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MUNICIPAL WATER AND WASTEWATER TREATMENT WORKS IN ONTARIO



DEC. 31, 1981

Ministry of the Environment

Hon. Keith C. Norton, Q. C.,
Minister

G. J. M. Raymond,
Deputy Minister

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1981

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Ministry
of the
Environment
Ontario

Municipal

Water and Wastewater Treatment Works in Ontario
Dec. 31, 1981

prepared by: Management Information Group
Municipal and Private Section
Pollution Control Branch

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FOREWORD

MUNICIPAL WASTEWATER TREATMENT SYSTEMS

At the end of 1981 the design capacity of the major municipal wastewater treatment plants in Ontario was 1,275 million imperial gallons per day (MIGD) or 5,799 thousands of cubic meters ($1000M^3$). This represents a net increase of 132 (MIGD) or 600 ($1000M^3$) from 1979. This increase takes into consideration the re-rating of capacities, the additional capacity for new and expanded plants and the loss of capacity from the phasing out of certain works.

The corresponding number of municipal wastewater treatment works in 1981 was 379 which amounts to a net increase of 20 plants from 1979. This increase is attributed to 30 new plants being brought into operation and 10 being phased out.

MUNICIPAL WATER SUPPLY SYSTEMS

The design capacity of the major municipal water supply facilities in Ontario in 1981 was 2,118 (MIGD) or 9,629 ($1000M^3$) which represents a net increase of 146 (MIGD) or 662 ($1000M^3$) from 1979. This increase takes into consideration the re-rating of capacities, the additional capacity from new and expanded plants and the loss of capacity from the phasing out of certain works. The corresponding number of municipal water works in 1981 was 443 which amounts to a net increase of 17 plants from 1979. This increase is the result of 17 new water supplies being brought into operation and none being phased out.

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INTRODUCTION

The Ministry of the Environment is concerned with the protection and enhancement of the natural environment. For example, the release of untreated sanitary wastes to a watercourse, particularly in the immediate discharge area, renders the watercourse unusable for practically all purposes. This condition creates a threat to public health and is disruptive to plant and animal life cycles; therefore, the adequate treatment of sanitary wastes to produce a satisfactory effluent for discharge to a watercourse is a major concern of this Ministry.

When a body of water is needed for the assimilation and dilution of treated wastes then consideration must be given to all of the other uses of water, such as public, agricultural and industrial water supply, recreation, aesthetic enjoyment and the propagation of fish and wildlife. It is evident that Ontario's water resources must meet many needs and in order to assist with the administration of these needs, the Ministry of the Environment has produced a publication entitled "Water Management" which outlines 'goals, policies, objectives and implementation procedures of the Ministry of the Environment', necessary to ensure the sound management of wastes and water across the province. Copies may be obtained from the Water Resources Branch, 1 St. Clair Ave. West (Telephone: 965-6954). In addition, criteria for drinking water is outlined in a booklet entitled, "Drinking Water Objectives", which is available from this Ministry's Information Services Branch at 135 St. Clair Ave. West (Telephone: 965-7117). Both of the above mentioned publications may be obtained from the Publications Centre, Ministry of Government Services, 880 Bay Street, 5th Floor, Toronto.

With regard to the meeting of these goals and objectives, the Ministry inspects and regulates all communal water and wastewater facilities, and monitors the performance of the treatment plants and their effluent qualities with routine and special sampling programs. The administration of these services and programs is carried out on a regional basis. To complement the sampling programs and the various water quality management programs, the Municipal and Private Section of the Pollution Control Branch, in co-operation with our Regional offices, has produced this publication from its EDP system to provide a comprehensive listing of all major Municipal wastewater and water treatment facilities operating in Ontario.

It should be pointed out that this publication lists only communal water and wastewater systems serving municipalities. Private, institutional and federal water and wastewater facilities are to be added to future publications.

This publication has two major parts. PART I lists the municipal wastewater treatment works and PART II lists the municipal water works facilities. Each part begins with a brief description of the various treatment methods which is followed by a summary of the existing treatment types and their hydraulic capacities for the entire province. This is followed by a complete listing of the works.

Since the delivery of programs and services by this Ministry is carried out on a regional basis, it is therefore, logical to group these treatment works under the Ministry's six regions. Accordingly, each one of our regions is first defined by means of a map page and then all treatment works for that particular region are listed alphabetically by municipality. An additional list of the plants which are located in each of the larger or regional municipalities has been prepared on green paper.

Very large systems, which serve more than one municipality, are shown at the end of each region's data on pink paper and the definition of these, 'AREA SYSTEMS' is described below.

AREA-SYSTEMS - "Area Wastewater Treatment Systems" and "Area Water Supply Systems"

When a municipality experiences sustained growth, eventually the serviced area of its treatment facility extends beyond its municipal boundaries. Once this condition occurs to the point where it becomes necessary to size the treatment works and major service mains to accomodate a much larger area, the system is, for the purposes of this publication, defined as an "Area Wastewater Treatment System", or an "Area Water Supply System".

MUNICIPAL WASTEWATER

PART -- I

1981

There are many types of wastewater treatment processes for sanitary wastes but the major treatment methods are variations of the principles which nature uses to purify a river or other body of water. Basically, the more essential factors such as sedimentation and the biological breakdown of wastes are speeded up in the treatment plant, with the end result being a quality product which places a minimum amount of strain on the environment. Recently, a chemical method of treatment to reduce the phosphorus content of the effluent has been adapted to the various treatment types and this is seen to be a key factor in controlling nuisance algae in a watercourse.

At present, three basic stages or major treatment methods, are employed in Ontario and these may be categorized as "primary", "secondary" and "tertiary" treatment. In the primary stage, solids are allowed to settle and are removed as sludge from the wastewater. The secondary stage uses biological processes to purify the wastewater even further. Tertiary processes further reduce impurities and are installed at specified locations to meet more stringent receiving water quality requirements.

It is important to note that over 78%, of Ontario's sewered municipal wastewaters now receive secondary treatment or better.

The efficiency of all treatment whether primary, secondary or tertiary are generally rated in terms of the percentage removal of Biochemical Oxygen Demand (BOD) and the percentage removal of Suspended Solids (SS). BOD is simply the amount of oxygen uptake by bacteria to decompose the wastes and 'SS' are the organic and inorganic substances suspended in the wastewater.

1. PRIMARY TREATMENT

Wastes entering a plant for treatment, normally pass through a screen to remove certain items such as rags or sticks etc. which may clog pumps or pipes. After screening, the wastes are directed into a grit chamber where sand and small stones etc., are allowed to settle. With the grit removed, the mechanics of settling are further employed to remove the organic and inorganic suspended solids in a primary sedimentation tank or clarifier. The material (sludge) which has finally settled is removed to a digester or other treatment facility where it is suitably stabilized prior to final disposal. Primary treatment generally removes 40 to 60 percent of the suspended solids and in so doing it achieves 30 to 50 percent reduction of BOD. To complete primary treatment, the effluent from the clarifier is usually chlorinated before being discharged to a receiving stream, river or lake. Chlorination reduces the number of disease causing bacteria. The effluent produced from primary treatment is of a lower standard of quality than is achieved in secondary treatment; consequently, this form of treatment is used only when it will meet the water quality requirements of the receiving body of water.

2. SECONDARY TREATMENT

The secondary stage of treatment removes up to 90% of the BOD through the action of bacteria and is commonly referred to as biological treatment. The term biological refers to the micro-organisms present in the wastewater and these are utilized to break down the organic matter with the end result being a settleable material (sludge), which may be removed, and a clear liquid effluent.

There are various forms of secondary treatment but the 'activated sludge process' is by far the most popular method used today. Other forms of secondary treatment such as lagoons and trickling filters are also being used in Ontario but to a lesser extent.

2.1 ACTIVATED SLUDGE PROCESS

The activated sludge process reduces the organic content of the wastes in as short a time as possible by efficiently maintaining the biological activity on the incoming wastes. This is done by introducing a highly developed bacterial community, 'activated sludge', to the new wastes as soon as possible, usually at the agitation and aeration sections. The efficiency of this process is ensured by providing a suitable environment for the micro-organisms, which means, supplying optimum amounts of food in the form of wastes, oxygen through aeration and a temperature high enough to maintain the desired growth of the microbes.

The following treatment types, are modifications of the activated sludge process.

a) Conventional Secondary (Conventional Activated Sludge Process)

In this process, the effluent from the primary treatment stage is conveyed to an aeration section where it is thoroughly mixed by the introduction of air for approximately 6 to 8 hours. The air provides sufficient oxygen and contact through agitation with the new wastes to ensure that an efficient decomposition of the wastes occurs. An optimum balance between the incoming food, (primary effluent) and the population of the mixed biological community is maintained by adding a portion of the activated sludge to the beginning of the aeration section. Excess activated sludge together with some liquids are directed to the digesters where they receive further treatment. A clear high quality effluent is produced and the removal of BOD and suspended solids ranges from 90 to 95 percent.

b) High Rate

The high rate modification was developed by overloading the conventionally designed activated sludge plants. The organic load in the aeration sections is the highest of any of the other variations of the activated sludge process and the aeration time is proportionately shorter (1 to 3 hours). Excess activated sludge and some liquids are placed in a digester where they are stabilized before final disposal. A higher volume of wastes may be handled in a shorter period of time, which makes for a more economical operation. A primary treatment section may or may not be present, and this method is generally used where industrial wastes are encountered.

The high rate type of treatment is reported to have a removal rate for BOD and suspended solids in the 80 to 85 percent range.

c) Extended Aeration

The incoming wastes are immediately placed in an aeration section without primary settling and a longer aeration time is employed usually 18 to 24 hours. Due to the long aeration period a more complete decomposition or oxidation of the wastes occurs.

As with the conventional secondary, a high level of biological activity is maintained throughout the aeration tank by returning some of the activated sludge to the raw sewage influent. Excess activated sludge together with some liquids are placed in a holding tank or sometimes a digester prior to final disposal. The reduction in BOD is usually in excess of 90%.

d) Contact Stabilization

This modification provides a means of varying the contact time between the incoming wastes and the activated sludge. The initial operation is done in a small chamber called a contact aeration tank and usually lasts for 1 or 2 hours. After this short aeration period the wastes undergo settling and the resulting sludge is re-aerated for a further 2 to 6 hours. The total aeration time of the sludge ranges from 3 to 8 hours which allows for the production of the activated sludge required in the contact aeration tank. Excess activated sludge together with some liquids are placed in a holding tank or sometimes a digester prior to final disposal.

