

Appendix E

Vulnerable Area Risk Assessment Table and Source Water Protection Land Use Categories

Designated Vulnerable Area										
Land Use/Activity	WHPA A V10	WHPA B V10	WHPA B V8	WHPA B V6	WHPA C V8	WHPA C V6	WHPA C V2 or V4	WHPA D V 2,4,6	Microbial Risk Management Zones	IPZ 1
Category ‘A’	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Category ‘B’:										
1) Located inside Built-Up Area	NP	SR	SR	SR	SR	SR	SR	P	NP	NP
2) Located outside Built-Up Area	NP	NP	NP	NP	NP	NP	NP	P	NP	NP
Category ‘C’										
1) Located inside Built-Up Area	NP	SR	SR	SR	SR	SR	SR	P	NP	NP
2) Located outside Built-Up Area	NP	NP	NP	NP	NP	NP	NP	P	NP	NP
<i>Employment area</i> uses proposing direct infiltration of stormwater run-off using dry wells, enhanced recharge, including human engineered artificial recharge measures.	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
<i>Mineral Aggregate Operations</i>	NP	NP	NP	NP	SR	SR	SR	SR	NP	NP

Land Use/Activity	Designated Vulnerable Area									
	WHPA A V10	WHPA B V10	WHPA B V8	WHPA B V6	WHPA C V8	WHPA C V6	WHPA C V2 or V4	WHPA D V 2,4,6	Microbial Risk Management Zones	IPZ 1
Wayside Pits and Quarries	NP	NP	NP	NP	SR	SR	SR	SR	NP	NP
Underground Parking	NP	SR	SR	SR	P	P	P	P	SR	NP
Below-grade construction excavations (greater than 3 metres)	NP	SR	SR	SR	SR	SR	SR	P	SR	NP

[illegible]

Land Use/Activity	Designated Vulnerable Area										
	WHPA A V10	WHPA B V10	WHPA B V8	WHPA B V6	WHPA C V8	WHPA C V6	WHPA C V2 or V4	WHPA D V 2,4,6	Microbial Risk Management Zones	IPZ 1	IPZ 2
<i>Development applications or site alterations requiring a temporary water taking of greater than 50,000 and less than 400,000 litres/day</i>	NP	SR	P	P	P	P	P	P	SR	P	P
<i>Development applications or site alterations requiring a temporary water taking of greater than 400,000 litres/day</i>	NP	SR	SR	SR	SR	SR	SR	SR	SR	SR	SR
Plans of Subdivision	NP	SR	SR	SR	SR	SR	SR	SR	SR	SR	P
Vacant Land Condominiums	NP	SR	SR	SR	SR	SR	SR	SR	SR	SR	P
New Individual Wastewater Treatment Systems	NP	NP	SR	SR	SR	P	P	P	NP	NP	SR
Pipelines/Sewers	NP	SR	SR	SR	SR	P	P	P	NP	NP	SR
Stormwater management facilities and other ponds	NP	SR	SR	SR	SR	SR	SR	SR	NP	NP	SR

Footnotes

¹ No **Geothermal** Energy Systems are permitted on or **adjacent** to any site with known contamination, in accordance with the Drinking Source Protection policies of this Plan.

Source Water Protection Land Use Categories

Category ‘A’
<ul style="list-style-type: none">Waste treatment and disposal facilities, including lagoons, landfills, communal/municipal sewage treatment facilities, and lands used for the receipt, storage, or disposal of hauled sewage, including large sewage vaults at sewage pumping stations, but not including facilities regulated under the <u>Nutrient Management Act</u>.
<ul style="list-style-type: none">Salvage yards, including automobile wrecking yards or premises
<ul style="list-style-type: none">Bulk storage of hazardous chemicals and hazardous substances (as listed in O.Reg. 347 under the <u>Environmental Protection Act</u>), including bulk storage of oil, gasoline or petroleum products, and including transportation terminals for these substances/chemicals (including truck/trailer/container parking, washing or cleaning depots)
Category ‘B’
<ul style="list-style-type: none">Bulk storage of road salt and snow disposal sites
<ul style="list-style-type: none">Primary metal manufacturing, including iron and steel mills and ferro-alloy manufacturing; steel product manufacturing from purchased steel; alumina and aluminum production and processing; non-ferrous metal production and processing; and foundries
<ul style="list-style-type: none">Manufacturing of fabricated metal products, including manufacturing of unfinished metal products and metal finishing operations
<ul style="list-style-type: none">Manufacturing and assembly of transportation equipment, including motor vehicles and parts, aerospace products and parts, rail cars, ships and boats
<ul style="list-style-type: none">Manufacturing of machinery, including agricultural, commercial, industrial, and other machinery

<ul style="list-style-type: none">▪ Chemical manufacturing including chemicals; resins; fertilizers, pesticides and other agricultural chemicals; pharmaceutical and medicines; paint, coating and adhesives; inks and other chemicals but excluding soap and cleaning compound manufacturing. Including manufacturing, packaging, repackaging, and bottling. Excludes uses involving bulk storage of hazardous materials which are included under Category ‘A’
<ul style="list-style-type: none">▪ Manufacturing of petroleum and coal products, including manufacturing of asphalt materials. Excludes uses involving bulk storage of hazardous materials which are included under Category ‘A’
<ul style="list-style-type: none">▪ Manufacturing of electronic components such as semiconductors, printed circuit boards, and cathode ray tubes
<ul style="list-style-type: none">▪ Manufacturing of electrical equipment, appliances and components
<ul style="list-style-type: none">• Commercial or industrial dry cleaning of textiles and textile products, excluding depots not performing on-site dry cleaning
<ul style="list-style-type: none">• Manufacturing of leather and allied products including footwear
<ul style="list-style-type: none">• Wood and wood product preservation and treatment
<ul style="list-style-type: none">• Gasoline stations and other retail establishments with gasoline sales
<ul style="list-style-type: none">• Wholesale/distributing of cleaning products, pesticides, herbicides, fungicides and chemicals
Category ‘C’
<ul style="list-style-type: none">• Manufacturing of rubber products
<ul style="list-style-type: none">• Manufacturing of soap, cleaning compounds and toilet preparations
<ul style="list-style-type: none">• Textile and fabric finishing and fabric coating
<ul style="list-style-type: none">• Manufacturing of plastic products

<ul style="list-style-type: none">• Manufacturing of wood products including wood furniture, and excluding wood preservation
<ul style="list-style-type: none">• Manufacturing of glass and glass products
<ul style="list-style-type: none">• Manufacturing of paper and paper products including newsprint and boxes
<ul style="list-style-type: none">• Printing and related support activities, excluding business support services such as photocopy services
<ul style="list-style-type: none">• Repair and Maintenance of automobiles and automotive machinery, electronic equipment, industrial and commercial machinery, and personal and household goods repair
<ul style="list-style-type: none">• Golf courses
<ul style="list-style-type: none">• Airports, train and public transit terminals, except terminals with no fuel storage or transfer of shipped goods or materials
<ul style="list-style-type: none">• Medical, health and other laboratories (other than clinics generally associated with commercial plazas)
<ul style="list-style-type: none">• Miscellaneous manufacturing not included elsewhere, including jewellery, silverware, medical equipment and signs
<ul style="list-style-type: none">• Recycling, recovery, or remanufacturing of materials including the collection, processing, manufacturing, or reuse of post-consumer or post-industrial materials, not including recycling or disposal of hazardous materials, and not including salvage yards or facilities with outdoor operations which are Category ‘A’ uses