is noted by the presence of a "12" in the "PDWT No." column of the appropriate area.

If both the threat rank and circumstances are identical only the area/zone closest to the intake/wellhead is noted.

The summary chart at the bottom of each enumeration table contains a count for each road listed in the system. The chart is a summary of the number of parcels affected by the threats listed above, but the roads are not linked to any individual parcel. Each road has received a single count regardless of measured length, width, road type, traffic patterns or location within the vulnerable area. The section of road enumerated in this summary is indicated in the appropriate vulnerable area by the presence "12" in the "PDWT No" column.

### TRANSPORTATION OF SPECIFIED SUBSTANCES

There is one count for each type of "transported specified substance" for every transportation corridor present within a vulnerable area. This can include: the transportation of fuel, the transportation of a pesticide, the transportation of dense non-aqueous phase liquids (DNAPLs) and the transportation of organic solvents. Each corridor is listed (with its road type as defined in the ORN roads layer in ArcView) as the "Threat ID". The roads have been sorted alphabetically for convenience, followed by railway and navigation channels, if applicable.

"Local" is identified in the PDWT No. column to indicate that it is a local (prescribed) drinking water threat, where the Source Protection Committee requested the Ministry to add other activities deemed to be a "local" threat. Local threats are beyond the list of the 21 threats provided by the Ministry for source protected areas to enumerate. Please refer to the approval tables provided by the MOE (circumstances and hazard ratings) for the transportation of specified substances along corridors within **Appendix 'F-3'** in Volume III of this report as the volumes of the substance and the hazard rating determine the S, M, L score.

Note: The circumstances relating to the transportation of DNAPLs does not include a volume; however, it was assumed that the specified DNAPLs, in pure-phase, would only be transported on collector roads, highways, railways and shipping lanes, unless there was knowledge of an end user on a local road.

The enumeration chart shows the presence of a transportation corridor in each area within the system's defined vulnerable area (i.e. zones in IPZs, or areas in WHPAs) by the presence of a count of "1" in the "Affected Parcels" columns. It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

"n/a" is identified in the Reference Numbers column because there are no reference numbers associated with this local (prescribed) drinking water threat.

Each transportation corridor is counted only once (as represented by a single "X" in one of the Threat Class categories of S, M or L).

There were assumptions made on the types of substances that would be transported along specific corridors based on their location (ex. Large volumes of organic solvent would not likely be transported through a residential area that is removed from collector roads and delivery routes).

If two circumstances produce the same threat ranking, than the circumstances with the higher reference numbers (larger percentage impervious surfaces) were chosen.

The vulnerable area associated with the listed circumstances is noted by the presence of a "local" in the "PDWT No." column of the appropriate area.

If both the threat rank and circumstances are identical only the area/zone closest to the intake/wellhead is noted and enumerated.

The summary chart at the bottom of each enumeration table does contain a count for each road listed in the system. The chart is a summary of the number of parcels affected by the threats listed above, but the roads are not linked to any individual parcel. Also each road has received a single count regardless of measured length, width, road type, traffic patterns or location within the vulnerable area. The section of road enumerated in this summary is indicated in the appropriate vulnerable area by the presence "12" in the "PDWT No" column.

### SEWER NETWORKS

Sewer mainlines and connections are counted (where existing) as a single threat activity in the highest ranking circumstance (commonly the vulnerable area closest to the intake/wellhead) regardless of differences in length, diameter, or conveyance capacity.

The summary chart at the bottom of each enumeration table does contain a count for each sewer network even though the sewers are not linked to any one individual parcel.







**Table 1 Cana Subdivision Wellhead Protection Area (WHPA), City Of Kingston - Threat Enumeration**  
Land activities (referenced by circumstance) within the Cana Subdivision groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)					WHPA - A, B, & Elevated B & C		WHPA - C		WHPA - D <sup>6</sup>		Threat Class <sup>5</sup>					
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 10		Vuln Sc = 8		Vuln Sc = 6		S	M	L		
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>					
WHPA - B	8	cs.33	Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.	1	15					X			
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.									X	
WHPA - B	8	cs.34	Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.	1	15					X			
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.									X	
WHPA - B	8	cs.35	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The discharge may result in the presence of one or more pathogens	1	2						X		
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.									X	
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.			15						X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.										X
WHPA - B	8	cs.36	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The discharge may result in the presence of one or more pathogens	1	2						X		
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.									X	
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.			15						X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.										X
WHPA - B	8	cs.37	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The discharge may result in the presence of one or more pathogens	1	2						X		
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.									X	
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.			15						X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.										X
WHPA - B	8	cs.38	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The discharge may result in the presence of one or more pathogens	1	2						X		
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.									X	
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.			15						X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.										X
WHPA - B	8	cs.39	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The discharge may result in the presence of one or more pathogens	1	2						X		
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.									X	
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.			15						X	

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Land activities (referenced by circumstance) within the Cana Subdivision groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)					WHPA - A, B, & Elevated B & C		WHPA - C		WHPA - D <sup>6</sup>		Threat Class <sup>5</sup>							
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 10		Vuln Sc = 8		Vuln Sc = 6		S	M	L				
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>							
WHPA - B	8	cs.39 (continued)	Fuel (continued)	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.									X				
WHPA - B	8	cs.40	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.			1	2						X			
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.										X			
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.					15							X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.												X	
WHPA - B	8	cs.41	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.			1	2						X			
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.												X	
WHPA - B	8	cs.42	Sewage works	1956	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.			1	2						X			
				695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.											X		
			Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.					12							X	
				1435, 1436	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.												X	
WHPA - C (elevated VS)	8	cs.43	Sewage works	695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.			1	2						X			
				Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.					15					X		
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.											X		
WHPA - D (elevated VS)	6	cs.44	Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.						1	15			X			
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.												X	
WHPA - D (elevated VS)	6	cs.45	Road Salt	1439, 1440	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.							1	12			X		
				Fuel	1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.								15			X	
			DNAPLs		107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.									16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.												X	
			Solvents	1237, 1238, 1239	The organic solvent is stored in a container at or above grade.										17			X
WHPA - B	8	Cana Boulevard (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12						X			
				Transportation of Fuel	n/a	The transportation of liquid fuel.					1	local					X	
WHPA - A	10	Canal Drive (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12								X			
				Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local							X	
WHPA - B	8	Code Street (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12						X			
				Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local							X	

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Prescribed Drinking Water Threat (PDWT)						WHPA - A, B, & Elevated B & C		WHPA - C		WHPA - D <sup>6</sup>		Threat Class <sup>5</sup>				
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	WHPA - A, B, & Elevated B & C		WHPA - C		WHPA - D <sup>6</sup>		S	M	L		
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>					
WHPA - B	10	Highway 15 (Road - Expressway/Highway)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12						X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local						X		
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local					X			
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local					X			
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.	1	local					X			
WHPA - D	6	Highway 401 (Road - Expressway/Highway)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water					1	12			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.					1	local			X	
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.					1	local			X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.					1	local	X			
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.					1	local				X
WHPA - B	8	John F. Scott Road (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local					X	
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local					X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local			X			
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local					X	
WHPA - B	8	Kingston Mills Road (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local					X	
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local					X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local			X			
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local					X	
WHPA - A	10	Marian Crescent (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12						X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local							X	
WHPA - B	8	Old Kingston Mills Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local					X	
WHPA - A	10	Rochdale Crescent (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12						X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local							X	
WHPA - B	10	CN Railway	Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local						X		
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local					X			
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local					X			
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.	1	local					X			
WHPA - A, B		Sewer mainlines and connections	Sewage works	643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	The system is designed to convey more than 250, but not more than 1,000 cubic metres of sewage per day.	1	2	1					X		
				1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	The discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.							X			

Cana WHPA: Summary of Parcels and with Identified Drinking Water Threats					Total Number of Parcels			Total Number of Threats		
Threat Classification	WHPA - A	WHPA - B	WHPA - C	WHPA - D	S	M	L	S	M	L
Significant (S)	8	14	0	1	23			30		
Moderate (M)	8	35	1	0		44			52	
Low (L)	0	3	0	6			9			13
Total Number of Parcels	16	52	1	7	76					
Total Number of Threats Present <sup>8</sup>	17	66	2	10				95		

Note: Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged. Technical Rules: Assessment Report, 2009b).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within Appendix F-3.

<sup>2</sup> Circumstances listed may represent the more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected Parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix F-1).

<sup>5</sup> Only the highest ranked threat activity, circumstance and reference number is counted per parcel (shaded BOLD). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> Cana WHPA 'D' vulnerability score is elevated from 4 to 6.

<sup>7</sup> Assumption that only one septic system is present and is reflected in the individual threat enumeration.

<sup>8</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threat activities associated to corridors and sewer.

For example, one road in WHPA 'A' would equal one threat count for road salt application even though it is not a separate property parcel. It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually: one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

Table 2 Lansdowne Wellhead Protection Area (WHPA), Township of Leeds and the Thousand Islands - Threat Enumeration																				
Land activities (referenced by circumstance) within the Lansdowne groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.																				
Prescribed Drinking Water Threat (PDWT)						WHPA - A		WHPA - B		WHPA - C		WHPA - D <sup>6</sup>		Threat Class <sup>5</sup>						
						Vuln Sc = 10		Vuln Sc = 10		Vuln Sc = 8		Vuln Sc = 6								
Zone Description	VS	Threat ID	Threat <sup>8</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>		Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L									
WHPA - C	8	ld.2	Sewage Works	880 - 900, 902, 903	The system is a wastewater treatment facility that discharges directly to land or surface water through a means other than a designed bypass.						1	2					X			
			NASM	1419	The non-agricultural source material is stored at or above grade on a temporary field nutrient storage site.								7					X		
WHPA - A	10	ld.3	Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.		1	15									X			
				1349, 1350, 1351, 1352, 1353	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.														X	
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			16										X		
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.														X	
WHPA - A	10	ld.4	ASM	1964	The agricultural source material is stored at a temporary field nutrient storage site.		1	4									X			
				1219, 1220	The agricultural source material is stored at or above grade on a temporary field nutrient storage site													X		
			Fuel	137, 138, 139, 140, 141	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.			15										X		
				1324, 1325, 1326, 1327, 1328	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.														X	
WHPA - B	10	ld.6	ASM	5	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				1	3							X			
				1944	Agricultural source material is applied to land in any quantity.														X	
			Fertilizer	23	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.							8						X		
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.								10						X	
			Road Salt	1435, 1436	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.								13						X	
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.									15					X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.															X
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.									16						X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.															X
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.									17						X
WHPA - C	8	ld.7	ASM	5	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.						1	3					X			
				23	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.									8				X		
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.										10				X	







