

10.3 SEWAGE

Definition

Sewage is the establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage. Sewage includes drainage, storm water, commercial and industrial wastes, and other matters or substances defined in the *Ontario Water Resources Act, 1990*. Sewage systems include stormwater retention pond discharges, sewage treatment plant bypasses, septic systems that service individual properties and others as identified below.

Why is Sewage a Threat to Drinking Water Sources?

A number of chemicals and pathogens from sewage could make their way into drinking water sources. There are nine potential sub-categories of this threat, five of which have been identified as existing significant threats in the CTC:

- Septic systems (see circumstances #695-706, 1956)
- Septic system holding tanks (see circumstances #707-718, 1957)
- A storm water management facility designed to discharge storm water to land or surface water (see circumstances #277-504, 1949)
- Sanitary sewers and related pipes (see circumstances #631-694, 1958)
- Storage of sewage (e.g., sewage treatment plant storage tanks) (see circumstances #904-1097, 1960)

The remaining four sub-categories are:

- Combined sewer discharge from a stormwater outlet to surface water (see circumstances #212- 276, 1947)
- Industrial effluent discharge (see circumstances #505-630, 1950-1954)
- Sewage treatment plant bypass discharge to surface water (see circumstances #719-783, 1948)
- Sewage treatment plant effluent discharge (includes lagoons) (see circumstances #784-903, 1959)

Small septic systems (for single family homes) are regulated under the *Ontario Building Code Act, 1992*.

Multi-residential septic systems and large systems (greater than 10,000 litres per day (L/day)) are

regulated under the *Ontario Water Resources Act, 1990*. From the sub-threat activities mentioned above, the specific chemicals and pathogens that threaten drinking water sources include:

- Acetone
- Aluminum
- BTEX
- Cadmium
- Chloride
- Chromium
- Dichlorobenzene-1,4(para)
- Hexachlorobenzene
- Lead
- Mecoprop
- Mercury
- NDMA
- Nitrate
- Petroleum hydrocarbons
- Total phosphorus
- PAHs
- PCBs
- Sodium
- Trichloroethylene
- Vinyl chloride
- Pathogen

****Note:** Total phosphorus is not considered to be a threat for groundwater. It is a threat for surface water because excessive amounts of total phosphorus in surface water can result in eutrophication and toxic algae blooms.

See **Table 10-3** for when and where sewage may be a significant drinking water threat.

Note: to determine if a specific activity is a significant drinking water threat consult the *Tables of Drinking Water Threats* for the specific circumstances that must be met for the activity to be a threat. A number of these activities may also be significant drinking water threats anywhere within an Issue Contributing Area (ICA). If the activity meets the description in Column 2 of the *Tables of Drinking Water Threats* it is a significant drinking water threat irrespective of vulnerability score. The exception to this is for septic systems subject to the *Ontario Building Code Act, 1992* in an Issue Contributing Area for Sodium or Chloride.