The removal of suspended solids and BOD is similar to the conventional secondary method.

e) Oxidation Ditch

An oxidation ditch is a retention channel, usually constructed in the shape of an oval race track which is equipped with a rotary aerating device which circulates the wastewater around the channel where the activated sludge process is employed. After the required retention time the treated wastewater is drawn off as new wastes are added, and placed in a settling tank where the sludge is collected and then either returned to the ditch or removed for final disposal. The effluent from the settling tank is clear and of good quality. The removal of BOD and suspended solids ranges from 85 to 90 percent. This process is similar to extended aeration and is usually used in smaller communities.

2.2 LAGOONS, AERATED CELL OR AERATED LAGOON

A lagoon is a flat bottomed structure composed of earth dikes and sized to retain the wastewater for a designated period of time. The lagoon employs many complex systems working together in a cyclical manner. For example, the bacteria converts the organic matter into available plant food and promotes the growth of algae, which is one of the simplest forms of plant life. The algae, with the aid of sunlight, produces oxygen which is required to maintain good bacterial activity on the incoming wastes. Also, the bacteria, with sufficient food (wastes), grow and give off carbon dioxide, which is needed to sustain the algae's life cycle. During the retention period these natural processes work together to decompose and effectively stabilize the wastes. The efficiency of these processes are dependent on several factors such as liquid depth, temperature, algae growth, waste characteristics, etc. when conditions are at an optimum, then a good quality effluent may be expected.

Some lagoons, or waste stabilization ponds may be aerated, by either mechanical stirring or the bubbling of air into one small cell (aerated cell) or throughout the entire lagoon (aerated lagoon). Aeration reduces the retention period, increases the capacity of the existing lagoon and is useful in treating some industrial wastes. 80 to 85 percent removal of BOD and suspended solids may be expected.

2.3 Trickling Filter

The trickling filter is simply a bed of stones from 3 to 6 feet deep, to which primary treated sewage is equally distributed. Bacteria adhere to and multiply on the surfaces of these stones and consume most of the organic matter in the wastewater. Treated water trickles out through a network of pipes in the bottom of the filter where it is collected and directed to a final clarifier before final disposal. BOD and suspended solids removal by this process has been reported from 75 to 90 percent. Trickling filters have generally been employed in the more temperate climates.

3. TERTIARY TREATMENT

Tertiary treatment processes are applied to secondary effluent to further upgrade the effluent quality for specific receiving water needs.

In Ontario, the only tertiary processes being used on a municipal scale are polishing lagoons and tertiary effluent filtration. These are designated as "effluent polishing" in this publication.

a) Polishing Lagoons

Polishing lagoons offer an opportunity for increased BOD and suspended solids removal at a minimum of cost but require a relatively large land area. Secondary effluent is passed into lagoon where it is retained for several days while the algae-bacterial symbiotic relationship is encouraged to optimize oxidation of the organic waste. A fairly consistent removal of BOD is maintained throughout the year. There is a marked increase in effluent SS during the summer months when algal activity is at its peak and this constitutes a major disadvantage of the polishing lagoon. BOD removals in the order of 40 to 60% from a secondary effluent may be achieved.

b) Effluent Filtration

Filtration of secondary effluent is the most widely applied tertiary process in Ontario. A well designed and operated tertiary filter should achieve a good lowering of suspended solids and is effective in reducing BOD and total phosphorus.

4. PHOSPHORUS REMOVAL

Treatment for phosphorus basically consists of the addition of a chemical which through precipitation lowers the phosphorus in the effluent to a specified amount. Phosphorus must be reduced to one part per million (1 ppm) or milligrams per litre (mg/l) in all designated plants in the Lower Great Lakes drainage basin. Designated plants in the Upper Great Lakes and Ottawa River drainage basins must reduce influent phosphorus by 80 percent or to 1 ppm. Phosphorus removal facilities can be incorporated into any existing treatment works and the chemicals generally used are lime, aluminum salts or iron salts. New chemicals to be used in any plant must first undergo treatability studies to determine if the desired reduction of phosphorus is achieved with no upset in plant operation and to ensure that the quality of effluent has not deteriorated.

The increase removal of organic material and suspended solids are important side benefits when phosphorus treatment is employed in primary plants and lagoons with seasonal discharge. Secondary plants and continuous discharge lagoons do not enjoy these benefits; however, secondary plants report better settling in the final stages.

PROVINCIAL SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	10	27	37	32.659	206.361	239.020 (1,086.584)
CONVENTIONAL SECONDARY	28	56	84	167.524	697.276	864.800 (3,931.380)
MODIFIED SECONDARY	2	0	2	4.400	.000	4.400 (20.002)
CONTACT STABILIZATION	9	5	14	6.175	8.560	14.735 (66.985)
EXTENDED AERATION	52	27	79	41.545	49.253	90.798 (412.767)
TRICKLING FILTER	0	3	3	.000	8.100	8.100 (36.823)
HIGH RATE	4	1	5	4.910	2.000	6.910 (31.413)
AERATED LAGOON	0	1	1	.000	.608	.608 (2.764)
CONVENTIONAL LAGOON CONTINUOUS	12	10	22	3.007	6.469	9.476 (43.078)
CONVENTIONAL LAGOON SEASONAL	86	19	105	18.914	5.907	24.821 (112.836)
LAGOON WITH SPRAY	2	0	2	.209	.000	.209 (.950)
AERATED CELL PLUS LAGOON	8	6	14	5.963	1.631	7.594 (34.522)
OXIDATION DITCH	9	2	11	2.430	1.770	4.200 (19.093)
TOTALS	222	157	379	287.736	987.835	1,275.671
		CONVERSION FACTOR		(1,308.048)	(4,491.153)	(5,799.200)

** MIGD: MILLIONS 03 IMPERIAL GALLONS PER DAY
$1000M^3$:THOUSANDS OF CUBIC METRES

1 MGD = 4.546 $1000M^3$

Ministry of the Environment
Ontario

Southwestern Region

①

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Southwestern Region

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SOUTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<---------- ** CAPACITY MIGD (10^3 1000M^3) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	2	3	5	5.970	39.500	45.470 (206.707)
CONVENTIONAL SECONDARY	6	12	18	12.659	73.960	86.619 (393.770)
CONTACT STABILIZATION	0	1	1	.000	.400	.400 (1.818)
EXTENDED AERATION	14	3	17	5.845	4.738	10.583 (48.110)
HIGH RATE	1	0	1	.860	.000	.860 (3.910)
CONVENTIONAL LAGOON CONTINUOUS	4	1	5	.810	1.140	1.950 (8.865)
CONVENTIONAL LAGOON SEASONAL	40	3	43	9.077	1.037	10.114 (45.978)
AERATED CELL PLUS LAGOON	4	1	5	2.893	.084	2.977 (13.533)
OXIDATION DITCH	2	1	3	.825	1.420	2.245 (10.206)
**** TOTALS ****	73	25	98	38.939	122.279	161.218
				(177.017)	(555.880)	(732.897)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
10^3 1000M^3 : THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 10^3 1000M^3