**Table 2 Lansdowne Wellhead Protection Area (WHPA), Township of Leeds and the Thousand Islands - Threat Enumeration**  
Land activities (referenced by circumstance) within the Lansdowne groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						WHPA - A		WHPA - B		WHPA - C		WHPA - D <sup>6</sup>		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>8</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	WHPA - A		WHPA - B		WHPA - C		WHPA - D <sup>6</sup>		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>									
WHPA - D	6	ld.171 - ld.172	Fuel	1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.							2	15			X
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.											
WHPA - C	8	ld.173	ASM	5	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.					1	3					X
			Fertilizer	23	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.						8					X
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.							10				
WHPA - D	6	ld.174	ASM	5	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.							1	3			X
			Fertilizer	23	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.							8				X
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.							10				
WHPA - D	6	ld.175-177	Sewage Works	695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.							3	3			X
			Fuel	1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.								8			X
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.								10			X
WHPA - B	10	Beatty Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12						X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local						X	
WHPA - B, C	10, 8	Centre Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12	1					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local	1					X	
WHPA - B	10	Church Street (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12						X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local						X	
WHPA - B, C	10, 8	Cliff Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12	1					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local	1					X	
WHPA - B	10	Frederick Street (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12						X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local						X	
WHPA - B, C, D	10, 8, 6	Garden Street (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12	1		1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local	1		1			X	
WHPA - D	6	Gilbert Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	local			X

**Table 2 Lansdowne Wellhead Protection Area (WHPA), Township of Leeds and the Thousand Islands - Threat Enumeration**  
Land activities (referenced by circumstance) within the Lansdowne groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						WHPA - A		WHPA - B		WHPA - C		WHPA - D <sup>6</sup>		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat <sup>8</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 10		Vuln Sc = 10		Vuln Sc = 8		Vuln Sc = 6		S	M	L	
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>										
WHPA - D	6	Grand Trunk Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.							1	12			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.								1	local			X
WHPA - D	6	James Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	local			X	
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12							X	
WHPA - B	10	Jessie Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.										X		
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12							X	
WHPA - B	10	Johnston Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.										X		
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12							X	
WHPA - C, D	8, 6	King Street East (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	local		X		
			Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.							1	12	1			X
WHPA - B, C, D	10, 8, 6	King Street West/Eden Grove Road (Road - Collector)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	1			X	
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12	1		1				X	
			Transportation of Pesticides	n/a	The transportation of pesticides.					1	local	1		1			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.					1	local	1		1			X
WHPA - C	8	Miller Street (Road - Local/Street)	Transportation of Solvents	n/a	The organic solvent is transported in a container.							1	1		X		
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.							1	12				X
WHPA - B, C, D	10, 8, 6	Prince Street/Outlet Road (Road - Collector)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	local			X	
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12	1		1				X	
			Transportation of Pesticides	n/a	The transportation of pesticides.					1	local	1		1			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.					1	local	1		1			X
WHPA - C	8	Union Street (Road - Local/Street)	Transportation of Solvents	n/a	The organic solvent is transported in a container.							1	1		X		
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.							1	12				X
WHPA - B	10	Wedgewood Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	local			X	
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12							X	
WHPA - B	10	Yonge Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.							1	local			X	
			Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.							1	12				X
WHPA - B, C, D	10, 8, 6	Sewer mainlines and connections	1958	1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.										X		
			643 - 655	643 - 655	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.			1	2	1		1				X	

Lansdowne WHPA: Summary of Parcels and with Identified Drinking Water Threats					Total Number of Parcels			Total Number of Threats		
Threat Classification	WHPA - A	WHPA - B	WHPA - C	WHPA - D	S	M	L	S	M	L
Significant (S)	4	60	0	0	64			77		
Moderate (M)	0	26	80	0		106			127	
Low (L)	0	8	2	31			41			52
<b>Total Number of Parcels</b>	<b>4</b>	<b>94</b>	<b>82</b>	<b>31</b>	<b>211</b>					
<b>Total Number of Threats Present<sup>8</sup></b>	<b>11</b>	<b>106</b>	<b>100</b>	<b>39</b>				<b>256</b>		

Note: Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( Technical Rules: Assessment Report, 2009b).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within Appendix 'F-3'.

<sup>2</sup> Circumstances listed may represent the more than one contaminant, note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected Parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities. Multiple parcels with the same threat are grouped in WHPAs 'B', 'C' and 'D'.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix 'F-1').

<sup>5</sup> Only the highest ranked threat activity, circumstance and reference number is counted per parcel (shaded BOLD). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> Lansdowne WHPA 'D' vulnerability score is elevated from 4 to 6.

<sup>7</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

<sup>8</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threat activities associated to corridors and sewer.

For example, one road in WHPA 'A' would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.







**Table 3 Miller Manor Apartments Wellhead Protection Area (WHPA), Mallorytown, Township of Front and Yonge - Threat Enumeration**  
Land activities (referenced by circumstance) within the Miller Manor Apartments groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						WHPA - A		WHPA - B		WHPA - C		WHPA - D (elevated)		WHPA - D		Threat Class <sup>5</sup>		
						Vuln Sc = 10		Vuln Sc = 10		Vuln Sc = 8		Vuln Sc = 6		Vuln Sc = 4				
Zone Description	VS	Threat ID	Threat <sup>3</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L								
WHPA - D	6	mm.78 - mm.104	Sewage works	695, 696, 697, 698, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.								27	2				X
WHPA - D	6	mm.105 & mm.106	ASM	5	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.								2	3				X
				23	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.								8					X
				77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.									10				
WHPA - A, B, C, D	10, 8, 6	County Road 2 (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.		1	12	1		1		1					X
				n/a	The transportation of liquid fuel.		1	local	1		1		1					X
				n/a	The transportation of pesticides.		1	local	1		1		1					X
				n/a	The transportation of a DNAPL.		1	local	1		1		1					X
				n/a	The organic solvent is transported in a container.		1	local	1		1		1					X
WHPA - A, B, C	10, 8	Miller Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.		1	12	1		1						X	
				n/a	The transportation of liquid fuel.		1	local	1		1						X	
WHPA - D	6	Orchard Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.								1	12				X
				n/a	The transportation of liquid fuel.									1	local			
WHPA - D	6	Park Lane (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.								1	12				X
				n/a	The transportation of liquid fuel.									1	local			
WHPA - C, D	8, 6	Peryl Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.						1	12	1					X
				n/a	The transportation of liquid fuel.								1	local	1			
WHPA - C, D	8, 6	Quabbin Road (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.						1	12	1					X
				n/a	The transportation of liquid fuel.								1	local	1			
WHPA - D	6	Tedmar Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.								1	12				X
WHPA - D	6	Tedmar Drive (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.								1	local				X

Miller Manor WHPA: Summary of Parcels and with Identified Drinking Water Threats					Total Number of Parcels			Total Number of Threats		
Threat Classification	WHPA - A	WHPA - B	WHPA - C	WHPA - D	S	M	L	S	M	L
Significant (S)	17	3	0	0	20			27		
Moderate (M)	4	0	18	0		22			34	
Low (L)	0	0	2	77			79			124
<b>Total Number of Parcels</b>	<b>21</b>	<b>3</b>	<b>20</b>	<b>77</b>	<b>121</b>					
<b>Total Number of Threats Present<sup>6</sup></b>	<b>28</b>	<b>7</b>	<b>28</b>	<b>122</b>				<b>185</b>		

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in. (Technical Rules: Assessment Report, 2009b).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE, 2010 within Appendix 'F-3'.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected Parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities. Multiple parcels with the same threat are grouped in WHPAs 'C' and 'D'.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix 'F-1').

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded BOLD). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threat activities associated to corridors. For example, one road in WHPA 'A' would equal one threat count for road salt application even though it is not a separate property parcel.

<sup>7</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

<sup>8</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threat activities associated to corridors. For example, one road in WHPA 'A' would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

**Table 4 Westport Wellhead Protection Area (WHPA), - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Westport groundwater supply well WHPA, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)					WHPA - A, B, & (elevated) C		WHPA - C		WHPA - D		Threat Class <sup>5</sup>						
					Vuln Sc = 10		Vuln Sc = 8		Vuln Sc = 6		Vuln Sc = 4		S	M	L		
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>		Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L						
WHPA-D	6	wp.1	ASM	17, 18	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is more than 80%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.								1	3			X
				1944	Agricultural source material is applied to land in any quantity.												X
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.									8			X
				35, 36	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is more than 80%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.												X
			Pesticide	66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76	The area of land to which the pesticide is applied is more than 10 hectares.									10			X
WHPA - D			8 <sup>th</sup> Concession (Road - Collector)										1				No streets exist within the Cataraqi Source Protection Area
WHPA - D			Adam Street (Road - Local/Street)		(Road - Local/Street)								1				
WHPA - C, D			Bedford Street (Road - Collector)					1		1			1				
WHPA - D			Centre Street (Road - Local/Street)										1				
WHPA - A, B, C, D			Concession Street / County Road 12 / County Road 42 (Road - Collector)				1		1	1			1				
WHPA - D			County Road 36 (Road - Collector)										1				
WHPA - D			Lakeview Drive (Road - Local/Street)										1				
WHPA - D			Main Street (Road - Collector)										1				
WHPA - B, C, D			Rideau Street (Road - Collector)				1		1	1			1				
WHPA - B, C, D			Spring Street (Road - Local/Street)										1				
WHPA - C, D			Whelan Street (Road - Local/Street)										1				

Westport WHPA: Summary of Parcels and with Identified Drinking Water Threats					Total Number of Parcels			Total Number of Threats						
Threat Classification	WHPA - A		WHPA - B	WHPA - C	WHPA - D	S	M	L	S	M	L			
Significant (S)	Please refer to Mississippi-Rideau Source Protection Region Drinking Water Threats Inventory (Proposed Assessment Report, 2010)				0	0			0					
Moderate (M)					0					0				
Low (L)					1							1		3
Total Number of Parcels					1					1				3
Total Number of Threats Present					3									

**Note:** Data contained within this table provided to fulfill requirement 9(1)(e): the number of locations at which an activity that is a significant drinking water threat is being engaged in (*Technical Rules: Assessment Report, 2009b*).

All data contained within this table was extracted from Mississippi-Rideau Source Protection Region Drinking Water Threats and Issues Inventory (Proposed Assessment Report, 2010)

<sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a).

<sup>2</sup> Circumstances listed may represent the more than one contaminant; note Reference Number.

<sup>3</sup> Affected Parcels represents the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**).