Table 10-3: When/where sewage may be a significant drinking water threat

Prescribed Drinking Water Threat	Sewage Threat Sub-Category	Area and Vulnerability Score (VS)
The establishment, operation or maintenance of a system that collects, stores, transmits, treats or disposes of sewage	Septic system	<ul style="list-style-type: none"> • WHPA-A • WHPA-B (VS = 10) • WHPA-E (VS = 10) • Anywhere in an ICA for Nitrates, Pathogens, Sodium* or Chloride* *subject to the <i>Ontario Water Resources Act</i> only
	Septic system holding tank	<ul style="list-style-type: none"> • WHPA-A • WHPA-B (VS = 10) • WHPA-E (VS = 10) • Anywhere in an ICA for Nitrates, Pathogens, Sodium* or Chloride* *subject to the <i>Ontario Water Resources Act</i> only
	Combined sewer discharge from a stormwater outlet to surface water	<ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) • Anywhere in a WHPA-E in an ICA for Nitrates or Pathogens
	A storm water management facility designed to discharge storm water to land or surface water	<ul style="list-style-type: none"> • WHPA-A • WHPA-B (VS = 10) • WHPA-E (VS ≥ 8) • Anywhere in an ICA for Nitrates, Pathogens or Chloride
	Industrial effluent discharges	<ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) • Anywhere in a WHPA-E in an ICA for Nitrates, Pathogens or Chloride
	Sanitary sewers and related pipes	<ul style="list-style-type: none"> • WHPA-A • WHPA-B (VS = 10) • WHPA-E (VS = 10) • Anywhere in an ICA for Nitrates or Pathogens
	Sewage treatment plant bypass discharge to surface water	<ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) • Anywhere in an ICA for Nitrates or Pathogens
	Sewage treatment plant effluent discharges (Includes lagoons)	<ul style="list-style-type: none"> • WHPA-A • WHPA-B (VS = 10) • WHPA-E (VS ≥ 8) • Anywhere in an ICA for Nitrates or Pathogens
	Storage of sewage (e.g., treatment plant tanks)	<ul style="list-style-type: none"> • WHPA-A • WHPA-B (VS ≥ 8) • WHPA-C (VS = 8) • WHPA-E (VS ≥ 9) • Anywhere in an ICA for Nitrates or Pathogens

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-1	Septic Systems Governed under the <i>Building Code Act</i>	Municipality	E	<p>Specify Action</p> <p>A prioritized maintenance inspection program for septic systems, including holding tanks, governed under the <i>Building Code Act</i> in locations where the threat is, or would be significant, shall be implemented by the municipality or Principal Authority under the Ontario Building Code no later than January 2017. Inspection efforts should be prioritized based on systems that pose the greatest risk to sources of drinking water, such as the oldest systems or those in any of the areas of highest vulnerability:</p> <ul style="list-style-type: none"> • WHPA-A (existing, future); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS = 10) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (existing, future). 	See Maps 1.1 - 1.21	January 2017 (T-13)	N/A	MON-1
SWG-2	Septic Systems Governed under the <i>Building Code Act</i>	MOECC Municipality	K E	<p>Education and Outreach</p> <p>The Ministry of the Environment and Climate Change should develop and produce education and outreach materials which shall be delivered by local municipalities to landowners with septic systems, including holding tanks, governed under the <i>Building Code Act</i> within significant threat areas that explains the rationale for the maintenance inspection program and the benefits of regular maintenance and properly functioning septic systems where the threat is, or would be significant, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing, future); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS = 10) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (existing, future). 	See Map 1.1 - 1.21	Existing & Future: Implement within 2 years (T-10)	GEN-8	MON-4 MON-1

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-3	Septic Systems Governed under the <i>Building Code Act, 1992</i> as amended	Planning Approval Authority	A	<p>Land Use Planning</p> <p>Municipalities shall adopt Official Plan policies that require the enactment or amendment of Site Plan Control By-laws containing provisions for the siting and design of septic systems, including holding tanks, governed under the <i>Building Code Act, 1992</i> as amended, as follows:</p> <p>Site Plan Control is required for existing vacant lots of record to ensure that the siting and design of on-site septic systems, including the siting of future reserve bed locations, is optimized in relation to significant drinking water threats in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-B (VS = 10) (future); or • WHPA-E (VS = 10) (future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	<p>Future: Immediately (T-9)</p> <p>Amend OPs for conformity and ZBLs within 3 years of OP approval (T-8)</p>	N/A	MON-1
SWG-4	Septic Systems Governed under the <i>Building Code Act</i>	Planning Approval Authority	A	<p>Land Use Planning</p> <p>1) No new lots requiring septic systems, including holding tanks, governed under the <i>Building Code Act</i>, shall be created where the activity would be a significant drinking water threat in the following area:</p> <ul style="list-style-type: none"> • WHPA-A (future). <p>2) New lots requiring septic systems, including holding tanks, governed under the <i>Building Code Act</i> in an area where the activity would be a significant drinking water threat shall only be permitted if the municipality is satisfied that the activity will not become a significant drinking water threat. The hydrogeological assessment to determine appropriate development density shall be conducted by a professional licensed to carry out that work in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-B (VS = 10) (future); or • WHPA-E (VS = 10) (future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	<p>Future: Immediately (T-9)</p> <p>Amend OPs for conformity and ZBLs within 3 years of OP approval (T-8)</p>	N/A	MON-1