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ALVINSTON TOWNSHIP ALVINSTON WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.132 (.600)	SYNDENHAM RIVER	MINISTRY
AMHERSTBURG TOWN AMHERSTBURG WPCP (EXP TO 1.7MG IN 83)	PRIMARY PHOSPHORUS REMOVAL	1.000 (4.546)	DETROIT RIVER	MUNICIPALITY
ANDERDON TOWNSHIP EDGEWATER BEACH LAGOON (NO DISCHARGE)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.355 (1.614)	DETROIT RIVER	MINISTRY
ARRAN TOWNSHIP TARA LAGOON (NO DISCHARGE IN 81)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.143 (.650)	SAUBLE RIVER	MINISTRY
AYLMER TOWN AYLMER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.535 (2.432)	CATFISH CREEK	MINISTRY
BELLE RIVER TOWN BELLE RIVER (COLLECTION SYSTEM)			(BELLE R./MAIDSTONE STP)	MINISTRY
BELMONT VILLAGE BELMONT LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.120 (.546)	KETTLE CREEK	MINISTRY
BLANDFORD - BLENHEIM TOWNSHIP PLATTSVILLE LAGOON (CANADA SAND PAPER)	AERATED CELL PLUS LAGOON CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.131 (.596)	NITH RIVER	MINISTRY
BLENHEIM TOWN BLENHEIM LAGOON (EXPANSION END 82)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.429 (1.950)	CAMERON DR - MCGREGOR CK	MUNICIPALITY
BLYTH VILLAGE BLYTH WPCP (START NOV 81) FILTER	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	.161 (.732)	BLYTH CREEK	MINISTRY
BRUSSELS VILLAGE BRUSSELS WPCP (START JUN 81) FILTER	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	.194 (.882)	MAITLAND RIVER	MINISTRY
CHATHAM CITY CHATHAM W P C P (EXP IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL AERATED LAGOON	7.900 (35.913)	THAMES RIVER	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CHESLEY TOWN CHESLEY LAGOON	CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.200 (.909)	NORTH SAUGEEN RIVER	MINISTRY
CLINTON TOWN CLINTON WPCP FILTER	CONTACT STABILIZATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.400 (1.818)	BAYFIELD RIVER	MUNICIPALITY
DOVER TOWNSHIP MITCHELLS BAY LAGOON (NO DISCHARGE)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.112 (.509)	(LAKE ST. CLAIR)	MINISTRY
DRESDEN TOWN DRESDEN WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	1.000 (4.546)	SYDENHAM RIVER	MINISTRY
DUNDALK VILLAGE DUNDALK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.119 (.541)	FOLEY DRAIN TO GRAND R.	MINISTRY
DURHAM TOWN DURHAM WPCP (UP-GRADED & EXPANDED IN 81	EXTENDED AERATION PHOSPHORUS REMOVAL	.480 (2.182)	SAUGEEN RIVER	MUNICIPALITY
DUTTON VILLAGE DUTTON LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.074 (.336)	BENNETT CK. TO L. ERIE	MINISTRY
EAST WILLIAMS TOWNSHIP AILSA CRAIG W P C P (COMP JUN 81	EXTENDED AERATION PHOSPHORUS REMOVAL	.132 (.600)	AUSABLE RIVER	MINISTRY
EAST ZORRA-TAVISTOCK TOWNSHIP TAVISTOCK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.238 (1.082)	TRIBUTARY TO THAMES R.	MINISTRY
ENNISKILLEN TOWNSHIP OIL CITY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.040 (.182)	BLACK CREEK	MINISTRY
ESSEX (N.E.) TOWN ESSEX LAGOON N.E. - SPRING DISCHARGE	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.238 (1.082)	PUCE RIVER DRAIN	MINISTRY
ESSEX (S.W.) TOWN ESSEX LAGOON S.W. - SPRING DISCHARGE	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.357 (1.623)	CANARD RIVER	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
EXETER TOWN EXETER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.491 (2.232)	AUSABLE RIVER	MINISTRY
FOREST TOWN FOREST LAGOON	CONVENTIONAL LAGOON SEASONAL	.297 (1.350)	HICKORY CREEK	MINISTRY
GLENCOE VILLAGE GLENCOE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.208 (.946)	NEWBIGGEN CREEK	MINISTRY
GODERICH TOWN GODERICH WPCP (EXP TO 2 MG IN 82)	CONVENTIONAL SECONDARY	1.000 (4.546)	LAKE HURON	MUNICIPALITY
GOSFIELD N. TOWNSHIP COTTAM LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.149 (.677)	MADDOX DRAIN TO BELLE R.	MINISTRY
HANOVER TOWN HANDVER WPCP (EXP TO 1.4 MG IN 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.400 (6.364)	SAUGEEN RIVER	MUNICIPALITY
HARROW TOWN HARROW LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.335 (1.523)	CEDAR CREEK	MINISTRY
HENSALL VILLAGE HENSALL LAGOON	CONVENTIONAL LAGOON SEASONAL	.137 (.623)	BLACK CK TO AUSABLE R.	MINISTRY
INGERSOLL TOWN INGERSOLL WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.250 (10.229)	THAMES RIVER	MINISTRY
KINCARDINE TOWN KINCARDINE LAGOON (CONTINUOUS DISCHARGE)	AERATED CELL PLUS LAGOON	1.300 (5.910)	LAKE HURON	MINISTRY
KINGSVILLE TOWN KINGSVILLE LAGOON (EXP IN 83)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.391 (1.777)	WIGLE CREEK	MUNICIPALITY
LEAMINGTON TOWN LEAMINGTON WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	4.200 (19.093)	LAKE ERIE	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
LISTOWEL TOWN LISTOWEL LAGOON (SEASONAL DISCHARGE)	AERATED CELL PLUS LAGOON (PHOSPHORUS REMOVAL) LAGOON WITH SPRAY	1.082 (4.919)	CHAPMAN DRAIN	MINISTRY
LOBO TOWNSHIP KILWORTH WPCP FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.010 (.045)	THAMES RIVER	MINISTRY
LONDON CITY POTTERSBURG PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.100 (23.185)	THAMES RIVER	MUNICIPALITY
LONDON CITY VAUXHALL WPCP (EXP TO 4.6 MG IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.600 (20.912)	THAMES RIVER	MUNICIPALITY
LONDON CITY OXFORD PLANT (EXP TO 2 MG IN 85)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.200 (5.455)	THAMES RIVER	MUNICIPALITY
LONDON CITY GREENWAY PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	27.350 (124.333)	THAMES RIVER	MUNICIPALITY
LONDON CITY ADELAIDE PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	THAMES RIVER	MUNICIPALITY
LUCAN VILLAGE LUCAN LAGOON	CONVENTIONAL LAGOON SEASONAL	.082 (.373)	LITTLE AUSABLE RIVER	MINISTRY
MAIDSTONE TOWNSHIP BELLE RIVER - MAIDSTONE W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	1.500 (6.819)	LAKE ST.CLAIR	MINISTRY
MARKDALE VILLAGE MARKDALE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.125 (.568)	ROCKY SAUGEEN RIVER	MINISTRY
MCGILLIVRAY TOWNSHIP PARKHILL LAGOON COMP JAN 80	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.243 (1.105)	PARKHILL CREEK	MINISTRY
MEAFORD TOWN MEAFORD WPCP	HIGH RATE	.860 (3.910)	GEORGIAN BAY	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
MILDMAY VILLAGE MILDMAY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.213 (.968)	OTTER CREEK	MINISTRY
MILVERTON VILLAGE (CONTINUOUS) MILVERTON LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.224 (1.018)	BOYLE DRAIN	MINISTRY
MITCHELL TOWN (CONTINUOUS) MITCHELL LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.912 (4.146)	THAMES RIVER	MINISTRY
MOORE (BRIGDEN) TOWNSHIP BRIGDEN POLICE VILLAGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.074 (.336)	BEAR CREEK	MINISTRY
MOORE (CORUNNA) TOWNSHIP CORUNNA P.V. PLANT	EXTENDED AERATION PHOSPHORUS REMOVAL	1.000 (4.546)	ST. CLAIR RIVER	MINISTRY
MOORE (COURTRIGHT) TOWNSHIP COURTRIGHT W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.125 (.568)	ST CLAIR RIVER	MINISTRY
NORMANBY TOWNSHIP NEUSTADT LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.092 (.418)	SOUTH SAUGEEN RIVER	MINISTRY
NORWICH TOWNSHIP NORWICH LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.219 (.996)	BIG OTTER CREEK	MINISTRY
OIL SPRINGS VILLAGE (POSSIBLE 120 DAY SPRAY) OIL SPRINGS LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.060 (.273)	BLACK CREEK	MINISTRY
OWEN SOUND CITY OWEN SOUND W.P.C.P	PRIMARY PHOSPHORUS REMOVAL	5.400 (24.548)	GEORGIAN BAY	MINISTRY
PAISLEY VILLAGE PAISLEY WPCP	OXIDATION DITCH	.155 (.705)	SAUGEEN RIVER	MINISTRY
PETROLIA TOWN PETROLIA WPCP + LAGOON + FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.700 (3.182)	BEAR CREEK	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
PLYMPTON TOWNSHIP WYOMING W P C P (COMP APR 80)	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.248 (1.127)	STONEHOUSE DRAIN	MINISTRY
POINT EDWARD VILLAGE POINT EDWARD WPCP	PRIMARY PHOSPHORUS REMOVAL	.570 (2.591)	ST. CLAIR RIVER	MINISTRY
PORT ELGIN TOWN PORT ELGIN WPCP	OXIDATION DITCH	1.420 (6.455)	SAUGEEN RIVER	MUNICIPALITY
PORT STANLEY VILLAGE PORT STANLEY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.329 (1.496)	DITCH TO KETTLE CREEK	MINISTRY
RALEIGH & TILBURY E TOWNSHIP MERLIN P.V. LAGOON- NO DISCHARGE ANNUAL	CONVENTIONAL LAGOON PHOSPHORUS REMOVAL	.102 (.464)	FOXTON DR.- JEANETTES CK	MINISTRY
RIDGETOWN TOWN RIDGETOWN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.294 (1.337)	GAWNE DR TO MCGREGOR CK	MINISTRY
RODNEY VILLAGE RODNEY LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.119 (.541)	SIXTEEN MILE CK.	MINISTRY
SANDWICH SOUTH TOWNSHIP SANDWICH SOUTH AREA COLLECTION SYSTEM			(WINDSOR-LITTLE R.PLANT)	MINISTRY
SANDWICH WEST TOWNSHIP SANDWICH WEST AREA (COLLECTION SYSTEM)			(WINDSOR WESTERLY WPCP)	MINISTRY
SARNIA TOWNSHIP BRIGHT'S GROVE POLICE VILLAGE LAGOON	CONVENTIONAL LAGOON SEASONAL	.387 (1.759)	CREEK TO L.HURON	MINISTRY
SARNIA CITY SARNIA WPCP	PRIMARY PHOSPHORUS REMOVAL	14.500 (65.917)	ST. CLAIR RIVER	MUNICIPALITY
SEAFORTH TOWN SEAFORTH LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.223 (1.014)	CRESSWELL CREEK	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
SOMBRA (P. V. SOMBRA TOWNSHIP P. V. SOMBRA LAGOON (NO DISCHARGE IN 81)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.213 (.968)	ST. CLAIR RIVER	MINISTRY
SOMBRA (PORT LAMBTON) TOWNSHIP PORT LAMBTON LAGOON (NO DISCHARGE IN 81)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.238 (1.082)	MARSHY CK.TO ST.CLAIR R.	MINISTRY
SOUTHAMPTON TOWN SOUTHAMPTON WPCP	OXIDATION DITCH	.670 (3.046)	SAUGEEN R.	MINISTRY
ST CLAIR BEACH VILLAGE ST CLAIR BEACH AREA COLLECTION SYSTEM			(WINDSOR-LITTLE R.PLANT)	MINISTRY
ST EDMUNDS TOWNSHIP TOBERMORY LAGOON *(EFF TO EXFIL PIT)	AERATED CELL PLUS LAGOON	.084 (.382)	*(LAKE HURON)	MUNICIPALITY
ST MARY'S SEPARATED TOWN ST MARY'S WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.800 (3.637)	THAMES RIVER	MINISTRY
ST THOMAS CITY ST.THOMAS WPCP (EXP TO 6 MG IN 82)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.750 (17.048)	KETTLE CREEK	MUNICIPALITY
STEPHEN TOWNSHIP GRAND BEND LAGOON (NO DISCHARGE)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.416 (1.891)	AUSABLE RIVER	MINISTRY
STRATFORD CITY STRATFORD WPCP FILTER	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	6.000 (27.276)	AVON RIVER	MINISTRY
STRATHROY TOWN STRATHROY LAGOON (EXP TO 1.14 MG-81)	CONVENTIONAL LAGOON CONTINUOUS	1.140 (5.182)	SYDENHAM RIVER	MUNICIPALITY
TECUMSEH TOWN TECUMSEH AREA COLLECTION SYSTEM			(WINDSOR-LITTLE R. PLANT	MINISTRY
THAMESVILLE TOWN THAMESVILLE W P C P (STARTED 81)	EXTENDED AERATION PHOSPHORUS REMOVAL	.180 (.818)	THAMES RIVER	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
THEDFORD VILLAGE THEDFORD LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON PHOSPHORUS REMOVAL	.106 (.482)	DECKER CREEK	MINISTRY
THORNBURY TOWN THORNBURY LAGOON	AERATED CELL PLUS LAGOON	.380 (1.727)	BEAVER RIVER	MINISTRY
TIBURY NORTH TOWNSHIP STONEY POINT P.V. LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.211 (.959)	LITTLE CREEK	MINISTRY
TILBURY TOWN TILBURY LAGOON (EXP IN 82)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.217 (.986)	TREMBLAY CREEK	MUNICIPALITY
TILBURY WEST TOWNSHIP COMBER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.089 (.405)	GOVN'T DR NO.1 TO BIG CK	MINISTRY
TILLSONBURG TOWN TILLSONBURG WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.800 (8.183)	BIG OTTER CREEK	MINISTRY
TUCKERSMITH TOWNSHIP VAN ASTRA W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.309 (1.405)	MUN DR. TO BAYFIELD R.	MINISTRY
WALKERTON TOWN WALKERTON WPCP (EXP TO 1.66 MG - 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.660 (7.546)	SAUGEEN RIVER	MUNICIPALITY
WALLACEBURG TOWN WALLACEBURG WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.500 (6.819)	SYDENHAM RIVER	MINISTRY
WATFORD VILLAGE WATFORD LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.231 (1.050)	BEAR CREEK	MINISTRY
WEST LORNE VILLAGE WEST LORNE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.149 (.677)	ZOLLER DRAIN	MINISTRY
WESTMINSTER TOWNSHIP SOUTHLAND PARK WPCP (LAMBETH)	EXTENDED AERATION PHOSPHORUS REMOVAL	.058 (.264)	DINGMAN CREEK	MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WESTMINSTER TWP TOWNSHIP WESTMINSTER WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.250 (1.137)	DINGMAN CREEK	MINISTRY
WIARTON TOWN WIARTON LAGOON (EXP TO .441MG IN 84)	CONVENTIONAL LAGOON CONTINUOUS	.151 (.686)	COLPOY BAY	MINISTRY
WINDSOR CITY LITTLE R. WPCP (EXP TO 14 MG PLANNED)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	LITTLE RIVER	MUNICIPALITY
WINDSOR CITY WESTERLY WPCP (EXP TO 36 MG IN 82)	PRIMARY PHOSPHORUS REMOVAL	24.000 (109.104)	DETROIT RIVER	MUNICIPALITY
WINGHAM TOWN WINGHAM LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.353 (1.605)	MAITLAND RIVER	MINISTRY
WOODSTOCK CITY WOODSTOCK WPCP (EXP TO 8.0 MG IN 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	THAMES RIVER	MUNICIPALITY
ZURICH VILLAGE ZURICH LAGOON	CONVENTIONAL LAGOON SEASONAL	.097 (.441)	MUN DRAIN TO L. HURON	MINISTRY