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities

**Table 5 Brockville Intake Protection Zone (IPZ), City of Brockville & Township of Elizabethtown-Kitley - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Brockville surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>					
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L			
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>						
IPZ - 2	8.1	br.2	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X			
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								X	
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.					15			X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.								X	
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.					16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.								X	
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.					17				X
IPZ - 2	8.1	br.3	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X			
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								X	
			Stormwater	315	The system is a storm water management facility designed to discharge storm water to land or surface water.	The drainage area associated with the storm water management facility is more than 10 but not more than 100 hectares and the predominant land uses in the area are rural, agricultural, or low density residential.					2			X	
				1949	The system is a storm water management facility designed to discharge storm water to land or surface water.	The discharge may result in the presence of one or more pathogens in groundwater or surface water.									X
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.					8			X	
				1285, 1286	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 2,500 kilograms.					9			X	
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	A spill may result in the presence of one or more pesticides in groundwater or surface water.					10	X			
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.					15			X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.								X	
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.					16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.								X	
Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.					17				X			
IPZ - 2	8.1	br.4	Sewage works	1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	The discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X			
				137, 138, 139, 140, 141	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 25, but not more than 250 litres.					15			X	
			1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 25, but not more than 250 litres.									X	
IPZ - 2	8.1	br.6	Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.			1	15		X			
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.							X		
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.					16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.								X	
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.					17				X



**Table 5 Brockville Intake Protection Zone (IPZ), City of Brockville & Township of Elizabethtown-Kitley - Threat Enumeration**  
Land activities (referenced by circumstance) within the Brockville surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>						
						Vuln Sc = 9		Vuln Sc = 8.1		S	M	L				
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>							
IPZ - 2	8.1	br.44	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X				
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								X		
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.					3		X			
			1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.							X				
			1217, 1218	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.						4		X			
			1962	Any portion of the agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.								X			
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.						8		X		
			1277, 1278	The commercial fertilizer is stored at a facility where it is manufactured or processed, or from which it is wholesaled, excluding storage related solely to retail sale or in relation to the application of the fertilizer.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 25 but not more than 250 kilograms.							9			X	
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.						10	X			
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.						15			X	
			1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.										X	
			Solvents	1225, 1226, 1227, 1228	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is not more than 25 litres.						17			X	
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.						21	X			
			210, 211	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of more than 300 nutrient units per hectares of the area annually.									X		
			204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.									X		
			IPZ - 2	8.1	br.45 <sup>7</sup>	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X	
							695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							
						1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.						2		X
695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.												X		
1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.									2		X			
695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.												X		
1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.									2		X			
695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.												X		
1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.									2		X			
695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.												X		
ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				The application may result in the presence of Nitrogen in groundwater or surface water.						3		X		
1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.											X			
1217, 1218	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.										4		X		
1962	Any portion of the agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.											X			
Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.						8		X		
1277, 1278	The commercial fertilizer is stored at a facility where it is manufactured or processed, or from which it is wholesaled, excluding storage related solely to retail sale or in relation to the application of the fertilizer.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 25 but not more than 250 kilograms.										9			X	
Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.				The application may result in the presence of one or more pesticides in groundwater or surface water.						10	X			

Table 5 Brockville Intake Protection Zone (IPZ), City of Brockville & Township of Elizabethtown-Kitley - Threat Enumeration												
Land activities (referenced by circumstance) within the Brockville surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.												
Prescribed Drinking Water Threat (PDWT)												
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L
IPZ - 2	8.1	br.45 <sup>7</sup> (continued)	Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15			X
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.					X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15		X	
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.					X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15		X	
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.					X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15		X	
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.					X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15		X	
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.					X	
IPZ - 2	8.1	br.46	Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.			1	8		X
				66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76	The area of land to which the pesticide is applied is at least 1 hectare, but not more than 10 hectares.	A spill may result in the presence of one or more pesticides in groundwater or surface water.			10		X	
				1955	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			128	2		X
IPZ - 2	8.1	br.47 - br.174	Sewage works	695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.						X
				90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1		X	
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1		X	
IPZ-1,2	9, 8.1	Ann Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12		X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X
IPZ-2	8.1	Apple Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12		X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X
IPZ-2	8.1	Baxter Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12		X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X
IPZ-1,2	9, 8.1	Bayview Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1			X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1			X
IPZ-2	8.1	Beecher Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12		X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X
IPZ-2	8.1	Block House Island Parkway (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12		X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X
IPZ-2	8.1	Broad Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12		X
				n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X

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Land activities (referenced by circumstance) within the Brockville surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.												
Prescribed Drinking Water Threat (PDWT)					IPZ-1		IPZ-2		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	8.1	Buell Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Centre Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Chase Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2		Chipman Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Church Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Clarissa Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Country Club Place (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	County Road 2 / King Street West (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	County Road 42 (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	Court House Avenue (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	Court House Square (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	Curzon Avenue (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Edward Lane (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Edward Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Fairway Crescent (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Fernbank Road (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Ferry Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Flint Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	



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Land activities (referenced by circumstance) within the Brockville surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.												
Prescribed Drinking Water Threat (PDWT)					IPZ-1		IPZ-2		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	8.1	Pine Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Pineview Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Queensgrove Road (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Rivers Avenue (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2		Sabine Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Sheridan Mews (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Sherwood Bay Road (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2		Sherwood Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	St. Andrew Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	St. Paul Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Swift Waters Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Thomas Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Victoria Avenue (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Wanda Drive (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Water Street East (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Water Street West (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Yole Crescent (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	St. Lawrence Seaway	Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local				X	
			Transportation of Pesticides	n/a	The transportation of pesticides.	1	local				X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	1	local				X	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	1	local				X	
IPZ-1,2	9, 8.1	Sewer mainlines and connections	Sewage works	669 - 676, 678 - 681	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	1	2	1				X
				1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.						X	

Brockville IPZ: Summary of Parcels and with Identified Drinking Water Threats				Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1	IPZ 2	S	M	L	S	M	L	
Significant (S)	0	3	3			9			
Moderate (M)	44	249		293			303		
Low (L)	0	8			8			8	
<b>Total Number of Parcels</b>	<b>44</b>	<b>260</b>	<b>304</b>						
<b>Total Number of Threats Present</b> <sup>6</sup>	<b>45</b>	<b>311</b>				<b>356</b>			

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e); the number of locations where an activity that is a significant drinking water threat is being engaged in ( *Technical Rules: Assessment Report, 2009b*). Assumption: It has been assumed that for the parcels of land on the islands within the IPZ are using a fuel source other than oil products (propane, wood). This assumption is made as there are no ferry crossings that would allow the transport of fuel filling vehicles to these largely seasonal or cottage properties. Sewage works have been enumerated for the island parcels.

- <sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within **Appendix 'F-3'** .
  - <sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.
  - <sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have more than one activity on-site.
  - <sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**).
  - <sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).
  - <sup>6</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to road networks and sewer. For example, one road in IPZ 1 would equal one threat count for road salt application even though it is not a separate property parcel.
  - <sup>7</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.
  - <sup>8</sup> Parcel br.45 is one parcel with multiple residences and infrastructure. Therefore, the enumeration reflects the five septic systems present on the parcel. Similarly, fuel is counted to reflect the quantity present and to reflect the risk associated with failure of an individual fuel and septic tank spill or leakage.
- It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.





**Table 6 James W. King (Gananoque) Intake Protection Zone (IPZ), Town of Gananoque - Threat Enumeration**  
Land activities (referenced by circumstance) within the James W. King (Gananoque) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)																	
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>							
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L					
IPZ - 1	9	jk.33 - jk.36	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.	4	2				X					
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X				
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.		15					X				
				1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.								X			
IPZ - 1	9	jk.37 - jk.43	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.	7	2				X					
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								X			
IPZ - 1	9	jk.44 - jk.60	Sewage works	1957	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.	17	2				X					
				707, 708, 709, 710, 712	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	The system is subject to the Ontario Building Code Act, 1992.								X			
IPZ - 2	8.1	jk.61 - jk.71	Sewage works	1957	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.			11	2		X					
				707, 708, 709, 710, 712	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	The system is subject to the Ontario Building Code Act, 1992.								X			
IPZ - 2	8.1	jk.84	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X					
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								X			
				5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.				3			X				
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.							X				
				1217	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.					4			X			
				1962	Any portion of the agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.							X				
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.							8		X		
				1277, 1278	The commercial fertilizer is stored at a facility where it is manufactured or processed, or from which it is wholesaled, excluding storage related solely to retail sale or in relation to the application of the fertilizer.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 25 but not more than 250 kilograms.							9			X	
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.							10	X			
				Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.							15		X	
			1354, 1355, 1356, 1357, 1358		The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.									X		
			157, 158, 159, 160, 161		The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.								15		X	
			1359, 1360, 1361, 1362, 1363		The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.										X	
			Solvents	1225, 1226, 1227, 1228	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is not more than 25 litres.								17			X
Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.		The land use may result in the presence of one or more pathogens in groundwater or surface water.							21	X					
	210, 211	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of more than 300 nutrient units per hectares of the area annually.										X				
	204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.										X				
IPZ-2	8.1	Adelaide Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12		X					
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X				
IPZ-2	8.1	Arthur Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12		X					
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X				
IPZ-1,2	9, 8.1	Bay Road (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1			X					
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X				
IPZ-2	8.1	Birch Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12		X					
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X				

**Table 6 James W. King (Gananoque) Intake Protection Zone (IPZ), Town of Gananoque - Threat Enumeration**  
Land activities (referenced by circumstance) within the James W. King (Gananoque) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	8.1	Centre Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Charles Street North (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	Charles Street South (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Church Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Churchill Drive (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Clarence Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	County Road 2 / King Street East and West (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	Dempster Lane (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Elm Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Emma Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	First Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Forsyth Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Fourth Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
IPZ-2	8.1	Garden Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Georgiana Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Henrietta Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	

**Table 6 James W. King (Gananoque) Intake Protection Zone (IPZ), Town of Gananoque - Threat Enumeration**  
 Land activities (referenced by circumstance) within the James W. King (Gananoque) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	8.1	Hickory Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Hillside Drive (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	James Street North (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	James Street South (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	John Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Machar Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Main Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Maple Street North (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Maple Street South (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Market Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-1	9	Mill Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local				X	
IPZ-2	8.1	North Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Oak Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Osborne Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Pine Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Princess Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local				X	
IPZ-2	8.1	River Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Second Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	South Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-1,2	9, 8.1	St. Lawrence Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	

**Table 6 James W. King (Gananoque) Intake Protection Zone (IPZ), Town of Gananoque - Threat Enumeration**  
Land activities (referenced by circumstance) within the James W. King (Gananoque) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	8.1	Steel Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Stone Street North (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local		X	
IPZ-1,2	9, 8.1	Stone Street South (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-2	8.1	Sydenham Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Tanner Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Third Street (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	Victoria Avenue (Road - Local / Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local		X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local		X	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local		X	
IPZ-1	9	Water Street West (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local				X	
IPZ-2	8.1	Wellington Street (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	William Street North (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-2	8.1	William Street South (Road - Local / Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local		X	
IPZ-1,2	9, 8.1	Windsor Street (Road - Local / Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-1,2	9, 8.1	St. Lawrence River, Gananoque River (local navigation)	Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1			X	
IPZ-1,2	9, 8.1	Sewer mainlines and connections	669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	The system is designed to convey more than 10,000, but not more than 100,000 cubic metres of sewage per day.	1	2	1				X
			1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	The discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.						X	

James W. King (Gananoque) IPZ: Summary of Parcels and with Identified Drinking Water Threats					Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1	IPZ 2	S	M	L	S	M	L		
Significant (S)	0	1	1			4				
Moderate (M)	58	108		166			196			
Low (L)	0	12			12			29		
Total Number of Parcels	58	121	179							
Total Number of Threats Present <sup>7</sup>	65	164				229				

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( Technical Rules: Assessment Report, 2009b). Assumption: It has been assumed that for the parcels of land on the islands within the IPZ are using a fuel source other than oil products (propane, wood). This assumption is made as there are no ferry crossings that would allow the transport of fuel filling vehicles to these largely seasonal or cottage properties. Sewage works have been enumerated for the island parcels.

<sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within **Appendix 'F-3'**.  
<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability.  
<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have more than one activity on-site.  
<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**).  
<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).  
<sup>6</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been included.  
<sup>7</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to road networks and sewer. For example, one road in IPZ 1 would equal one threat count for road salt application even though it is not a separate property parcel. It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

Table 6 Kingston Central Intake Protection Zone (IPZ), City of Kingston, - Threat Enumeration

Land activities (referenced by circumstance) within the Kingston Central surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1 <sup>6</sup>		IPZ-2 <sup>6</sup>		Threat Class <sup>5</sup>		
						Vuln Sc = 6		Vuln Sc = 4.8				
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L
IPZ-1	6	kc.2	Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	1	15					X
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.					X		
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	16			X			
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.				X			
			Solvents	1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	17			X			
IPZ-1	6	kc.3	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	1	16					X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
			Solvents	1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	17			X			
IPZ-2	4.8	kc.5	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.7	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.8	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.11	Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.			1	15			X
				107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.					16		X
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.					16		X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					17		X
IPZ-2	4.8	kc.14	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.15	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.16	DNAPLs	109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.18	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.19	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
IPZ-2	4.8	kc.21	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.					X		
			Solvents	1261, 1262	The organic solvent is stored in a container at or above grade.			17		X		

Table 6 Kingston Central Intake Protection Zone (IPZ), City of Kingston, - Threat Enumeration

Land activities (referenced by circumstance) within the Kingston Central surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1 <sup>6</sup>		IPZ-2 <sup>6</sup>		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 6		Vuln Sc = 4.8		S	M	L	
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>				
IPZ-2	4.8	kc.22	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.						X		
			Solvents	1261, 1262	The organic solvent is stored in a container at or above grade.					17		X	
IPZ-2	4.8	kc.24	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.						X		
			Solvents	1261, 1262	The organic solvent is stored in a container at or above grade.					17		X	
IPZ-2	4.8	kc.25	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.				16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.						X		
			Solvents	1261, 1262	The organic solvent is stored in a container at or above grade.					17		X	
IPZ-2	4.8	kc.26	Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.			1	15			X	
				107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.					16		X	
			DNAPLs	1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.							X	
				Solvents	1261, 1262	The organic solvent is stored in a container at or above grade.					17		X
IPZ-2	4.8	kc.28	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.						X		
IPZ-2	4.8	kc.29	DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.			1	16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.						X		
IPZ-2	4.8	Alamein Drive (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
IPZ-1,2	6, 4.8	Albert Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.	1	12	1				X	
				Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local	1		
IPZ-2	4.8	Brock Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
				Transportation of DNAPLs	n/a	The transportation of a DNAPL.					1	local	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.					1	local		X
IPZ-2	4.8	Byron Crescent (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
IPZ-2	4.8	Carruthers Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
IPZ-2	4.8	Centre Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
IPZ-2	4.8	Churchill Crescent (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
IPZ-2	4.8	College Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X	
IPZ-1,2	6, 4.8	Collingwood Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1				X	
				Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local	1		

Table 6 Kingston Central Intake Protection Zone (IPZ), City of Kingston, - Threat Enumeration

Land activities (referenced by circumstance) within the Kingston Central surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1 <sup>6</sup>		IPZ-2 <sup>6</sup>		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 6		Vuln Sc = 4.8		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	4.8	Division Street (Road - Collector)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Dundas Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Dunlop Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Durham Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Earl Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Franklin Place (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-1,2		George Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1				X
IPZ-2	4.8	Graham Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Helen Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Herchmer Crescent (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Hill Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Hillcroft Drive (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Johnson Street (Road - Collector)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Kensington Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	King Street East (Road - Collector)	Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-1,2	6, 4.8	King Street West (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1				X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	1	local	1				X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	1	local	1				X
IPZ-1,2	6, 4.8	Lower University Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1				X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	1	local	1				X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	1	local	1				X
IPZ-2	4.8	MacDonnell Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Mack Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Macpherson Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Metcalfe Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X

Table 6 Kingston Central Intake Protection Zone (IPZ), City of Kingston, - Threat Enumeration

Land activities (referenced by circumstance) within the Kingston Central surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1 <sup>6</sup>		IPZ-2 <sup>6</sup>		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 6		Vuln Sc = 4.8		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	4.8	Michael Grass Crescent (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Napier Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Nelson Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Norman Rogers Drive (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Oakridge Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Ontario Street (Road - Local/Street)	Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Palace Road (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Park Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Picard Place (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Portsmouth Avenue (Road - Collector)	DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Princess Street (Road - Collector)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Regent Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Scott Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Sir John A. MacDonald Boulevard (Road - Collector)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Smith Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-1,2	6, 4.8	St. Lawrence Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local			
IPZ-2	4.8	Toronto Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Traymoor Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
IPZ-2	4.8	Union Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	University Avenue (Road - Local/Street)	Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-2	4.8	Van Order Drive (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.			1	12			X

Table 6 Kingston Central Intake Protection Zone (IPZ), City of Kingston, - Threat Enumeration

Land activities (referenced by circumstance) within the Kingston Central surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1 <sup>6</sup> Vuln Sc = 6		IPZ-2 <sup>6</sup> Vuln Sc = 4.8		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>		Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L
IPZ-2	4.8	Victoria Street (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
IPZ-2	4.8	Westdale Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
IPZ-2	4.8	Willingdon Avenue (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
IPZ-2	4.8	Wright Crescent (Road - Local/Street)	Road Salt	94, 95	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is 80 percent or more.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
IPZ-2	4.8	Wolfe Island Ferry (highway/navigation channel)	Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local			X
IPZ-1,2	6, 4.8	Sewer mainlines and connections	Sewage Works	269	The system is a combined sewer that may discharge sanitary sewage containing human waste to surface water other than by way of a designed bypass.	The combined sewer is part of a system that includes a wastewater treatment facility designed to discharge treated sanitary sewage at an average daily rate that is more than 50,000 cubic metres on an annual basis.	1	2	1			X	
				1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	The discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.							X
				1947	The system is a combined sewer that may discharge sanitary sewage containing human waste to surface water.	The discharge may result in the presence of one or more pathogens in surface water.						X	

Kingston Central IPZ: Summary of Parcels and with Identified Drinking Water Threats				Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1	IPZ 2		S	M	L	S	M	L
Significant (S)	0	0		0			0		
Moderate (M)	1	0			1			1	
Low (L)	21	80				101			112
<b>Total Number of Parcels</b>	<b>22</b>	<b>80</b>		<b>102</b>					
<b>Total Number of Threats Present<sup>6</sup></b>	<b>25</b>	<b>88</b>					<b>113</b>		

Note: Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( Technical Rules: Assessment Report, 2009b).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within Appendix 'F-3'.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have more than one activity on-site.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix 'F-1').

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded BOLD). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to road networks and sewer. For example, one road in IPZ 1 would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

**Table 8 Point Pleasant Intake Protection Zone (IPZ), City of Kingston - Threat Enumeration**

Land activities (referenced by circumstance) within the Point Pleasant surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>										
Zone Description	VS	Threat ID	Threat	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 6		Vuln Sc = 4.2		S	M	L								
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>											
IPZ-1	6	pp.8	Fuels	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.	1	15				X								
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.							16			X				
				107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.											16			X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.														
				1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.											17			X
IPZ-1	6	pp.9	Fuels	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.	1	15				X								
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.							X							
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			16				X							
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.							X							
			Solvents	1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.			17				X							
IPZ-1,2	4.2	Keyes Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X							
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X							
IPZ-1,2		Point Crescent Road (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X							
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X							
IPZ-1,2		Sunny Acres Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X							
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X							
IPZ-1,2		Lake Ontario (local navigation)	Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X							
IPZ-1,2		Sewer mainlines and connections	Sewage Works	1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	The discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.	1	2	1				X							
				669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	The system is designed to convey more than 10,000, but not more than 100,000 cubic metres of sewage per day.							X							

Point Pleasant IPZ: Summary of Parcels and with Identified Drinking Water Threats					Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1		IPZ 2		S	M	L	S	M	L
	Significant (S)	0	0	0	0	0			0	
Moderate (M)	0	0	0	0		0			0	
Low (L)	10	0	0	0			10			14
Total Number of Parcels	10	0	0	0	10					
Total Number of Threats Present <sup>6</sup>	14	0	0	0				14		

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e); the number of locations where an activity that is a significant drinking water threat is being engaged in ( Technical Rules: Assessment Report, 2009b).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within Appendix 'F-3'.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix 'F 1').

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded BOLD). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to corridors and sewer networks.

For example, one road in IPZ '1' would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.







**Table 9 Fairfield (Amherstview) Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration**

Land activities (referenced by circumstance) within the Fairfield (Amherstview) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 6.3		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-1	7	ff. 11 - ff. 18 (continued)	Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.	15					X
				1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.					X	
IPZ-1	7	ff. 19 - ff. 30	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.	13	2				X
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.						X
IPZ-2	6.3	ff.32 - ff.37	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.		6	2			X
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.				15		X
IPZ-2	6.3	ff.38 - ff.67	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.		30	2			X
IPZ-2	6.3	Addington Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-2	6.3	Amherst Drive (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.		1	local			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.		1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.		1	local			X
IPZ-2	6.3	Asbury Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-1,2	7,6.3	Bath Road (Road - Expressway/Highway)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1			X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.	1	local	1			X
IPZ-2	6.3	Briscoe Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-2	6.3	Cambridge Crescent (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-2	6.3	Chesterfield Drive (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-2	6.3	Clairton Place (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-2	6.3	Cornell Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.		1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		1	local			X
IPZ-1,2	7,6.3	Coronation Boulevard (Road - Collector)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1			X

**Table 9 Fairfield (Amherstview) Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Fairfield (Amherstview) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 6.3		S	M	L	
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>				
IPZ-1,2	7,6.3	Coronation Boulevard (Road - Collector) (continued)	Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1			X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1		X		
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.	1	local	1		X		
IPZ-2	6.3	County Road 6 (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Davey Crescent (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Deerfield Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-1,2		Fairfield Boulevard (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X
IPZ-2	6.3	Green Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Harcourt Place (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Harvard Place (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Havergal Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Henry Crescent (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Huff Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Hyland Court (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Kidd Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Kildare Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Lennox Place (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Littlefield Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X
IPZ-2	6.3	Loyalist Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X

**Table 9 Fairfield (Amherstview) Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Fairfield (Amherstview) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 6.3		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	6.3	Manitou Crescent East (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of Fuels	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Manitou Crescent West (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	McKeown Crescent (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Miller Place (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Morden Crescent (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Mortensen Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Nicholson Crescent (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Oxford Crescent (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Park Crescent (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Pittsfield Street (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Princeton Place (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Quinte Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Rothwell Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-1,2	7,6.3	Sherwood Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	1	12	1				X
			Transportation of fuel	n/a	The transportation of liquid fuel.	1	local	1				X
IPZ-2	6.3	Speers Boulevard (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Tareyton Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Upper Park Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	Wedgewood Road (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-1,2		Westfield Drive (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	1	12	1				X
			Transportation of fuel	n/a	The transportation of liquid fuel.	1	local	1				X

**Table 9 Fairfield (Amherstview) Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Fairfield (Amherstview) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>7</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 6.3		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	6.3	Westran Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	6.3	CNR (railway)	Transportation of fuel	n/a	The transportation of liquid fuel.			1	local			X
			Transportation of Pesticides	n/a	The transportation of pesticides.			1	local			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.			1	local			X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.			1	local			X
IPZ-1,2	7,6.3	Lake Ontario (local navigation)	Transportation of fuel	n/a	The transportation of liquid fuel.	1	local	1				X
IPZ-1,2	7,6.3	Sewer mainlines and connections	Sewage Works	669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	1	2	1				X
				1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.							