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-5	Septic Systems Governed under the <i>Building Code Act</i>	MMAH	K	<p>Specify Action</p> <p>The Ministry of Municipal Affairs and Housing is requested to amend the <i>Building Code Act</i> to permit municipalities to require higher standards for septic systems governed under the <i>Building Code Act</i> to deal with nitrate and pathogen threats where they would be a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-B (VS = 10) (future); or • WHPA-E (VS = 10) (future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-18)	N/A	MON-4
SWG-6	Septic Systems Governed under the <i>Building Code Act</i> and <i>Ontario Water Resources Act</i>	Municipality	E	<p>Specify Action</p> <p>Where municipal sanitary sewers and capacity are available, the municipality is encouraged to pass by-laws under the <i>Municipal Act</i> to require mandatory connections to the municipal sewer system for new development and existing septic systems, including holding tanks, governed under the <i>Building Code Act</i> and the <i>Ontario Water Resources Act</i>, and the decommissioning of existing systems, where they are a significant drinking water threat located in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing, future); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS = 10) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates, Pathogens, Sodium* or Chloride* (existing, future) (*not applicable to systems subject to <i>BCA</i>). 	See Maps 1.1 - 1.21	Existing & Future: Consider within 2 years (T-15)	N/A	MON-1

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-7	Septic Systems Governed under the <i>Ontario Water Resources Act</i>	Municipality SPA	E	<p>Specify Action</p> <p>The municipality in cooperation with local health units and Source Protection Authorities shall provide education and outreach materials for septic systems governed under the <i>Ontario Water Resources Act</i> (existing) to landowners in the entire Issue Contributing Area for Sodium or Chloride regarding:</p> <p>a) the use of more efficient water softeners to reduce the discharge of salt to the septic system; and</p> <p>b) promoting best management practices to ensure outdoor taps are not connected to the softened water line.</p>	See Maps 1.2 1.3 1.16	Existing: Implement within 2 years (T-10)	GEN-8	MON-1 MON-3
SWG-8	Septic Systems Governed under the <i>Ontario Water Resources Act</i>	MOECC	C	<p>Prescribed Instrument</p> <p>1) Septic systems with subsurface disposal of effluent, as regulated by the <i>Ontario Water Resources Act</i>, shall be prohibited where the activity would be a significant drinking water threat in the following area:</p> <ul style="list-style-type: none"> • WHPA-A (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-3)	SWG-9	MON-4
				<p>2) Where septic systems with subsurface disposal of effluent, as regulated by the <i>Ontario Water Resources Act</i>, are in an area where the activity is, or would be, a significant drinking water threat, the Environmental Compliance Approval that governs the activity shall be reviewed or established to ensure appropriate terms and conditions are included so that the activity ceases to be, or does not become, a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS = 10) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates, Pathogens, Sodium or Chloride (existing, future). 		Future: Immediately (T-3) Existing: 3 years (T-1)	GEN-3 SWG-9	MON-4