SOUTHWESTERN REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity	
2	33.500	MIGD
	(152.300	$1000M^3$)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: BELLE RIVER - MAIDSTONE POLLUTION CONTROL

Number of Plants: ONE Number of Municipalities Served: TWO

Operated By: THE MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
MAIDSTONE TWP.	Extended Aeration Phosphorus Removal	1.5 MIGD (6.8 $1000M^3$)	Belle River Town Maidstone Twp.	Lake St. Clair

SYSTEM: WINDSOR POLLUTION CONTROL

Number of Plants: TWO Number of Municipalities Served: FIVE

Operated By: WINDSOR PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
WINDSOR CITY (Westerly WPCP)	Primary Phosphorus Removal	24.0 MIGD (109.1 $1000M^3$)	Windsor City Sandwich West Twp.	Detroit River
WINDSOR CITY (Little River Plant)	Conventional Secondary Phosphorus Removal	8.0 MIGD (36.4 $1000M^3$)	Windsor City * Tecumseh Town * St. Clair Beach Village * Sandwich South Twp.	Little River

* Ministry operated sanitary sewage collection systems are serving these municipalities.

Ministry of the Environment
Ontario

West Central Region

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REGIONAL OFFICE

HAMILTON
119 King St.W.
P.O. BOX 2112
811-521-7640

DISTRICT OFFICES

Welland
637-641 Niagara St. N.
416-735-0431

Cambridge
400 Clyde Road
P.O. Box 219
519-623-2080

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WEST CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	1	2	3	.900	16.400	17.300 (78.646)
CONVENTIONAL SECONDARY	13	12	25	75.440	166.215	241.655 (1,098.564)
MODIFIED SECONDARY	1	0	1	1.700	.000	1.700 (7.728)
EXTENDED AERATION	5	1	6	1.307	.674	1.981 (9.006)
HIGH RATE	1	0	1	2.050	.000	2.050 (9.319)
CONVENTIONAL LAGOON SEASONAL	7	4	11	1.035	.541	1.576 (7.164)
AERATED CELL PLUS LAGOON	2	2	4	1.070	1.095	2.165 (9.842)
OXIDATION DITCH	4	0	4	.992	.000	.992 (4.510)
**** TOTALS ****	34	21	55	84.494	184.925	269.419
CONVERSION FACTOR				(384.110)	(840.669)	(1,224.779)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY

$1000M^3$: THOUSANDS OF CUBIC METRES

1 MGD = 4.546 $1000M^3$

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
ARTHUR VILLAGE ARTHUR LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.216 (.982)	CONESTOGA RIVER	MINISTRY
BRANTFORD CITY BRANTFORD WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	18.000 (81.828)	GRAND RIVER	MINISTRY
BRANTFORD TOWNSHIP CAINSVILLE LAGOON (SERVES INDUSTRY)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.037 (.168)	FAIRCHILD CREEK	MUNICIPALITY
BRANTFORD TOWNSHIP AIRPORT PLANT *(NO DISCHARGE)	COMMUNAL SEPTIC TANK	.050 (.227)	*(GRAND R.) (TILE FIELD)	MUNICIPALITY
CAMBRIDGE (GALT) CITY GALT W P C P (NEW 2NDRY DIGESTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.500 (38.641)	GRAND RIVER	MINISTRY
CAMBRIDGE (HESPELER) CITY HESPELER WPCP	HIGH RATE PHOSPHORUS REMOVAL	2.050 (9.319)	SPEED RIVER	MINISTRY
CAMBRIDGE (PRESTON) CITY PRESTON WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.710 (16.866)	GRAND RIVER	MINISTRY
DELHI TOWNSHIP DELHI PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.700 (3.182)	BIG CREEK	MINISTRY
DUNDAS TOWN DUNDAS KING ST. WPCP (AERATED CANAL)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	4.000 (18.184)	COOTES PARADISE	MUNICIPALITY
DUNNVILLE TOWN OSWEGO PARK LAGOON	CONVENTIONAL LAGOON SEASONAL	.020 (.091)	OSWEGO CREEK	MINISTRY
DUNNVILLE TOWN DUNNVILLE W P C P	MODIFIED SECONDARY PHOSPHORUS REMOVAL	1.700 (7.728)	GRAND RIVER	MINISTRY
ELORA VILLAGE ELORA W P C P (EXP+OP SWITCH 80)	EXTENDED AERATION PHOSPHORUS REMOVAL	.674 (3.064)	GRAND RIVER	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
FERGUS TOWN FERGUS WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.100 (5.001)	GRAND RIVER	MINISTRY
FLAMBOROUGH TOWNSHIP WATERDOWN WPCP FILTER	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	.600 (2.728)	GRINDSTONE CREEK	MUNICIPALITY
FORT ERIE TOWN CRYSTAL BEACH W P C P	CONVENTIONAL SECONDARY EXTENDED AERATION PHOSPHORUS REMOVAL	.855 (3.887)	LAKE ERIE	MUNICIPALITY
FORT ERIE TOWN RIVER ROAD WPCP (EXP TO 3.6 MG IN 79)	PRIMARY PHOSPHORUS REMOVAL	3.600 (16.366)	NIAGARA RIVER	MUNICIPALITY
GRAND VALLEY VILLAGE GRAND VALLEY WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.132 (.600)	GRAND RIVER	MINISTRY
GRIMSBY TOWN WEST END LAGOON	AERATED CELL PLUS LAGOON	.250 (1.137)	LAKE ONTARIO	MUNICIPALITY
GRIMSBY TOWN BAKER ROAD WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
GUELPH CITY GUELPH WPCP (NITRIFICATION + FILTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	12.000 (54.552)	SPEED RIVER	MUNICIPALITY
HALDIMAND TOWN CALEDONIA PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.500 (2.273)	GRAND RIVER	MINISTRY
HALDIMAND (CAYUGA) TOWN CAYUGA WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.200 (.909)	GRAND RIVER	MINISTRY
HALDIMAND (HAGERSVILLE) TOWN HAGERSVILLE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.200 (.909)	SANDUSK CREEK	MINISTRY
HAMILTON CITY HAMILTON STP (P. REM WITHOUT CHEM FEED)	CONVENTIONAL SECONDARY	90.000 (409.140)	HAMILTON HARBOUR	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (M^3/D)	WATERCOURSE	OPERATED BY
HARRISTON TOWN HARRISTON LAGOON	CONVENTIONAL LAGOON SEASONAL	.219 (.996)	MAITLAND RIVER	MINISTRY
KITCHENER CITY KITCHENER W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	27.000 (122.742)	GRAND RIVER	MINISTRY
MOUNT FOREST TOWN MOUNT FOREST WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.540 (2.455)	SAUGEEN RIVER	MUNICIPALITY
NANTICOKE CITY PORT DOVER W P C P	PRIMARY PHOSPHORUS REMOVAL	.900 (4.091)	LAKE ERIE	MINISTRY
NANTICOKE CITY WATERFORD LAGOON	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.470 (2.137)	NANTICOKE CREEK	MINISTRY
NANTICOKE CITY STELCO IND PARK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.100 (.455)	CENTRE CREEK	MINISTRY
NANTICOKE CITY TOWNSEND LAGOON (NO DISCHARGE)	CONVENTIONAL LAGOON SEASONAL	.210 (.955)	NANTICOKE CREEK	MINISTRY
NANTICOKE CITY JARVIS LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.110 (.500)	SANDUSK CREEK	MINISTRY
NIAGARA FALLS CITY STAMFORD W P C P (EXP TO 12.8 MG IN 80)	PRIMARY PHOSPHORUS REMOVAL	12.800 (58.189)	CHIPPAWA POWER CANAL	MUNICIPALITY
NIAGARA ON THE LAKE TOWN NIAGARA-ON-THE-LAKE LAGOON	AERATED CELL PLUS LAGOON	.845 (3.841)	LAKE ONTARIO	MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN GARDEN CITY RACEWAY LAGOON (NO DISCH 81)	CONVENTIONAL LAGOON SEASONAL	.140 (.636)	DITCH TO SIXMILE CREEK	MUNICIPALITY
NORFOLK TOWNSHIP PORT ROWAN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.160 (.727)	MUD CREEK	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
NORTH DUMFRIES TOWNSHIP P. V. AYR W P C P (STARTED MAR 80)	EXTENDED AERATION PHOSPHORUS REMOVAL	.260 (1.182)	NITH RIVER	MINISTRY
ORANGEVILLE TOWN ORANGEVILLE WPCP SAND FILTER	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.500 (6.819)	CREDIT RIVER	MINISTRY
PALMERSTON TOWN PALMERSTON WPCP - NO PRIMARY CLARIFIERS	CONVENTIONAL SECONDARY	.150 (.682)	WALLACE DRAIN	MINISTRY
PARIS TOWN PARIS W P C P (EXP TO 1.5 MGD IN 82)	EXTENDED AERATION PHOSPHORUS REMOVAL	.500 (2.273)	GRAND RIVER	MINISTRY
PORT COLBORNE CITY WEST PLANT (FLOWS FROM SEAWAY ONLY - 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.350 (6.137)	WELLAND CANAL	MUNICIPALITY
PORT COLBORNE CITY SEAWAY W P C P (STARTED JAN 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	15.000 (68.190)	WELLAND CANAL	MUNICIPALITY
SHELBURNE VILLAGE SHELBURNE WPCP FILTER	OXIDATION DITCH EFFLUENT POLISHING PHOSPHORUS REMOVAL	.450 (2.046)	BOYNE RIVER	MINISTRY
SIMCOE TOWN SIMCOE WPCP FILTER	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.400 (15.456)	LYNN RIVER	MINISTRY
SOUTH DUMFRIES TOWNSHIP ST. GEORGE P.V. WPCP (START JUN 81)	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.234 (1.064)	FAIRCHILD CREEK (W. BR)	MINISTRY
ST CATHARINES CITY PORT WELLER WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.370 (56.234)	LAKE ONTARIO	MUNICIPALITY
ST CATHARINES CITY PORT DALHOUSIE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	13.500 (61.371)	LAKE ONTARIO	MUNICIPALITY
STONEY CREEK TOWN BARTLETTS LAGOON	CONVENTIONAL LAGOON SEASONAL	.020 (.091)	LAKE ONTARIO	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WATERLOO CITY WATERLOO WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	GRAND RIVER	MINISTRY
WELLAND CITY WELLAND WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.000 (54.552)	WELLAND RIVER	MUNICIPALITY
WELLESLEY TOWNSHIP WELLESLEY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.110 (.500)	NITH RIVER	MINISTRY
WEST LINCOLN TOWNSHIP SMITHVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL	.344 (1.564)	TWENTY MILE CREEK	MUNICIPALITY
WILMOT TOWNSHIP NEW HAMBURG LAGOON FILTER	AERATED CELL PLUS LAGOON EFFLUENT POLISHING PHOSPHORUS REMOVAL	.600 (2.728)	NITH RIVER	MINISTRY
WILMOT TOWNSHIP BADEN WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.203 (.923)	BADEN CREEK	MINISTRY
WOOLWICH (ELMIRA) TOWNSHIP ELMIRA WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.680 (3.091)	CANAGAGIGUE CREEK	MINISTRY
WOOLWICH (ST.JACOBS) TOWNSHIP ST. JACOBS POLICE VILLAGE WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.210 (.955)	CONESTOGO RIVER	MINISTRY