Fairfield (Amherstview) IPZ: Summary of Parcels and with Identified Drinking Water Threats				Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1	IPZ 2		S	M	L	S	M	L
Significant (S)	0	0		0			0		
Moderate (M)	5	2			7			12	
Low (L)	37	136				173			211
<b>Total Number of Parcels</b>	<b>42</b>	<b>138</b>		<b>180</b>					
<b>Total Number of Threats Present<sup>6</sup></b>	<b>55</b>	<b>168</b>					<b>223</b>		

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( *Technical Rules: Assessment Report*, 2009b).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within **Appendix 'F-3'**.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**). Note: Duplicate threat numbers within same parcel indicate that this threat is occurring within the parcel in more than one area. Example: a parcel with more than one household represents the presence of more than one septic system or fuel tank within the parcel. Enumerating the number of septic systems and fuel tanks individually accounts for the individual risk associated with failure and/or leakage of individual septic systems and fuel tanks.

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to corridors and sewer.

For example, one road in IPZ '1' would equal one threat count for road salt application even though it is not a separate property parcel.

<sup>7</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

Table 10 Bath Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration																							
Land activities (referenced by circumstance) within the Bath surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water																							
Prescribed Drinking Water Threat (PDWT)																							
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>													
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L											
IPZ-1	7	ba.1	Sewage Works	1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.	1	2					X										
				669-681	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	The system is designed to convey more than 10,000, but not more than 100,000 cubic metres of sewage per day.								12	13			X					
			Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	A spill may result in the presence of Chloride or Sodium in groundwater or surface water.																	
				1435, 1436	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.	The quantity stored is less than 500 tonnes.																	
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.													15				X
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.																	
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.																	
IPZ-2	6.3	ba.3	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.			1	12			X										
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.								15				X					
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.													16				X
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.								17				X					
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.																	
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.																	
			IPZ-2	6.3	ba.4 <sup>7</sup>	Waste								1687 - 1698	The land disposal of industrial waste or commercial waste within the meaning of clause (c) of the definition of "land disposal" in section 1 of Regulation 347 (General - Waste Management) made under the Environmental Protection Act, is undertaken at the site.	The fill area is least 1, but not more than 10 hectares.			1 (2) <sup>7</sup>	1			X
1884 - 1893	Hazardous waste or liquid industrial waste is stored, and a portion, but not all of the waste is stored above grade.	A discharge of the waste may result in the presence of one or more contaminants (one or more of its individual compounds) in groundwater or surface water.					2				X												
Stormwater	467 - 485	The system is a storm water management facility designed to discharge storm water to land or surface water.				The drainage area associated with the storm water management facility is more than 10 but not more than 100 hectares and the predominant land uses in the area are industrial or commercial.						2				X							
	1949	The system is a storm water management facility designed to discharge storm water to land or surface water.				The discharge may result in the presence of one or more pathogens in groundwater or surface water.	2				X												
	448 - 466	The system is a storm water management facility designed to discharge storm water to land or surface water.				The drainage area associated with the storm water management facility is more than 1 but not more than 10 hectares and the predominant land uses in the area are industrial or commercial.						3				X							
	1949	The system is a storm water management facility designed to discharge storm water to land or surface water.				The discharge may result in the presence of one or more pathogens in groundwater or surface water.																	
Sewage works	1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.				A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.	2				X												
	682 - 694	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.				The system is designed to convey more than 10,000, but not more than 100,000 cubic metres of sewage per day.						3				X							
ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.	3				X												
	1944	Agricultural source material is applied to land in any quantity.				The application may result in the presence of one or more pathogens in groundwater or surface water.						3				X							
	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.	8				X												
	1944	Agricultural source material is applied to land in any quantity.				The application may result in the presence of one or more pathogens in groundwater or surface water.																	
Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.	8					X											
	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.				The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.																	
Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.				The application may result in the presence of one or more pesticides in groundwater or surface water.	10					X											
Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.				The application may result in the presence of Sodium & Chloride in groundwater or surface water.							12										
Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.				The quantity of liquid fuel stored is more than 2,500 litres.	15				X												
	1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.				The fuel is stored in a quantity that is more than 2,500 litres.																	

Table 10 Bath Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration																
Land activities (referenced by circumstance) within the Bath surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water																
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>						
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L				
IPZ-2	6.3	ba.4 <sup>7</sup> (continued)	Fuel (continued)	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.			1 (2) <sup>7</sup>	15			X			
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.							X			
				177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.						15		X		
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.								X		
				DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.						16		X	
					1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.								X	
				Solvents	1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.						17		X	
IPZ-2	6.3	ba.5	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.			1	12			X			
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.					15		X			
				1389, 1390, 1391, 1392, 1393	The storage of liquid fuel in a tank below grade and at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.								X		
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.						16		X		
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.									X	
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.							17		X	
IPZ-2	6.3	ba.6	Stormwater	315-333	The system is a storm water management facility designed to discharge storm water to land or surface water.	The drainage area associated with the storm water management facility is more than 10 but not more than 100 hectares and the predominant land uses in the area are rural, agricultural, or low density residential.			1	2					X	
				1949	The system is a storm water management facility designed to discharge storm water to land or surface water.	The discharge may result in the presence of one or more pathogens in groundwater or surface water.								X		
			Fertilizer	21, 22	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.					8			X		
				1285, 1286	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 2,500 kilograms.						9		X		
			Pesticide	77 - 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.						10		X		
				1157-1178	A pesticide is stored for retail sale or for use in extermination within the meaning of the Pesticides Act.	The total mass of all materials stored that contain the pesticide, in any form including liquid or solid, is more than 250 but not more than 2,500 kilograms.							11		X	
			Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.							12		X	
			Fuel	137, 138, 139, 140, 141	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 25, but not more than 250 litres.								15		X
IPZ-2	6.3	ba.7	Stormwater	315-333	The system is a storm water management facility designed to discharge storm water to land or surface water.	The drainage area associated with the storm water management facility is more than 10 but not more than 100 hectares and the predominant land uses in the area are rural, agricultural, or low density residential.			3	2						X
				1949	The system is a storm water management facility designed to discharge storm water to land or surface water.	The discharge may result in the presence of one or more pathogens in groundwater or surface water.										X
			Fertilizer	21, 22	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.					8				X	
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.								10		X
IPZ-2	6.3	ba.8	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.			1	12					X	
			Solvents	1237, 1238, 1239, 1240	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.						17			X	
IPZ-2	6.3	ba.9	ASM	5, 8	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.			3	3			X			
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.							X			
			NASM	39, 40	The non-agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.					6		X			
				1971	The application of any quantity of non-agricultural source material that contains materials from a meat plant or sewage works.	The application may result in the presence of one or more pathogens in groundwater or surface water.								X		
			Fertilizer	21, 22	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.						8		X		
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.							10		X	



Table 10 Bath Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration													
Land activities (referenced by circumstance) within the Bath surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water													
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>			
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L	
IPZ-2	6.3	ba.12 (continued)	Fuel (continued)	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			1 (continued)	15		X	
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.						X	
IPZ-2	6.3	ba.13 - ba.25	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			13	2			X
				5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.					3		X
			1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.					X			
			1217, 1218	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.			4		X			
			1962	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.					X			
			Fertilizer	21, 22	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually apply agricultural source material at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.			8		X		
				1283, 1284	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 250, but not more than 2,500 kilograms.			9		X		
			Pesticides	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.			10		X		
				Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			15		X	
			1354, 1355, 1356, 1357, 1358		The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.					X		
			Solvents	1237-1258	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.			17		X		
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.			21		X		
				206, 207	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of less than 120 nutrient units per hectares of the area annually.					X		
				204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.					X		
IPZ-2	6.3	ba.26-ba.33	ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.			8	3		X	
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X	
			Fertilizer	21, 22	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is at least 0.5 nutrient units per acre but not more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.			8		X		
				Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.			10		X	
IPZ-2	6.3	ba.34 - ba.41	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			8	2		X	
				Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.					15	
IPZ-2	6.3	Abbey Dawn Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X	
IPZ-2	6.3	Academy Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12		X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X	
IPZ-1,2	7, 6.3	Bath Road / Main Street (Road - Expressway/ Highway)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1				X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1			X	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.	1	local	1			X	
IPZ-1,2	7, 6.3	Bayshore Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X



**Table 10 Bath Intake Protection Zone (IPZ), Loyalist Township - Threat Enumeration**  
Land activities (referenced by circumstance) within the Bath surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>					
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 6.3		S	M	L			
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>						
IPZ-1.2	7, 6.3	Rogers Lane (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X		
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1					X	
IPZ-2	6.3	Second Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local					X
IPZ-2	6.3	Somerset Drive (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local					X
IPZ-2	6.3	Townline Road (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local					X
IPZ-2	6.3	Westbury Avenue (Road - Local/Street)	Road Salt	92, 93	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 8, but less than 80 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12				X	
IPZ-2	6.3	(railway spurline)	Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local				X	
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local					X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local					X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local					X
IPZ-1.2		Lake Ontario (local navigation)	Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1					X	
IPZ-1.2		Sewer mainlines and connections	Sewage Works	669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679	The system is part of a wastewater collection facility that collects or transmits sewage containing human waste, but does not include a sewage storage tank or a designed bypass.	The system is designed to convey more than 10,000, but not more than 100,000 cubic metres of sewage per day.	1	2	1					X	
				1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	The discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.									

Bath IPZ: Summary of Parcels and with Identified Drinking Water Threats						Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1		IPZ 2		S	M	L	S	M	L	
Significant (S)	0		0		0			0			
Moderate (M)	5		29			34			64		
Low (L)	23		59				82			245	
Total Number of Parcels	28		88		116						
Total Number of Threats Present <sup>8</sup>	32		277					309			

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( Technical Rules: Assessment Report, 2009b).

<sup>1</sup> Reference Number and associated circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within Appendix 'F-3'.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix 'F-1'). Note: Duplicate threat numbers within same parcel indicate that this threat is occurring within the parcel in more than one area. Example: a parcel with more than one household represents the presence of more than one septic system or fuel tank within the parcel. Enumerating the number of septic systems and fuel tanks individually accounts for the individual risk associated with failure and/or leakage of individual septic systems and fuel tanks.