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-9	Septic Systems Governed under the <i>Ontario Water Resources Act</i>	Planning Approval Authority	A	<p>Land Use Planning</p> <p>1) New development dependent on septic systems with subsurface disposal of effluent, as regulated by the <i>Ontario Water Resources Act</i>, shall be prohibited where the activity would be a significant drinking water threat in the following area:</p> <ul style="list-style-type: none"> • WHPA-A (future) 	See Maps 1.1 - 1.21	Future: Immediately (T-9)	SWG-8	MON-1
				<p>2) New development dependent on septic systems with subsurface disposal of effluent, as regulated by the <i>Ontario Water Resources Act</i>, in an area where the activity would be a significant drinking water threat, shall only be permitted where it has been demonstrated by the proponent through an approved Environmental Assessment or similar planning process that the location for the septic system is the preferred alternative and the safety of the drinking water system has been assured in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-B (VS = 10) (future); or • WHPA-E (VS = 10) (future); or • the remainder of an Issue Contributing Area for Nitrates, Pathogens, Sodium or Chloride (future). 		Amend OPs for conformity and ZBLs within 3 years of OP approval (T-8)		
SWG-10	Septic Systems Governed under the <i>Ontario Water Resources Act</i>	MOECC	K	<p>Specify Action</p> <p>The Ministry of the Environment and Climate Change is requested to develop guidelines for managing significant drinking water threats from septic systems with subsurface disposal of effluent, as regulated by the <i>Ontario Water Resources Act</i>, for distribution to developers, municipalities and other interested or affected parties in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing, future); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS = 10) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates, Pathogens, Sodium or Chloride (existing, future). 	See Maps 1.1 - 1.21	Existing & Future: Consider within 2 years (T-15)	GEN-8	MON-4

APPROVED SOURCE PROTECTION PLAN: CTC Source Protection Region

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-11	A Storm Water Management Facility Designed to Discharge Storm Water to Land or Surface Water	MOECC	C	<p>Prescribed Instrument</p> <p>1) Discharge, including infiltration, from a stormwater management facility shall be prohibited into an area where the discharge would be a significant drinking water threat in the following area:</p> <ul style="list-style-type: none"> • WHPA-A (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-3)	SWG-12	MON-4
				<p>2) Where the discharge from a stormwater management facility is into an area where the activity is, or would be, a significant drinking water threat, the Environmental Compliance Approval that governs the activity shall be reviewed or established to ensure appropriate terms and conditions are included so that the activity ceases to be, or does not become, a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS ≥ 8) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates, Pathogens or Chloride (existing, future). <p>Not limiting any other conditions to be included in the Environmental Compliance Approval, the Issuing Director should include the following conditions, where possible:</p> <ul style="list-style-type: none"> • no stormwater is discharged from the pond into a WHPA-E where it would be classified as a significant drinking water threat; • existing infiltration ponds are lined to prevent infiltration of contaminants; and • in an Issue Contributing Area for Chloride, require actions to reduce salt loading into the pond from upstream lands where the application of road salt occurs. 		Future: Immediately (T-3) Existing: 3 years (T-1)	GEN-3 SWG-12	MON-4

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-12	A Storm Water Management Facility Designed to Discharge Storm Water to Land or Surface Water	Planning Approval Authority	A	<p>Land Use Planning</p> <p>1) The use of land for the establishment of a new stormwater management facility shall be prohibited where the discharge (including infiltration) of stormwater would be into a significant threat area in:</p> <ul style="list-style-type: none"> • WHPA-A (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-9)	SWG-11	MON-1
				<p>2) The use of land for the discharge from a stormwater management facility into an area where the activity would be a significant drinking water threat shall only be permitted where it has been demonstrated by the proponent through an approved Environmental Assessment or similar planning process that the location of discharge from a stormwater retention pond is the preferred alternative and the safety of the drinking water system has been assured in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-B (VS = 10) (future); or • WHPA-E (VS ≥ 8) (future); or • the remainder of an Issue Contributing Area for Nitrates, Pathogens or Chloride (future). 				