West Central Region

WASTEWATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity MIGD	Capacity $(1000M)^3$
HALDIMAND-NORFOLK	8.670	39.414
HAMILTON-WENTWORTH	94.620	430.143
NIAGARA	77.054	350.287
WATERLOO	53.323	242.406
Total	233.667	1062.250

REGIONAL MUNICIPALITY OF HALDIMAND-NORFOLK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
DELHI TOWNSHIP DELHI PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.700 (3.182)	BIG CREEK	MINISTRY
DUNNVILLE TOWN OSWEGO PARK LAGOON	CONVENTIONAL LAGOON SEASONAL	.020 (.091)	OSWEGO CREEK	MINISTRY
DUNNVILLE TOWN DUNNVILLE W P C P	MODIFIED SECONDARY PHOSPHORUS REMOVAL	1.700 (7.728)	GRAND RIVER	MINISTRY
HALDIMAND TOWN CALEDONIA PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.500 (2.273)	GRAND RIVER	MINISTRY
HALDIMAND (CAYUGA) TOWN CAYUGA WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.200 (.909)	GRAND RIVER	MINISTRY
HALDIMAND (HAGERSVILLE) TOWN HAGERSVILLE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.200 (.909)	SANDUSK CREEK	MINISTRY
NANTICOKE CITY PORT DOVER W P C P	PRIMARY PHOSPHORUS REMOVAL	.900 (4.091)	LAKE ERIE	MINISTRY
NANTICOKE CITY WATERFORD LAGOON	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.470 (2.137)	NANTICOKE CREEK	MINISTRY
NANTICOKE CITY STELCO IND PARK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.100 (.455)	CENTRE CREEK	MINISTRY
NANTICOKE CITY TOWNSEND LAGOON (NO DISCHARGE)	CONVENTIONAL LAGOON SEASONAL	.210 (.955)	NANTICOKE CREEK	MINISTRY
NANTICOKE CITY JARVIS LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.110 (.500)	SANDUSK CREEK	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
NORFOLK TOWNSHIP PORT ROWAN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.160 (.727)	MUD CREEK	MINISTRY
SIMCOE TOWN SIMCOE WPCP FILTER	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.400 (15.456)	LYNN RIVER	MINISTRY
TOTAL CAPACITY		8.670 (39.414)		

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
DUNDAS TOWN DUNDAS KING ST. WPCP (AERATED CANAL)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	4.000 (18.184)	COOTES PARADISE	MUNICIPALITY
FLAMBOROUGH TOWNSHIP WATERDOWN WPCP FILTER	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	.600 (2.728)	GRINDSTONE CREEK	MUNICIPALITY
HAMILTON CITY HAMILTON STP (P. REM WITHOUT CHEM FEED)	CONVENTIONAL SECONDARY	90.000 (409.140)	HAMILTON HARBOUR	MUNICIPALITY
STONEY CREEK TOWN BARTLETTS LAGOON	CONVENTIONAL LAGOON SEASONAL	.020 (.091)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		94.620 (430.143)		

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
FORT ERIE TOWN CRYSTAL BEACH W P C P	CONVENTIONAL SECONDARY EXTENDED AERATION PHOSPHORUS REMOVAL	.855 (3.887)	LAKE ERIE	MUNICIPALITY
FORT ERIE TOWN RIVER ROAD WPCP (EXP TO 3.6 MG IN 79)	PRIMARY PHOSPHORUS REMOVAL	3.600 (16.366)	NIAGARA RIVER	MUNICIPALITY
GRIMSBY TOWN WEST END LAGOON	AERATED CELL PLUS LAGOON	.250 (1.137)	LAKE ONTARIO	MUNICIPALITY
GRIMSBY TOWN BAKER ROAD WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
NIAGARA FALLS CITY STAMFORD W P C P (EXP TO 12.8 MG IN 80)	PRIMARY PHOSPHORUS REMOVAL	12.800 (58.189)	CHIPPAWA POWER CANAL	MUNICIPALITY
NIAGARA ON THE LAKE TOWN NIAGARA-ON-THE-LAKE LAGOON	AERATED CELL PLUS LAGOON	.845 (3.841)	LAKE ONTARIO	MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN GARDEN CITY RACEWAY LAGOON (NO DISCH 81)	CONVENTIONAL LAGOON SEASONAL	.140 (.636)	DITCH TO SIXMILE CREEK	MUNICIPALITY
PORT COLBORNE CITY WEST PLANT (FLOWS FROM SEAWAY ONLY - 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.350 (6.137)	WELLAND CANAL	MUNICIPALITY
PORT COLBORNE CITY SEAWAY W P C P (STARTED JAN 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	15.000 (68.190)	WELLAND CANAL	MUNICIPALITY
ST CATHARINES CITY PORT WELLER WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.370 (56.234)	LAKE ONTARIO	MUNICIPALITY
ST CATHARINES CITY PORT DALHOUSIE WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	13.500 (61.371)	LAKE ONTARIO	MUNICIPALITY

REGIONAL MUNICIPALITY OF NIAGARA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
WELLAND CITY WELLAND WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.000 (54.552)	WELLAND RIVER	MUNICIPALITY
WEST LINCOLN TOWNSHIP SMITHVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL	.344 (1.564)	TWENTY MILE CREEK	MUNICIPALITY
TOTAL CAPACITY		77.054 (350.287)		

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CAMBRIDGE (GALT) CITY GALT W P C P (NEW 2NDRY DIGESTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.500 (38.641)	GRAND RIVER	MINISTRY
CAMBRIDGE (HESPELER) CITY HESPELER WPCP	HIGH RATE PHOSPHORUS REMOVAL	2.050 (9.319)	SPEED RIVER	MINISTRY
CAMBRIDGE (PRESTON) CITY PRESTON WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.710 (16.866)	GRAND RIVER	MINISTRY
KITCHENER CITY KITCHENER W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	27.000 (122.742)	GRAND RIVER	MINISTRY
NORTH DUMFRIES TOWNSHIP P. V. AYR W P C P (STARTED MAR 80)	EXTENDED AERATION PHOSPHORUS REMOVAL	.260 (1.182)	NITH RIVER	MINISTRY
WATERLOO CITY WATERLOO WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	GRAND RIVER	MINISTRY
WELLESLEY TOWNSHIP WELLESLEY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.110 (.500)	NITH RIVER	MINISTRY
WILMOT TOWNSHIP NEW HAMBURG LAGOON FILTER	AERATED CELL PLUS LAGOON EFFLUENT POLISHING PHOSPHORUS REMOVAL	.600 (2.728)	NITH RIVER	MINISTRY
WILMOT TOWNSHIP BADEN WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.203 (.923)	BADEN CREEK	MINISTRY
WOOLWICH (ELMIRA) TOWNSHIP ELMIRA WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.680 (3.091)	CANAGAGIGUE CREEK	MINISTRY
WOOLWICH (ST.JACOBS) TOWNSHIP ST. JACOBS POLICE VILLAGE WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.210 (.955)	CONESTOGO RIVER	MINISTRY
TOTAL CAPACITY		53.323 (242.406)		

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity	
4	131.870	MIGD
	(599.500	$1000M^3$)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: GRIMSBY / LINCOLN POLLUTION CONTROL

Number of Plants: ONE
Number of Municipalities Served: TWO
Operated By: REGIONAL MUNICIPALITY OF NIAGARA

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
GRIMSBY TOWN (Baker Rd. WPCP)	Conventional Secondary Phosphorus Removal	4.0 MIGD ($18.2\ 1000M^3$)	Grimsby Town Lincoln Town	Lake Ontario

SYSTEM: HAMILTON POLLUTION CONTROL

Number of Plants: ONE
Number of Municipalities Served: THREE
Operated By: REGIONAL MUNICIPALITY OF HAMILTON WENTWORTH

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
HAMILTON CITY (Woodward Avenue WPCP)	*Conventional Secondary	90.0 MIGD ($409.1\ 1000M^3$)	Ancaster Town Hamilton City Stoney Creek Town	Hamilton Harbour

*Note: Phosphorus Removal is achieved without chemical feed at the treatment plant due to the nature of of the wastes.