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

<sup>7</sup> Parcel ba.4 represents two parcels with two separate roll numbers in reality. For enumeration purposes, the parcel count reflects both respective parcels, therefore a count of two for each parcel. However, for the threat enumeration column, the counts are counted as if it were one whole parcel. The rationale to merge the parcels is due to the land activity (and existing infrastructure) is occurring on both parcels but not all the individual threat circumstances are occurring on each parcel. Therefore, in order to enumerate individual threats correctly and not to double-count or under-count threats, threats that are confirmed to be occurring on both parcels are repeated in the list.

<sup>8</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to corridors and sewer.

For example, one road in IPZ '1' would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel

Table 11 A.L. Dafoe (Napanee) Intake Protection Zone, Town of Greater Napanee - Threat Enumeration															
Land activities (referenced by circumstance) within the A.L. Dafoe (Napanee) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.															
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>					
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L			
IPZ-1	7	al.2	Waste	568 - 630	The system discharges to surface water and has as its primary function the collection, transmission or treatment of industrial sewage.	The system is part of a facility for which the NPRI Notice requires a person to report and the report must include information in relation to a substance listed in Group 1, 2, 3 or 4 of Part 1 of Schedule 1 of Part 2 of Schedule 1 of the notice.	1	1					X		
				1675 - 1686	The land disposal of industrial waste or commercial waste within the meaning of clause (c) of the definition of "land disposal" in section 1 of Regulation 347 (General - Waste Management) made under the Environmental Protection Act, is undertaken at the site.	The fill area is less than 1 hectare.							X		
				1880	PCB waste stored in drums above or at grade.	The PCB waste is stored at a PCB waste disposal site as described in Section 3 of Regulation 362 (Waste Management - PCBs), R.R.O. 1990, made under the <i>Environmental Protection Act</i> or was delivered to a site under written instructions of a Director in accordance with clause 8(a) of that regulation.							X		
				1884-1893	Hazardous waste or liquid industrial waste is stored at or above grade.	The fill area is less than 1 hectare.						X			
			Sewage works	1958	The system is a wastewater collection facility that collects or transmits sewage containing human waste, but does not include any part of the facility that is a sewage storage tank or works used to carry out a designed bypass.	A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.	2							X	
				832 - 856	The system is a wastewater treatment facility that discharges directly to land or surface water through a means other than a designed bypass.	The system is designed to discharge treated sanitary sewage at average daily rate that is more than 2,500 but not more than 17,500 cubic metres on an annual basis.								X	
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.	3						X		
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X			
			NASM	41, 42	The non-agricultural source material is applied to land located in a census consolidated subdivision that has a managed land percentage that is less than 40% and a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The total available nitrogen or phosphorus in all nutrients applied during the year to the land on which the material is applied exceeds the crop production requirements for crops on the land for that year by 15% or more.	6						X		
				1971	The application of any quantity of non-agricultural source material that contains materials from a meat plant or sewage works.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X			
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.	8						X		
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.	10						X		
			Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.	12							X	
				1435, 1436	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.	The quantity stored is less than 500 tonnes.	13							X	
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.	15							X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.							X		
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	16							X	
				1098 - 1112	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.							X		
			Solvents	1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.	17							X	
			IPZ-2	5.6	al.3	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		
1217, 1218	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.								4			X		
1962	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.										X			
Pesticides	1146 -1156	A pesticide is stored for retail sale or for use in extermination within the meaning of the Pesticides Act.				The total mass of all materials stored that contain a pesticide, in any form including liquid or solid, is more than 25 but not more than 250 kilograms.					11			X	
Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.				The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.						15			X
	1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.				The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.								X	
Solvents	1237-1258	The organic solvent is stored in a container at or above grade.				The quantity of organic solvent stored is more than 25, but not more than 250 litres.						17			X
IPZ - 1	7	al.4	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2					X		
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X		
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.	3						X		
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X			

**Table 11 A.L. Dafeo (Napanee) Intake Protection Zone, Town of Greater Napanee - Threat Enumeration**  
Land activities (referenced by circumstance) within the A.L. Dafeo (Napanee) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)										IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 5.6		S	M	L				
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>							
IPZ - 1	7	al.4 (continued)	ASM (continued)	1219, 1220	The agricultural source material is stored at or above grade on a temporary field nutrient storage site.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.		4				X				
				1964	The agricultural source material is stored at a temporary field nutrient storage site.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.						X				
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.		8					X			
				1283, 1284	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 250, but not more than 2,500 kilograms.		9						X		
			Pesticides	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.		10						X		
				Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.		15						X	
			1354, 1355, 1356, 1357, 1358		The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.									X	
			Solvents	1237-1258	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.		17							X	
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.		21							X	
				206, 207	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of less than 120 nutrient units per hectares of the area annually.									X	
204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.										X				
IPZ - 2	5.6	al.5	Sewage system	1957	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.	1	2					X			
			Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.		15						X		
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.								X		
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.		21							X	
				204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.									X	
IPZ-1	7	al.6 - al.11	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.	6	2					X			
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								X		
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.		15							X	
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.									X	
IPZ - 2	5.6	al.13	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.		1	2					X		
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.				3					X	
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.									X	
				1217, 1218	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.					4				X	
				1962	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.										X
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.					8					X
				1283, 1284	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 250, but not more than 2,500 kilograms.					9					X
			Pesticides	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.					10					X
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.					15					X

**Table 11 A.L. Dafoe (Napanee) Intake Protection Zone, Town of Greater Napanee - Threat Enumeration**  
Land activities (referenced by circumstance) within the A.L. Dafoe (Napanee) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L
IPZ - 2	5.6	al.13 (continued)	Fuel (continued)	1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.			15 (con'd)			X
			Solvents	1237-1258	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.			17			X
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.			21			X
				206, 207	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of less than 120 nutrient units per hectares of the area annually.						X
				204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.						X
IPZ - 2	5.6	al.14	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			15			X
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.						X
IPZ-1,2	7, 5.6	Bath Road / Highway 33 (Road - Expressway/ Highway)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1			X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1		X	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 liters.	1	local	1		X	
IPZ-1,2	7, 5.6	County Road 21 (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1			X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1			X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1		X	
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 liters.	1	local	1		X	
IPZ-2	5.6	(railway spurline)	Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local		X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local		X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local		X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 liters.			1	local		X
IPZ-1,2	7, 5.6	Lake Ontario (local navigation)	Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local			X	

A.L. Dafoe (Napanee) IPZ: Summary of Parcels and with Identified Drinking Water Threats						Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1		IPZ 2		S	M	L	S	M	L	
	Significant (S)	0	0	0							0
Moderate (M)	6	0	6	0					17		
Low (L)	14	7	14	7			21			49	
<b>Total Number of Parcels</b>	<b>20</b>	<b>7</b>	<b>20</b>	<b>7</b>	<b>27</b>			<b>66</b>			
<b>Total Number of Threats Present<sup>7</sup></b>	<b>46</b>		<b>20</b>					<b>66</b>			

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( Technical Rules: Assessment Report, 2009b).  
<sup>1</sup> Reference Number and associated Circumstances as detailed in the Tables of Drinking Water Threats (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within Appendix 'F-3'.  
<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.  
<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.  
<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from Clean Water Act (2006) - O. Reg 287/07 - 1.1(1) 1-21 (see Appendix 'F-1').  
<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).  
<sup>6</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.  
<sup>7</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to corridors. For example, one road in IPZ '1' would equal one threat count for road salt application even though it is not a separate property parcel. It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.



Table 12 Sandhurst Shores Intake Protection Zone (IPZ), Town of Greater Napanee - Threat Enumeration													
Land activities (referenced by circumstance) within the Sandhurst Shores surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.													
Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>			
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L	
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>								
IPZ-1	7	ss.6	ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.	1	3				X	
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X	
				23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.		8				X	
				77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.		10				X	
IPZ - 1	7	ss.7	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2					X
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X
			ASM	1217, 1218	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.		4				X	
				1962	Any portion of the agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.						X	
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.		15					X
				1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.							X
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.		21				X	
				206, 207	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of less than 120 nutrient units per hectares of the area annually.							X
				204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.					X		
IPZ - 1	7	ss.8	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2					X
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X
			ASM	1219, 1220	The agricultural source material is stored at or above grade on a temporary field nutrient storage site.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.		4				X	
				1964	The agricultural source material is stored at a temporary field nutrient storage site.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.						X	
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.		15					X
				1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.							X
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.		21				X	
				206, 207	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of less than 120 nutrient units per hectares of the area annually.							X
				204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.					X		
IPZ-1	7	ss.9	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.	1	2					X
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.		3				X	
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X	
				1219, 1220	The agricultural source material is stored at or above grade on a temporary field nutrient storage site.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.		4				X	
				1964	The agricultural source material is stored at a temporary field nutrient storage site.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.						X	





**Table 12 Sandhurst Shores Intake Protection Zone (IPZ), Town of Greater Napanee - Threat Enumeration**  
Land activities (referenced by circumstance) within the Sandhurst Shores surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>						
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 5.6		S	M	L				
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>							
IPZ-2	5.6	ss.44 & ss. 45	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			2	2			X			
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.				3			X			
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.								X		
				1219, 1220	The agricultural source material is stored at or above grade on a temporary field nutrient storage site.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.					4			X		
				1964	The agricultural source material is stored at a temporary field nutrient storage site.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.									X	
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.					8				X	
				1283, 1284	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 250, but not more than 2,500 kilograms.						9				X
			Pesticides	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.						10				X
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.						15				X
			Solvents	1237-1258	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 25, but not more than 250 litres.						17				X
			Livestock	204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.						21				X
				1945, 1946	The use of land as livestock grazing or pasturing land or outdoor confinement area or a farm-animal yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.										X
				206, 207	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of less than 120 nutrient units per hectares of the area annually.										X
IPZ-2	5.6	ss.46 & 47	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			2	2			X			
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.				3			X			
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.								X		
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.					8			X		
			Pesticides	55-65	The area of land to which the pesticide is applied is less than 1 hectare.	The application may result in the presence of one or more pesticides in groundwater or surface water.						10			X	
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.						15			X	
IPZ-2	5.6	ss.48 & 59	ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.			12	3			X			
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.							X			
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.					8		X			
			Pesticides	77-87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.						10		X		
IPZ-2	5.6	ss.60	ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.			1	3			X			
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.							X			
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and Phosphorus (total) in groundwater or surface water.					8		X			
			Pesticides	66-76	The area of land to which the pesticide is applied is at least 1 hectare but not more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.						10		X		