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Policies	Monitoring Policy
SWG-13	Sanitary Sewers and Related Pipes	MOECC	C	<p>Prescribed Instrument</p> <p>Where sanitary sewers and related pipes are in an area where the activity is, or would be, a significant drinking water threat, the Environmental Compliance Approval that governs the activity shall be reviewed or established to ensure appropriate terms and conditions are included so that the activity ceases to be, or does not become, a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing, future); or • WHPA-B (VS = 10) (existing, future); or • WHPA-E (VS = 10) (existing, future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (existing, future). <p>Not limiting any other conditions to be included in the Environmental Compliance Approval, the Issuing Director should include the following conditions, where possible:</p> <ul style="list-style-type: none"> • requiring higher construction standards; and • inspections by the owner for leaks. 	See Maps 1.1 - 1.21	<p>Future: Immediately (T-3)</p> <p>Existing: 3 years (T-1)</p>	GEN-3 SWG-14	MON-4
SWG-14	Sanitary Sewers and Related Pipes	Planning Approval Authority	A	<p>Land Use Planning</p> <p>New development dependent on sanitary sewers and related pipes, in an area where the activity would be a significant drinking water threat, shall only be permitted where it has been demonstrated by the proponent through an approved Environmental Assessment or similar planning process that the location for the sanitary sewer and related pipes is the preferred alternative and the safety of the drinking water system has been assured in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-B (VS = 10) (future); or • WHPA-E (VS = 10) (future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	<p>Future: Immediately (T-9)</p> <p>Amend OPs for conformity and ZBLs within 3 years of OP approval (T-8)</p>	SWG-13	MON-1

APPROVED SOURCE PROTECTION PLAN: CTC Source Protection Region

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Polices	Monitoring Policy
SWG-15	Storage of Sewage	MOECC	C	<p>Prescribed Instrument</p> <p>1) The storage of sewage shall be prohibited where the activity would be a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-E (VS ≥ 9) (future); or • WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-3)	SWG-16	MON-4
				<p>2) Where facilities for the storage of sewage are in an area where the activity is, or would be, a significant drinking water threat, the Environmental Compliance Approval that governs the activity shall be reviewed or established to ensure appropriate terms and conditions are included so that the activity ceases to be, or does not become, a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing); or • WHPA-B (VS ≥ 8) (existing, future); or • WHPA-C (VS = 8) (existing, future); or • WHPA-E (VS ≥ 9) (existing); or • WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (existing); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (existing, future). 		Future: Immediately (T-3) Existing: 3 years (T-1)	GEN-3 SWG-16	MON-4
SWG-16	Storage of Sewage	Planning Approval Authority	A	<p>Land Use Planning</p> <p>1) The use of land for the establishment of facilities for the storage of sewage shall be prohibited where the activity would be a significant drinking water threat in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-E (VS ≥ 9) (future); or • WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-9)	SWG-15	MON-1
				<p>2) The use of land for the establishment of facilities for the storage of sewage, in an area where the activity would be a significant drinking water threat, shall only be permitted where it has been demonstrated by the proponent through an approved Environmental Assessment or similar planning process that the location for the storage of sewage is the preferred alternative and the safety of the drinking water system has been assured in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-B (VS ≥ 8) (future); or • WHPA-C (VS = 8) (future); or • the remainder of an Issue Contributing Area for Nitrates or Pathogens (future). 		Amend OPs for conformity and ZBLs within 3 years of OP approval (T-8)		