SYSTEM: ST. CATHARINES POLLUTION CONTROL

Number of Plants: TWO Number of Municipalities Served: TWO
Operated By: REGIONAL MUNICIPALITY OF NIAGARA

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
ST. CATHARINES CITY (Port Weller)	Conventional Secondary Phosphorus Removal	12.37 MIGD ($56.23\ 1000M^3$)	St. Catharines Thorold Town	Port Weller Harbour (Lake Ontario)
ST. CATHARINES CITY (Port Dalhousie)	Conventional Secondary Phosphorus Removal	13.50 MIGD ($61.37\ 1000M^3$)	St. Catharines Thorold Town	Lake Ontario

SYSTEM: WELLAND POLLUTION CONTROL

Number of Plants: ONE Number of Municipalities Served: TWO
Operated By: REGIONAL MUNICIPALITY OF NIAGARA

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
WELLAND CITY (Welland WPCP)	Conventional Secondary Phosphorus Removal	12.0 MIGD ($54.6\ 1000M^3$)	Pelham Town Welland City	Welland River

Ministry of the Environment
Ontario

Central Region

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REGIONAL OFFICE

DON MILLS
150 Ferrand Dr.
416-424-3000

DISTRICT OFFICES

Barrie
12 Fairview Rd.
705-726-1730

Muskoka-Haliburton
Gravenhurst Shopping Centre
705-687-3408

Peterborough
139 George St. N.
705-743-2972

Halton-Peel
1226 White Oaks Blvd.
Oakville
416-844-5747

SUB-OFFICE

Huntsville
100 Main St. E.
705-789-2386



Central Region

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REGIONAL OFFICE
DON MILLS
150 Ferrand Dr.
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SUB-OFFICE
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CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD (10^3 1000M^3)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	0	1	1	.000	4.200	4.200 (19.093)
CONVENTIONAL SECONDARY	2	25	27	51.300	445.170	496.470 (2,256.953)
CONTACT STABILIZATION	1	1	2	.230	.660	.890 (4.046)
EXTENDED AERATION	7	12	19	27.237	26.838	54.075 (245.825)
TRICKLING FILTER	0	2	2	.000	8.000	8.000 (36.368)
HIGH RATE	1	1	2	.800	2.000	2.800 (12.729)
CONVENTIONAL LAGOON CONTINUOUS	0	4	4	.000	2.855	2.855 (12.979)
CONVENTIONAL LAGOON SEASONAL	2	7	9	.428	2.669	3.097 (14.079)
LAGOON WITH SPRAY	1	0	1	.135	.000	.135 (.614)
AERATED CELL PLUS LAGOON	0	2	2	.000	.366	.366 (1.664)
OXIDATION DITCH	3	0	3	.613	.000	.613 (2.787)
**** TOTALS ****	17			80.743	492.758	573.501
** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY		CONVERSION FACTOR		(367.058)	(2,240.078)	(2,607.136)
10^3 1000M^3						

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (3 (1000M))	WATERCOURSE	OPERATED BY
ALLISTON TOWN ALLISTON WPCP	EXTENDED AERATION	.770 (3.500)	BOYNE RIVER	MINISTRY
ANSON HINDON MINDEN TOWNSHIP MINDEN W P C P (MOE SUP)	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.208 (.946)	GULL RIVER	MUNICIPALITY
AURORA TOWN AURORA WPCP	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	AURORA CREEK	MUNICIPALITY
BARRIE CITY BARRIE WPCP (EXP PLANNED FOR 83)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	6.000 (27.276)	KEMPENFELT BAY	MUNICIPALITY
BEETON VILLAGE BEETON EXFILTRATION LAGOON	CONVENTIONAL LAGOON	.300 (1.364)	EXFILTRATE TO BEETON CR	MINISTRY
BICROFT IMPROVEMENT DISTRICT CARDIFF EXFILTRATION LAGOON	CONVENTIONAL LAGOON PHOSPHORUS REMOVAL	.100 (.455)	EXFILTRATE TO MINK CREEK	MUNICIPALITY
BRACEBRIDGE TOWN BRACEBRIDGE LAGOON (EXP PLANNED 83)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.454 (2.064)	MUSKOKA RIVER	MUNICIPALITY
BRADFORD TOWN BRADFORD WPCP (EXP TO 1.5 IN 83)	HIGH RATE CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.800 (3.637)	SCHOMBERG RIVER	MINISTRY
BRIGHTON VILLAGE BRIGHTON LAGOON (CONTINUOUS DIS)	AERATED CELL PLUS LAGOON PHOSPHORUS REMOVAL	.136 (.618)	BUTLER CREEK	MUNICIPALITY
BROCK TOWNSHIP CANNINGTON LAGOON (28.8 ACRES)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.203 (.923)	BEAVERTON RIVER	MUNICIPALITY
BROCK TOWNSHIP BEAVERTON LAGOON (EXP IN 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.382 (1.737)	LAKE SIMCOE	MUNICIPALITY
BURLINGTON CITY SKYWAY W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	20.500 (93.193)	HAMILTON HARBOUR	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
CALEDON TOWN BOLTON WPCP EXPAND TO 1.5 MG PROPOSED	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.000 (4.546)	HUMBER RIVER	MUNICIPALITY
CAMPBELLFORD TOWN CAMPBELLFORD W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.300 (5.910)	TRENT RIVER	MINISTRY
COBOURG TOWN COBOURG WPCP (PROPOSED 2ND PLANT IN 83)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.530 (16.047)	COBOURG BROOK	MUNICIPALITY
COLBORNE VILLAGE COLBORNE LAGOON (EXT AER .36 MG IN 83)	CONVENTIONAL LAGOON CONTINUOUS	.090 (.409)	COLBORNE CREEK	MUNICIPALITY
COLDWATER VILLAGE COLDWATER WPCP	EXTENDED AERATION	.120 (.546)	COLDWATER RIVER	MINISTRY
COLLINGWOOD TOWN COLLINGWOOD W P C P (EXP TO 5.4 MG 82)	PRIMARY PHOSPHORUS REMOVAL	4.200 (19.093)	GEORGIAN BAY	MUNICIPALITY
DYSART-ET-AL TOWNSHIP HALIBURTON WPCP FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.210 (.955)	DRAG RIVER (GRASS LAKE)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	HOLLAND RIVER	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP MOUNT ALBERT (NO DISCHARGE) FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.150 (.682)	MOUNT ALBERT CREEK	MUNICIPALITY
ELMVALE VILLAGE ELMVALE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.165 (.750)	WYE RIVER	MUNICIPALITY
ESSA TOWNSHIP ANGUS P.V. WPCP (START DEC 81)	EXTENDED AERATION PHOSPHORUS REMOVAL	.747 (3.396)	NOTTAWASAGA RIVER	MINISTRY
FENELON FALLS VILLAGE FENELON FALLS WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.220 (1.000)	FENELON RIVER	MINISTRY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
GEORGINA TOWNSHIP SUTTON LAGOON	EXTENDED AERATION PHOSPHORUS REMOVAL	.450 (2.046)	BLACK RIVER	MUNICIPALITY
GRAVENHURST TOWN GRAVENHURST WPCP (ABLE TO SWITCH PROCESS	EXTENDED AERATION CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.670 (3.046)	MUSKOKA LAKE	MUNICIPALITY
HALTON HILLS TOWN ACTON WPCP + LAGOON FILTER	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	1.000 (4.546)	BLACK CREEK	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN WPCP FILTER	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	3.000 (13.638)	SILVER CREEK	MUNICIPALITY
HASTINGS VILLAGE HASTINGS WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.233 (1.059)	TRENT RIVER	MINISTRY
HAVELOCK VILLAGE HAVELOCK LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.128 (.582)	PLATO CREEK	MINISTRY
HUNTSVILLE TOWN HUNTSVILLE W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	MUSKOKA RIVER	MUNICIPALITY
LAKEFIELD VILLAGE LAKEFIELD LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.350 (1.591)	OTONABEE RIVER	MUNICIPALITY
LINDSAY TOWN LINDSAY LAGOON (6 CELLS)	CONVENTIONAL LAGOON CONTINUOUS AERATED CELL PHOSPHORUS REMOVAL	2.500 (11.365)	SCUGOG RIVER	MUNICIPALITY
METRO TORONTO CITY NORTH TORONTO WPCP (EAST YORK)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	DON RIVER	MUNICIPALITY
METRO TORONTO CITY HIGHLAND CREEK WPCP EXP TO 48 MGD IN 80	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	48.000 (218.208)	HIGHLAND CREEK	MUNICIPALITY
METRO TORONTO CITY HUMBER WPCP (ETOBICOKE)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	90.000 (409.140)	LAKE ONTARIO	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
METRO TORONTO CITY MAIN PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	180.000 (818.280)	LAKE ONTARIO	MUNICIPALITY
MIDLAND TOWN MIDLAND W P C P (EXP TO 3 MG 81	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.000 (13.638)	MIDLAND BAY	MUNICIPALITY
MILLBROOK VILLAGE MILLBROOK WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.250 (1.137)	BAXTER CREEK	MINISTRY
MILTON TOWN MILTON W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	2.840 (12.911)	OAKVILLE CREEK	MUNICIPALITY
MISSISSAUGA SOUTH-PEEL CITY LAKEVIEW WPCP SOUTH-PEEL SYSTEM	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	50.000 (227.300)	LAKE ONTARIO	MINISTRY
MISSISSAUGA SOUTH-PEEL CITY CLARKSON WPCP SOUTH-PEEL SYSTEM	EXTENDED AERATION PHOSPHORUS REMOVAL	24.000 (109.104)	LAKE ONTARIO	MINISTRY
MUSKOKA LAKES TOWNSHIP BALA PLANT	COMMUNAL SEPTIC TANK PHOSPHORUS REMOVAL	.020 (.091)	LONG LAKE	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.120 (.546)	INDIAN RIVER	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT TWO	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	SOPER CREEK	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT ONE (NEW PLANT IN 81)	TRICKLING FILTER PHOSPHORUS REMOVAL	.500 (2.273)	SOPER CREEK	MUNICIPALITY
NEWCASTLE TOWN PORT DARLINGTON WPCP (NEW PLANT IN 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE W P C P	EXTENDED AERATION	.400 (1.818)	LAKE ONTARIO	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
NEWMARKET TOWN NEWMARKET W P C P	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	HOLLAND RIVER	MUNICIPALITY
NORWOOD VILLAGE NORWOOD WPCP	OXIDATION DITCH PHOSPHORUS REMOVAL	.160 (.727)	OUSE RIVER	MINISTRY
OAKVILLE TOWN SOUTH EAST WPCP (EXP TO 5.0 MG IN 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.000 (22.730)	LAKE ONTARIO	MUNICIPALITY
OAKVILLE TOWN SOUTH WEST W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.500 (47.733)	LAKE ONTARIO	MUNICIPALITY
OMEMEE VILLAGE OMEMEE LAGOON (SPRAY IRRIGATION)	LAGOON WITH SPRAY EFFLUENT POLISHING	.135 (.614)	PIGEON RIVER	MINISTRY
ORILLIA CITY ORILLIA W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	4.000 (18.184)	LAKE SIMCOE	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 1	TRICKLING FILTER PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 2	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
PENETANGUISHENE TOWN PENETANGUISHENE WPCP	CONTACT STABILIZATION PHOSPHORUS REMOVAL	.660 (3.000)	PENETANG BAY	MUNICIPALITY
PETERBOROUGH CITY PETERBOROUGH PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	12.000 (54.552)	OTONABEE RIVER	MUNICIPALITY
PICKERING TOWN DUFFIN CREEK WPCP (YORK/DURHAM)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	40.000 (181.840)	LAKE ONTARIO	MUNICIPALITY
PORT HOPE TOWN PORT HOPE WPCP	HIGH RATE PHOSPHORUS REMOVAL	2.000 (9.092)	LAKE ONTARIO	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
PORT MC NICOLL VILLAGE PORT MC NICOLL WPCP	CONTACT STABILIZATION PHOSPHORUS REMOVAL	.230 (1.046)	GEORGIAN BAY	MINISTRY
SCUGOG TOWNSHIP PORT PERRY LAGOON (EXP .7 MG 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.700 (3.182)	LAKE SCUGOG	MUNICIPALITY
SMITH TOWNSHIP TOWNSHIP WOODLAND ACRES WPCP	EXTENDED AERATION	.080 (.364)	OTONABEE RIVER	MINISTRY
STAYNER TOWN STAYNER LAGOON	AERATED CELL PLUS LAGOON	.230 (1.046)	LAMONT CREEK	MUNICIPALITY
TOTTENHAM VILLAGE TOTTENHAM LAGOON	CONVENTIONAL LAGOON SEASONAL	.280 (1.273)	BEETON CREEK	MUNICIPALITY
UXBRIDGE TOWNSHIP UXBRIDGE WPCP FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.800 (3.637)	UXBRIDGE BROOK	MUNICIPALITY
VAUGHAN TOWN KLEINBERG PLANT	EXTENDED AERATION	.050 (.227)	HUMBER RIVER	MUNICIPALITY
VICTORIA HARBOUR VILLAGE VICTORIA HARBOUR WPCP (MOE SUP) FILTER	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	.280 (1.273)	GEORGIAN BAY	MUNICIPALITY
WASAGA BEACH TOWN WASAGA BEACH WPCP (COMP JUN 81)	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	1.270 (5.773)	(NOTTAWASAGA RIVER)	MINISTRY
WHITBY TOWN CORBETT CREEK WPCP (EXP TO 8 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	LAKE ONTARIO	MUNICIPALITY
WHITBY TOWN PRINGLE CREEK PLANT ONE	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.250 (5.683)	PRINGLE CREEK	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
WHITBY TOWN PRINGLE CREEK PLANT TWO	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.000 (9.092)	PRINGLE CREEK	MUNICIPALITY
WHITCHURCH - STOUFFVILLE TOWN STOUFFVILLE WPCP (.75 MG EXP PROPOSED)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	.550 (2.500)	DUFFIN CREEK	MUNICIPALITY