**Table 12 Sandhurst Shores Intake Protection Zone (IPZ), Town of Greater Napanee - Threat Enumeration**  
Land activities (referenced by circumstance) within the Sandhurst Shores surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>			
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Affected	PDWT	Affected	PDWT	S	M	L	
						Parcels <sup>3</sup>	No. <sup>4</sup>	Parcels <sup>3</sup>	No. <sup>4</sup>				
IPZ-2	5.6	ss. 61	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2			X
				1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.					X		
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15			X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.					X		
IPZ-2	5.6	ss. 62- ss.97	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			36	2			X
				Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but less than 2,500 litres.			15			X
IPZ-2	5.6	ss.98 - ss.100	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			3	2			X
				Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			15			X
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250 but less than 2,500 litres.					X		
IPZ-2	5.6	ss.101 - ss.159	Sewage Works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			59	2			X
IPZ-2	5.6	ss.160	NASM	41, 42	The non-agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage for the applicable area that is less than 40% and the livestock density map shows a livestock density for the applicable area that is sufficient to annually apply agricultural source material at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen or Phosphorus (total) in groundwater or surface water.			1	6			X
				1971	The application of any quantity of non-agricultural source material that contains materials from a meat plant or sewage works.	The application may result in the presence of one or more pathogens in groundwater or surface water.					X		
IPZ-1,2	7, 5.6	Apsley Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X
IPZ-2	5.6	Bathurst Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			
IPZ-1,2	7, 5.6	Elmwood Boulevard (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				
IPZ-1,2	7, 5.6	Highway 33 (Road - Expressway/ Highway)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1				X
			Transportation of a DNAPL	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1				X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 liters.	1	local	1				
IPZ-1,2	7, 5.6	Meadow Crescent (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				
IPZ-1,2	7, 5.6	Neilson Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				
IPZ-2	5.6	No 1 Road South (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			
IPZ-1,2	7, 5.6	Old Orchard Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				

**Table 12 Sandhurst Shores Intake Protection Zone (IPZ), Town of Greater Napanee - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Sandhurst Shores surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>		
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 7		Vuln Sc = 5.6		S	M	L
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>			
IPZ-2	5.6	Park Drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-2	5.6	Richmond Street (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-1,2	7, 5.6	Shore drive (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	1	12	1				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1				X
IPZ-2	5.6	Wright Place (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.			1	12			X
			Transportation of Fuel	n/a	The transportation of liquid fuel.			1	local			X
IPZ-1,2	7, 5.6	Lake Ontario (local navigation)	Transportation of Fuel	n/a	The transportation of liquid fuel.	1	local	1				X

Sandhurst Shores IPZ: Summary of Parcels and with Identified Drinking Water Threats						Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1		IPZ 2		S	M	L	S	M	L	
Significant (S)	0		0		0			0			
Moderate (M)	7		0			7			23		
Low (L)	49		130				179			321	
<b>Total Number of Parcels</b>	<b>56</b>		<b>130</b>		<b>186</b>						
<b>Total Number of Threats Present<sup>7</sup></b>	<b>103</b>		<b>241</b>					<b>344</b>			

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e); the number of locations where an activity that is a significant drinking water threat is being engaged in ( *Technical Rules: Assessment Report, 2009a*).

<sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within **Appendix 'F-3'**.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability.

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**).

<sup>5</sup> Note: Duplicate threat numbers within same parcel indicate that this threat is occurring within the parcel in more than one area. Example: a parcel with more than household representing the presence of more than one septic system or fuel tank within the parcel. Enumerating the number of septic systems and fuel tanks individually accounts for the individual risk associated with failure and/or leakage of individual septic systems and

<sup>6</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>7</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

<sup>8</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to corridors.

For example, one road in IPZ '1' would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.

**Table 13 Picton Intake Protection Zone (IPZ) 3b - Threat Enumeration**

Land activities (referenced by circumstance) within the Picton (3b) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		IPZ-3b <sup>7</sup> Vuln Sc = 6		Threat Class <sup>5</sup>					
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L			
IPZ- 3b	6	Sewage Works		713, 714, 715, 716, 717, 718	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	The system is a sewage works within the meaning of the Ontario Water Resources Act.					1	2			X		
				1957	The system requires or uses a holding tank for the retention of hauled sewage at the site where it is produced before its collection by a hauled sewage system.	A spill from the tank may result in the presence of one or more pathogens in groundwater or surface water.										X	
		Fuel		177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.							15			X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.											X
		DNAPLs		107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.							16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.											X
		Solvents		1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.							17			X	
IPZ- 3b	6	Sewage Works		695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.						5	2		X		
				1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.									X		
		Fuel		177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.							15			X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.										X	
		DNAPLs		107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.							16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.											X
		Solvents		1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.							17			X	
IPZ- 3b	6	Sewage Works		695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.						10+	2		X		
				1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system and its associated treatment unit and is a sewage system as defined in section 1 of O. Reg. 350/06 (Building Code) made under the Building Code Act, 1992 or a sewage works as defined in section 1 of the Ontario Water Resources Act.	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.									X		
		ASM		17, 18	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is more than 80%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.							3			X	
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.										X	
				1219, 1220	The agricultural source material is stored at or above grade on a temporary field nutrient storage site.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.								4			X
				1964	The agricultural source material is stored at a temporary field nutrient storage site.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.										X	
		Fertilizer		35, 36	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is more than 80%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.							8			X	
				1285, 1286	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 2,500 kilograms.								9			X
		Pesticides		77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.							10			X	
		Fuels		177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.							15			X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.										X	
		DNAPLs		107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.							16			X	
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.											X
Solvents		1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.							17			X			
Livestock		204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.							21			X			

**Table 13 Picton Intake Protection Zone (IPZ) 3b - Threat Enumeration**  
Land activities (referenced by circumstance) within the Picton (3b) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		IPZ-3b <sup>7</sup> Vuln Sc = 6		Threat Class <sup>5</sup>				
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L		
IPZ- 3b	6	(continued)	Livestock (continued)	1945	The use of land as livestock grazing or pasturing land for one or more animals.					10+ (cont'd)	21		X			
				210, 211	The use of land as an outdoor confinement area or a farm-animal yard.									X		
				1946	The use of land as an outdoor confinement area or a farm-animal yard for one or more animals.								X			
IPZ- 3b	6		Waste	1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674	The land disposal of municipal waste, within the meaning of clauses (a) and (b) of the definition "land disposal" in section 1 of Regulation 347 (General - Waste Management) made under the Environmental Protection Act, is undertaken at the site.									X		
IPZ- 3b	6		Fuels	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.					3	15				X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.									X		
				107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.							16		X		
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.								X			
				1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.								17		X	
IPZ- 3b	6		Fuels	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.					7	15				X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.									X		
				107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.							16		X		
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.								X			
				1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.								17		X	
IPZ- 3b	6		Fertilizer	1285, 1286	The commercial fertilizer is stored for retail sale or in relation to its application.					2	9				X	
				Fuels	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.							15		X	
					1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.									X	
					107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.								16		X
					1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.									X	
					1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.									17	
IPZ- 3b	6		Fuels	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.					1	15				X	
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.									X		
				107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.							16		X		
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.								X			
				1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.								17		X	
IPZ- 3b	6		Livestock	1946	The use of land as an outdoor confinement area or a farm-animal yard for one or more animals.					1	21		X			
				210, 211	The use of land as an outdoor confinement area or a farm-animal yard.									X		

**Table 13 Picton Intake Protection Zone (IPZ) 3b - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Picton (3b) surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		IPZ-3b <sup>7</sup> Vuln Sc = 6		Threat Class <sup>5</sup>					
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	S	M	L			
IPZ- 3b	6	(continued)	Fuel	177, 178, 179, 180, 181	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 2,500 litres.					1	15			X		
				1384, 1385, 1386, 1387, 1388	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 2,500 litres.										X	
			DNAPLs	107, 108, 109, 110, 111	The above grade handling of a DNAPL in relation to its storage.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.							16				X
				1098, 1099, 1100, 1101, 1102	The storage of a DNAPL at or above grade.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.											X
			Solvents	1261, 1262, 1263, 1264	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is more than 2,500 litres.							17				X

Picton 3b IPZ: Summary of Parcels and with Identified Drinking Water Threats						Total Number of Parcels			Total Number of Threats									
Threat Classification	IPZ 1, 2, 3a					IPZ 3b			S	M	L	S	M	L				
Significant (S)	Please refer to the Quinte Source Protection Region Drinking Water Threats Inventory (Approved Assessment Report, 2011)					0	0					0						
Moderate (M)						11					11					21		
Low (L)						24							24					151
<b>Total Number of Parcels</b>						<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>	<b>35</b>
<b>Total Number of Threats Present</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>	<b>172</b>					

**Note:** Data contained within this table provided to fulfill requirement 9(1)(e); the number of locations at which an activity that is a significant drinking water threat is being engaged in ( *Technical Rules: Assessment Report, 2009b*). All data contained within this table was obtained from preliminary watershed surveying within the Cataraqui Source Protection Region. Parcel numbers are estimated from initial surveys and anticipated not to be comprehensive.

<sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a)

<sup>2</sup> Circumstances listed may represent the more than one contaminant; note Reference Number.

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**).

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

<sup>7</sup> Not confirmed as parcels. Located outside of area where significant threats are possible.









**Table 14 Sydenham Intake Protection Zone (IPZ), South Frontenac Township - Threat Enumeration**  
Land activities (referenced by circumstance) within the Sydenham surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats. Sydenham represents the only inland intake in the Cataqui Source Protection Area.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>								
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L						
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>									
IPZ-1	9	xcg.6	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2				X						
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								15				
			1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.													
			157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.													
IPZ-1	9	xcg.7	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2				X						
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								15				
			157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.													
			1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.													
IPZ-1	9	xcg.8	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2				X						
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								11				
			1124-1134	A pesticide is stored for retail sale or for use in extermination within the meaning of the Pesticides Act.	The total mass of all materials stored that contain the pesticide, in any form including liquid or solid, is not more than 25 kilograms.													
			88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.	12												
			1435, 1436	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.	The quantity stored is less than 500 tonnes.	13												
			157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.	15												
IPZ-2	8.1	xcg.10	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X						
				695	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								12				
			88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.	13												
			1435, 1436	The storage of road salt in a salt dome or similar facility designed to protect the road salt from exposure to precipitation or runoff from precipitation or snow melt.	The quantity stored is less than 500 tonnes.	15												
			157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.													
			1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.													
IPZ-2	8.1	xcg.11	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system.	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X						
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.								15				
			157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.													
			1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.													
IPZ-2	8.1	syd.12	ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.			1	3		X						
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.								4				
				1217	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.												
				1962	Any portion of the agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.												
			23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.	8												