APPROVED SOURCE PROTECTION PLAN: CTC Source Protection Region

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Polices	Monitoring Policy
SWG-17	Combined Sewer Discharge from a Storm-water Outlet to Surface Water	MOECC	C	<p>Prescribed Instrument</p> <p>1) Future sewage works shall be prohibited where the establishment, operation and maintenance of sewage works would be a significant drinking water threat, where the sewage works discharge is to surface water from:</p> <p>a) Combined sewer discharge from a stormwater outlet to surface water; and</p> <p>b) Sewage treatment plant bypass discharge to surface water, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) (future); or • In any WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (future). <p>c) Industrial effluent discharges, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) (future); or • In any WHPA-E in an Issue Contributing Area for Nitrates, Pathogens or Chloride (future). <p>d) Sewage treatment plant effluent discharges (includes lagoons), in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-B (VS = 10) (future); or • WHPA-E (VS ≥ 8) (future); or • In any WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	Future: Immediately (T-3)	SWG-18	MON-4
	<p>Industrial Effluent Discharges</p> <p>Sewage Treatment Plant Effluent Discharges (Includes Lagoons)</p>			<p>2) Where sewage works are in an area where the activity is a significant drinking water threat, the Environmental Compliance Approval that governs the activity shall be reviewed to ensure appropriate terms and conditions are included so that the activity ceases to be a significant drinking water threat, where the sewage works discharge is to surface water from:</p> <p>a) Combined sewer discharge from a stormwater outlet to surface water; and</p> <p>b) Sewage treatment plant bypass discharge to surface water, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) (existing); or • In any WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (existing). <p>c) Industrial effluent discharges, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) (existing); or • In any WHPA-E in an Issue Contributing Area for Nitrates, Pathogens or Chloride (existing). <p>d) Sewage treatment plant effluent discharges (includes lagoons), in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (existing); or • WHPA-B (VS = 10) (existing); or • WHPA-E (VS ≥ 8) (existing); or • In any WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (existing). 		Existing: 3 years (T-1)	GEN-3	MON-4

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Polices	Monitoring Policy
SWG-18	Combined Sewer Discharge from a Stormwater Outlet to Surface Water	Planning Approval Authority	A	<p>Land Use Planning</p> <p>Development dependent on the establishment of sewage works shall be prohibited where sewage works would be a significant drinking water threat where the sewage works discharge is to surface water from:</p> <p>a) Combined sewer discharge from a stormwater outlet to surface water; and</p> <p>b) Sewage treatment plant bypass discharge to surface water, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) (future); or • In any WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (future). <p>c) Industrial effluent discharges, in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-E (VS ≥ 8) (future); or • In any WHPA-E in an Issue Contributing Area for Nitrates, Pathogens or Chloride (future). <p>d) Sewage treatment plant effluent discharges (includes lagoons), in any of the following areas:</p> <ul style="list-style-type: none"> • WHPA-A (future); or • WHPA-B (VS = 10) (future); or • WHPA-E (VS ≥ 8) (future); or • In any WHPA-E in an Issue Contributing Area for Nitrates or Pathogens (future). 	See Maps 1.1 - 1.21	<p>Future: Immediately (T-9)</p> <p>Amend OPs for conformity and ZBLs within 3 years of OP approval (T-8)</p>	SWG-17	MON-1
	Sewage Treatment Plant Bypass Discharge to Surface Water							
	Industrial Effluent Discharges							
	Sewage Treatment Plant Effluent Discharges (Includes Lagoons)							

APPROVED SOURCE PROTECTION PLAN: CTC Source Protection Region

Policy ID	Threat Description	Implementing Body	Legal Effect	Policy	Where Policy Applies	When Policy Applies	Related Polices	Monitoring Policy
SWG-19	Combined Sewer Discharge from a Stormwater Outlet to Surface Water	Town of Orangeville CVSPA	E	<p>Research</p> <p>The Town of Orangeville shall undertake research to determine the extent to which the sodium and chloride loading from the Town’s Water Pollution Control Plant (WPCP) outfall into WHPA-E for Well 10 influences the rising sodium and chloride levels measured at this well and report back to the Credit Valley Source Protection Authority (CVSPA) within 2 years from the date the Source Protection Plan takes effect.</p>	See Map 1.3	See Policy	SWG-17 SWG-18	MON-1 MON-3
	Sewage Treatment Plant Bypass Discharge to Surface Water			<p>The CVSPA in partnership with the Town of Orangeville shall provide the report along with recommendations to the CTC Source Protection Committee to determine whether to make a formal request to the Director pursuant to section 119 of the Technical Rules: Assessment Report under the <i>Clean Water Act, 2006</i> dated November 2009 to add this WPCP outfall as a Local Threat. If the WPCP outfall is added as a Local Threat then policies SWG-17 and SWG-18 shall apply.</p>				
	Sewage Treatment Plant Effluent Discharges (Includes Lagoons)							