Central Region

WASTEWATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity MIGD	$(1000M)^3$
DURHAM	69.235	314.742
HALTON	42.840	194.751
METRO TORONTO	328.000	1491.088
PEEL	75.000	340.950
YORK	7.500	34.095
DISTRICT MUNICIPALITY OF MUSKOKA	2.264	10.292
Total	524.839	2385.918

REGIONAL MUNICIPALITY OF DURHAM

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
BROCK TOWNSHIP CANNINGTON LAGOON (28.8 ACRES)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.203 (.923)	BEAVERTON RIVER	MUNICIPALITY
BROCK TOWNSHIP BEAVERTON LAGOON (EXP IN 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.382 (1.737)	LAKE SIMCOE	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT TWO	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	SOPER CREEK	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE PLANT ONE (NEW PLANT IN 81)	TRICKLING FILTER PHOSPHORUS REMOVAL	.500 (2.273)	SOPER CREEK	MUNICIPALITY
NEWCASTLE TOWN PORT DARLINGTON WPCP (NEW PLANT IN 81)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE W P C P	EXTENDED AERATION	.400 (1.818)	LAKE ONTARIO	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 1	TRICKLING FILTER PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
OSHAWA CITY HARMONY CR NO 2	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	7.500 (34.095)	LAKE ONTARIO	MUNICIPALITY
PICKERING TOWN DUFFIN CREEK WPCP (YORK/DURHAM)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	40.000 (181.840)	LAKE ONTARIO	MUNICIPALITY
SCUGOG TOWNSHIP PORT PERRY LAGOON (EXP .7 MG 80)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.700 (3.182)	LAKE SCUGOG	MUNICIPALITY
UXBRIDGE TOWNSHIP UXBRIDGE WPCP FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.800 (3.637)	UXBRIDGE BROOK	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WHITBY TOWN CORBETT CREEK WPCP (EXP TO 8 MGD IN 80)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	LAKE ONTARIO	MUNICIPALITY
WHITBY TOWN PRINGLE CREEK PLANT ONE	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.250 (5.683)	PRINGLE CREEK	MUNICIPALITY
TOTAL CAPACITY		69.235 (314.742)		

REGIONAL MUNICIPALITY OF HALTON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
BURLINGTON CITY SKYWAY W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	20.500 (93.193)	HAMILTON HARBOUR	MUNICIPALITY
HALTON HILLS TOWN ACTON WPCP + LAGOON FILTER)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	1.000 (4.546)	BLACK CREEK	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN WPCP FILTER	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	3.000 (13.638)	SILVER CREEK	MUNICIPALITY
MILTON TOWN MILTON W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL EFFLUENT POLISHING	2.840 (12.911)	OAKVILLE CREEK	MUNICIPALITY
OAKVILLE TOWN SOUTH EAST WPCP (EXP TO 5.0 MG IN 79)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.000 (22.730)	LAKE ONTARIO	MUNICIPALITY
OAKVILLE TOWN SOUTH WEST W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.500 (47.733)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		42.840 (194.751)		

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
METRO TORONTO CITY NORTH TORONTO WPCP (EAST YORK)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	10.000 (45.460)	DON RIVER	MUNICIPALITY
METRO TORONTO CITY HIGHLAND CREEK WPCP EXP TO 48 MGD IN 80	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	48.000 (218.208)	HIGHLAND CREEK	MUNICIPALITY
METRO TORONTO CITY HUMBER WPCP (ETOBICOKE)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	90.000 (409.140)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY MAIN PLANT	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	180.000 (818.280)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		328.000 (1,491.088)		

DISTRICT MUNICIPALITY OF MUSKOKA

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
BRACEBRIDGE TOWN BRACEBRIDGE LAGOON (EXP PLANNED 83)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.454 (2.064)	MUSKOKA RIVER	MUNICIPALITY
GRAVENHURST TOWN GRAVENHURST WPCP (ABLE TO SWITCH PROCESS	EXTENDED AERATION CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.670 (3.046)	MUSKOKA LAKE	MUNICIPALITY
HUNTSVILLE TOWN HUNTSVILLE W P C P	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	MUSKOKA RIVER	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP BALA PLANT	COMMUNAL SEPTIC TANK PHOSPHORUS REMOVAL	.020 (.091)	LONG LAKE	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.120 (.546)	INDIAN RIVER	MUNICIPALITY
TOTAL CAPACITY		2.264 (10.292)		

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CALEDON TOWN BOLTON WPCP EXPAND TO 1.5 MG PROPOSED	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	1.000 (4.546)	HUMBER RIVER	MUNICIPALITY
MISSISSAUGA SOUTH-PEEL CITY LAKEVIEW WPCP SOUTH-PEEL SYSTEM	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	50.000 (227.300)	LAKE ONTARIO	MINISTRY
MISSISSAUGA SOUTH-PEEL CITY CLARKSON WPCP SOUTH-PEEL SYSTEM	EXTENDED AERATION PHOSPHORUS REMOVAL	24.000 (109.104)	LAKE ONTARIO	MINISTRY
TOTAL CAPACITY		75.000 (340.950)		

REGIONAL MUNICIPALITY OF YORK

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
AURORA TOWN AURORA WPCP	EXTENDED AERATION EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	AURORA CREEK	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	HOLLAND RIVER	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP MOUNT ALBERT (NO DISCHARGE) FILTER	EXTENDED AERATION PHOSPHORUS REMOVAL EFFLUENT POLISHING	.150 (.682)	MOUNT ALBERT CREEK	MUNICIPALITY
GEORGINA TOWNSHIP SUTTON LAGOON	EXTENDED AERATION PHOSPHORUS REMOVAL	.450 (2.046)	BLACK RIVER	MUNICIPALITY
NEWMARKET TOWN NEWMARKET W P C P	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	3.000 (13.638)	HOLLAND RIVER	MUNICIPALITY
VAUGHAN TOWN KLEINBERG PLANT	EXTENDED AERATION	.050 (.227)	HUMBER RIVER	MUNICIPALITY
WHITCHURCH - STOUFFVILLE TOWN STOUFFVILLE WPCP (.75 MG EXP PROPOSED)	CONVENTIONAL SECONDARY EFFLUENT POLISHING PHOSPHORUS REMOVAL	.550 (2.500)	DUFFIN CREEK	MUNICIPALITY
TOTAL CAPACITY		7.500 (34.095)		