**Table 14 Sydenham Intake Protection Zone (IPZ), South Frontenac Township - Threat Enumeration**  
Land activities (referenced by circumstance) within the Sydenham surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats. Sydenham represents the only inland intake in the Catarqui Source Protection Area.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>				
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L		
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>					
IPZ - 2	8.1	syd.12 (continued)	Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.			1 (cont'd)	10	X			
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.				21	X			
				210, 211	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of more than 300 nutrient units per hectares of the area annually.						X		
				204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.						X		
IPZ-2	8.1	xcg.13	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X		
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X	
			Fuel	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			1	15			X	
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.							X	
IPZ-2	8.1	xcg.14	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X		
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X	
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			1	15			X	
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.							X	
IPZ - 2	8.1	syd.15	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge from the system may result in the presence of one or more pathogens in groundwater or surface water.			1	2		X		
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X	
			ASM	5, 6	The agricultural source material is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40%, and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen in groundwater or surface water.			1	3			X	
				1944	Agricultural source material is applied to land in any quantity.	The application may result in the presence of one or more pathogens in groundwater or surface water.						X		
				1217	The agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	The weight or volume of manure stored annually on a farm unit is sufficient to annually land apply agricultural source material at a rate that is more than 1.0 nutrient unit per acre of the farm units.					4		X	
				1962	Any portion of the agricultural source material is stored at or above grade in or on a permanent nutrient storage facility.	A spill of the material or runoff from an area where the material is stored may result in the presence of one or more pathogens in groundwater or surface water.						X		
			Fertilizer	23, 24	The commercial fertilizer is applied to land located in a vulnerable area, where the managed land map shows a managed land percentage that is less than 40% and the livestock density map shows a livestock density that is sufficient to annually generate nutrients at a rate that is more than 1.0 nutrient units per acre.	The application may result in the presence of Nitrogen and/or Phosphorus (total) in groundwater or surface water.			1	8			X	
				1283, 1284	The commercial fertilizer is stored for retail sale or in relation to its application.	The total mass of all materials stored that contain the commercial fertilizer, in any form including liquid or solid, is more than 250 but not more than 2,500 kilograms.					9			X
			Pesticide	77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87	The area of land to which the pesticide is applied is more than 10 hectares.	The application may result in the presence of one or more pesticides in groundwater or surface water.							X	
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.			1	15			X	
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.							X	
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.					15			X
				1359, 1360, 1361, 1362, 1363	The storage of liquid fuel in a tank at or below grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.								X
			Solvents	1225, 1226, 1227, 1228	The organic solvent is stored in a container at or above grade.	The quantity of organic solvent stored is not more than 25 litres.								X
			Livestock	1945, 1946	The use of land as livestock grazing or pasturing land and/or as an outdoor confinement area or a farm-yard for one or more animals.	The land use may result in the presence of one or more pathogens in groundwater or surface water.			1	21		X		
				210, 211	The use of land as an outdoor confinement area or a farm-animal yard.	The number of animals confined in the area at any time is sufficient to generate agricultural source material at a rate of more than 300 nutrient units per hectares of the area annually.							X	
204, 205	The use of land as livestock grazing or pasturing land.	The number of nutrient units generated in the farm unit divided by the number of acres of land that is used for livestock grazing or pasturing land is sufficient to generate nutrients at an annual rate that is more than 1 nutrient unit per acre.								X				

**Table 14 Sydenham Intake Protection Zone (IPZ), South Frontenac Township - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Sydenham surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats. Sydenham represents the only inland intake in the Cataraqi Source Protection Area.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>										
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L								
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels	PDWT No. <sup>4</sup>											
IPZ-1	9	xcg.16	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2				X								
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X							
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.							15			X				
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.											X			
IPZ-1	9	xcg.17	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2				X								
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X							
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.							15			X				
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.											X			
IPZ-1	9	xcg.18 & xcg.19	Pesticides	55	The area of land to which the pesticide is applied is less than 1 hectare.	The application may result in the presence of contaminant in ground or surface water.	2	10				X								
IPZ-1	9	syd.20 to syd.72	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	53	2				X								
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X							
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.							15			X				
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.											X			
IPZ-2	8.1	syd.73 to syd.134	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.			62	2		X								
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X							
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.							15			X				
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.											X			
IPZ-1	9	syd.135 & syd.136	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	2	2				X								
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X							
			Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Sodium & Chloride in groundwater or surface water.							12			X				
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.											15			X
1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.		X																
IPZ-1	9	syd.137	Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.	1	2				X								
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.							X							
			Sewage works	1956	The system is an earth pit privy, privy vault, cesspool, or a leaching bed system	A discharge may result in the presence of one or more pathogens in groundwater or surface water.							2			X				
				695, 696, 697, 698, 699, 700	The system is an earth pit privy, privy vault, greywater system, cesspool, or a leaching bed system and its associated treatment unit.	The system is subject to the Ontario Building Code Act, 1992.											X			
			Fuels	157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.							15			X				
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.											X			
				157, 158, 159, 160, 161	The above grade handling of liquid fuel in relation to its storage at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The quantity of liquid fuel stored is more than 250, but not more than 2,500 litres.											15			X
				1354, 1355, 1356, 1357, 1358	The storage of liquid fuel in a tank at or above grade at a facility as defined in section 1 of O. Reg. 213/01 (Fuel Oil) made under the Technical Standards and Safety Act, 2000 or a facility as defined in section 1 of O. Reg. 217/01 (Liquid Fuels) made under the Technical Standards and Safety Act, 2000, but not including a bulk plant.	The fuel is stored in a quantity that is more than 250, but not more than 2,500 litres.														



**Table 14 Sydenham Intake Protection Zone (IPZ), South Frontenac Township - Threat Enumeration**  
 Land activities (referenced by circumstance) within the Sydenham surface water IPZ, the number of parcels affected, and classification as significant (S), moderate (M) or low (L) drinking water threats. Sydenham represents the only inland intake in the Cataraqi Source Protection Area.

Prescribed Drinking Water Threat (PDWT)						IPZ-1		IPZ-2		Threat Class <sup>5</sup>				
Zone Description	VS	Threat ID	Threat <sup>6</sup>	Reference Number <sup>1</sup>	Circumstances <sup>2</sup>	Vuln Sc = 9		Vuln Sc = 8.1		S	M	L		
						Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>	Affected Parcels <sup>3</sup>	PDWT No. <sup>4</sup>					
IPZ-2	8.1	Cross Street (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12			X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local			X	
IPZ-1,2	9, 8.1	George Street (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X	
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.	1	local	1				X	
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.	1	local	1				X	
IPZ-1,2	9, 8.1	George Street (Road - Collector)	Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.	1	local	1				X	
IPZ-1	9	Fox Ridge Trail (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local					X	
IPZ-1,2	9, 8.1	Loughborough Memorial Park Lane (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X	
IPZ-1,2	9, 8.1	McCallum Lane (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X	
IPZ-2	8.1	Mill Street (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local				X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local				X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local				X
			Transportation of solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local				X
IPZ-1	9	Point Road (Road - Local/Street)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local					X	
IPZ-1	9	Portland Avenue - Bedford Road (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local					X	
IPZ-1	9	Retreat Lane (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.		local					X	
IPZ-2	8.1	Rutledge Road (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local				X
			Transportation of Pesticides	n/a	The transportation of pesticides.	The total mass of all materials transported that contain the pesticide, in any form including liquid or solid, is more than 2,500 kilograms.			1	local				X
			Transportation of DNAPLs	n/a	The transportation of a DNAPL.	A spill may result in the presence of one or more DNAPLs in groundwater or surface water.			1	local				X
			Transportation of Solvents	n/a	The organic solvent is transported in a container.	The quantity of organic solvent transported is more than 2,500 litres.			1	local				X
IPZ-1,2	9, 8.1	Sailors Cove (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X	
IPZ-2	8.1	Shallow Lane (Road - Collector)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.			1	12				X
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.			1	local				X
IPZ-1	9	Slumber Lane (Road - Collector)	Road Salt	90, 91	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is more than 1, but not more than 8 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12					X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local					X	
IPZ-1,2	9, 8.1	Wheatley Street (Road - Local/Street)	Road Salt	88, 89	The road salt is applied in an area where the percentage of total impervious surface area, as set out on a total impervious surface area map, is not more than 1 percent.	The application may result in the presence of Chloride or Sodium in groundwater or surface water.	1	12	1				X	
			Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 2,500 litres.	1	local	1				X	
IPZ-1,2	9, 8.1	Sydenham Lake (local navigation)	Transportation of Fuel	n/a	The transportation of liquid fuel.	The liquid fuel is transported in a quantity that is more than 250 litres, but not more than 2,500 litres.	1	local	1				X	

Sydenham IPZ: Summary of Parcels and with Identified Drinking Water Threats				Total Number of Parcels			Total Number of Threats		
Threat Classification	IPZ 1	IPZ 2	S	M	L	S	M	L	
Significant (S)	1	2	3			12			
Moderate (M)	89	79		168			253		
Low (L)	1	4			5			83	
<b>Total Number of Parcels</b>	<b>91</b>	<b>85</b>	<b>176</b>						
<b>Total Number of Threats Present<sup>7</sup></b>	<b>175</b>	<b>173</b>				<b>348</b>			

**Note:** Data contained within this table is provided to fulfill requirement 9(1)(e): the number of locations where an activity that is a significant drinking water threat is being engaged in ( *Technical Rules: Assessment Report*, Parcel Threat ID identifications indicated by a "xcg.#" are threat parcels that were enumerated by XCG Consultants Ltd. for the Sydenham Intake Protection Zone Study (see **Appendix 'L-12'**). Other Threat ID parcels indicated by a "syd.#" are threat parcels re-enumerated or enumerated by Cataraqui Region Conservation Authority staff.

<sup>1</sup> Reference Number and associated Circumstances as detailed in the *Tables of Drinking Water Threats* (MOE, 2009a). Locally approved threats (the transportation of specified substances) do not have a corresponding threat reference number. Please refer to the approval tables provided by the MOE within **Appendix 'F-3'**.

<sup>2</sup> Circumstances listed may represent more than one contaminant; note Reference Number. The ranking of significant, moderate or low is attributed based on the the contaminant that has the highest vulnerability score.

<sup>3</sup> Affected parcels represent the number of parcels on which a specific activity is being engaged in. Some parcels may have multiple threat activities.

<sup>4</sup> Number of the Prescribed Drinking Water Threat, as referenced from *Clean Water Act (2006)* - O. Reg 287/07 - 1.1(1) 1-21 (see **Appendix 'F-1'**). Note: Duplicate threat numbers within same parcel indicate that this threat is occurring within the parcel in more than one area. Example: a parcel with more than one household represents the presence of more than one septic system or fuel tank within the parcel. Enumerating the number of septic systems and fuel tanks individually accounts for the individual risk associated with failure and/or leakage of individual septic systems and fuel tanks.

<sup>5</sup> Only the highest ranked threat is counted per parcel (shaded **BOLD**). Classifications are: Significant (S), Moderate (M) or Low (L).

<sup>6</sup> Pesticide storage has not been enumerated unless confirmation of a licensed storage facility exists (as in many large-scale agricultural operations). Small and medium-scale operations generally use a licensed pesticide broker to apply pesticides to land. Therefore, for the purposes of this enumeration of threat activities related to pesticides, only those sites with confirmed storage facilities have been enumerated.

<sup>7</sup> The summary counts for total number of threats present includes threats occurring on the individual ID parcels as well as the threats associated to corridors. For example, one road in IPZ '1' would equal one threat count for road salt application even though it is not a separate property parcel.

It is not uncommon for a transportation corridor to span multiple areas, and therefore an additional "1" is present beside the local threat as well. Corridors (roads, railways, navigation channels) threats are counted individually; one parcel count for road salt, and another parcel count for each specified substance that is being transported. This is different in relation to threats counted for an individual property. The threats that occur on a property (parcel) would only receive one overall parcel count.