CENTRAL REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity
3	442.000 MIGD
	(2009.310 1000M^3)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: METRO TORONTO POLLUTION CONTROL SYSTEM

Number of Plants: FOUR Number of Municipalities Served: EIGHT

Operated By: METRO TORONTO DEPARTMENT OF WORKS

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
EAST YORK BOROUGH (North Toronto Plant)	Conventional Secondary Phosphorous Removal	10.0 MIGD (45.46 $1000M^3$)	East York Borough North York City Toronto City	Don River
ETOBICOKE BOROUGH (Humber Plant)	Conventional Secondary Phosphorous Removal	90.0 MIGD (409.14 $1000M^3$)	Etobicoke Borough Vaughan Town North York City York Borough	Lake Ontario
SCARBOROUGH BOROUGH (Highland Creek Plant)	Conventional Secondary Phosphorous Removal	48.0 MIGD (218.21 $1000M^3$)	Scarborough Borough Markham Town	Highland Creek
TORONTO CITY (Main Plant)	Conventional Secondary Phosphorous Removal	180.0 MIGD (818.3 $1000M^3$)	East York Borough North York City Scarborough Borough Toronto City Markham Town	Lake Ontario

SYSTEM: SOUTH PEEL POLLUTION CONTROL SYSTEM

Number of Plants: TWO Number of Municipalities Served: THREE

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
MISSISSAUGA (Clarkson Plant)	Extended Aeration Phosphorous Removal	24.0 MIGD ($109.1\ 1000M^3$)	Mississauga City Brampton City	Lake Ontario
MISSISSAUGA (Lakeview Plant)	Conventional Secondary Phosphorous Removal	50.0 MIGD ($227.3\ 1000M^3$)	Mississauga City Brampton City Etobicoke Borough	Lake Ontario

SYSTEM: YORK/DURHAM POLLUTION CONTROL

Number of Plants: ONE Number of Municipalities Served: FIVE

Operated By: REGIONAL MUNICIPALITY OF DURHAM

PLANT LOCATION	TREATMENT	CAPACITY (MIGD)	MUNICIPALITIES SERVED	WATERCOURSE
PICKERING TOWN (Duffin Creek WPCP)	Conventional secondary Phosphorus Removal	40.0 MIGD ($181.8\ 1000M^3$)	Ajax Town Pickering Town Markham Town Richmond Hill Town (Thornhill) (Oak Ridges) (Maple) Aurora Town	Lake Ontario

Ministry of the Environment
Ontario

Southeastern Region

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REGIONAL OFFICE

KINGSTON
133 Dalton St.
613-549-4000

DISTRICT OFFICES

Belleville
15 Victoria Ave.
613-962-9208

Cornwall
4 Montreal Rd.
613-933-7402

Ottawa
2378 Holly Lane
613-521-3450

Pembroke
1000 MacKay St.
P.O. Box 67
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Southeastern Region

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Ministry of the Environment
Ontario



REGIONAL OFFICE

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Pembroke
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SOUTHEASTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD (10^3 1000M)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	3	13	16	10.300	112.451	122.751 (558.026)
CONVENTIONAL SECONDARY	4	2	6	17.125	6.800	23.925 (108.763)
MODIFIED SECONDARY	1	0	1	2.700	.000	2.700 (12.274)
CONTACT STABILIZATION	1	1	2	.300	1.000	1.300 (5.910)
EXTENDED AERATION	12	2	14	2.223	.753	2.976 (13.529)
HIGH RATE	1	0	1	1.200	.000	1.200 (5.455)
AERATED LAGOON	0	1	1	.000	.608	.608 (2.764)
CONVENTIONAL LAGOON CONTINUOUS	0	1	1	.000	1.300	1.300 (5.910)
CONVENTIONAL LAGOON SEASONAL	18	0	18	5.561	.000	5.561 (25.280)
LAGOON WITH SPRAY	1	0	1	.074	.000	.074 (.336)
AERATED CELL PLUS LAGOON	1	0	1	1.500	.000	1.500 (6.819)
**** TOTALS ****	42	20	62	40.983 (186.309)	122.912 (558.758)	163.895 (745.067)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY

10^3 1000M : THOUSANDS OF CUBIC METRES

CONVERSION FACTOR

1 MGD = 4.546 10^3 1000M

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ALEXANDRIA TOWN ALEXANDRIA LAGOON (CONTINUOUS DISCHARGE)	AERATED CELL PLUS LAGOON	1.500 (6.819)	DELISLE R	MINISTRY
ALFRED VILLAGE ALFRED LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON	.157 (.714)	RUISSEAU DES AZATIKA	MINISTRY
ALMONTE TOWN ALMONTE LAGOON (PHOS REMOVAL IN 82)	CONVENTIONAL LAGOON SEASONAL AERATED CELL	1.200 (5.455)	MISSISSIPPI RIVER	MINISTRY
ARNPRIOR TOWN ARNPRIOR WPCP	PRIMARY PHOSPHORUS REMOVAL	1.500 (6.819)	MADAWASKA RIVER	MUNICIPALITY
BANCROFT VILLAGE BANCROFT WPCP	EXTENDED AERATION	.400 (1.818)	YORK RIVER	MINISTRY
BARRY'S BAY VILLAGE BARRY'S BAY WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.273 (1.241)	KAMANISKEG LAKE	MINISTRY
BATH VILLAGE BATH WPCP	EXTENDED AERATION	.423 (1.923)	LAKE ONTARIO	MUNICIPALITY
BELLEVILLE CITY BELLEVILLE W P C P (EXP TO 12 MG IN 84)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	BAY OF QUINTE	MINISTRY
BROCKVILLE CITY BROCKVILLE WPCP EXP TO 5.625 MGD IN 80	PRIMARY PHOSPHORUS REMOVAL	5.625 (25.571)	ST LAWRENCE RIVER	MUNICIPALITY
CARDINAL VILLAGE CANADA STARCH	AERATED LAGOON	.608 (2.764)	ST. LAWRENCE RIVER	MUNICIPALITY
CARLETON PLACE TOWN CARLETON PLACE WPCP	HIGH RATE PHOSPHORUS REMOVAL	1.200 (5.455)	MISSISSIPPI RIVER	MINISTRY
CASSELMAN VILLAGE CASSELMAN LAGOON	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	S. NATION RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CHALK RIVER VILLAGE CHALK RIVER WPCP	EXTENDED AERATION CONTACT STABILIZATION	.080 (.364)	DUCK CR TO DUCK LAKE	MINISTRY
CHESTERVILLE VILLAGE CHESTERVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL	.226 (1.027)	SOUTH NATION RIVER	MINISTRY
COBDEN VILLAGE COBDEN WPCP (TO MUN IN 82)	EXTENDED AERATION PHOSPHORUS REMOVAL	.150 (.682)	MUSKRAT RIVER	MINISTRY
CORNWALL CITY CORNWALL WPCP (EXP TO 12.MG IN 85)	PRIMARY PHOSPHORUS REMOVAL	8.250 (37.505)	ST. LAWRENCE R.	MINISTRY
CORNWALL TOWNSHIP LONG SAULT WPCP	CONVENTIONAL SECONDARY	.300 (1.364)	ST. LAWRENCE R	MUNICIPALITY
DEEP RIVER TOWN DEEP RIVER WPCP	PRIMARY	.480 (2.182)	OTTAWA RIVER	MUNICIPALITY
DELORO VILLAGE DELORO WPCP	COMMUNAL SEPTIC TANK	.008 (.036)	MOIRA RIVER	MUNICIPALITY
DESERONTO TOWN DESERONTO W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.300 (1.364)	BAY OF QUINTE	MINISTRY
EGANVILLE VILLAGE EGANVILLE WPCP	EXTENDED AERATION	.168 (.764)	BONNECHERE RIVER	MINISTRY
ERNESTOWN TOWNSHIP AMHERSTVIEW LAGOON	CONVENTIONAL LAGOON SEASONAL	.526 (2.391)	COLLINS CR. N. CHANNEL	MINISTRY
ERNESTOWN TOWNSHIP ODESSA WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.200 (.909)	MILLHAVEN CREEK	MINISTRY
FRANKFORD VILLAGE FRANKFORD W P C P	CONTACT STABILIZATION PHOSPHORUS REMOVAL	.300 (1.364)	TRENT RIVER	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
GANANOQUE SEPARATED TOWN GANANOQUE LAGOON (OPER SWITCH IN 80	CONVENTIONAL LAGOON SEASONAL	.720 (3.273)	STOCKING CR GANANOQUE R	MINISTRY
GOULBOURN TOWNSHIP RICHMOND LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.320 (1.455)	JOCK RIVER	MINISTRY
HAGARTY & RICHARDS TOWNSHIP KILLALOE STN. WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.130 (.591)	BRUDENELL CR.(GOLDEN L.)	MINISTRY
HAWKESBURY TOWN HAWKESBURY W P C P	MODIFIED SECONDARY	2.700 (12.274)	OTTAWA RIVER	MINISTRY
IROQUOIS VILLAGE IRIQUOIS W P C P EXP TO 1.1 MGD NOV 80	PRIMARY	1.100 (5.001)	ST. LAWRENCE RIVER	MUNICIPALITY
KEMPTVILLE TOWN KEMPTVILLE WPCP (TERTIARY PROPSED)	PRIMARY PHOSPHORUS REMOVAL	.500 (2.273)	KEMPTVILLE CREEK	MUNICIPALITY
KINGSTON CITY KINGSTON WPCP	PRIMARY PHOSPHORUS REMOVAL	13.500 (61.371)	ST LAWRENCE RIVER	MUNICIPALITY
KINGSTON TWP TOWNSHIP KINGSTON TWP WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	5.500 (25.003)	LAKE ONTARIO	MINISTRY
L'ORIGNAL VILLAGE L'ORIGNAL WPCP	EXTENDED AERATION	.200 (.909)	OTTAWA RIVER	MINISTRY
LANCASTER VILLAGE LANCASTER LAGOON	CONVENTIONAL LAGOON SEASONAL	.130 (.591)	FINNEY CREEK	MINISTRY
LEEDS & LANSDOWNE TOWNSHIP LANSDOWNE LAGOON- (SPRAY IRRIGATION)	LAGOON WITH SPRAY	.074 (.336)	LA RUE MILLS CREEK	MINISTRY
MADOC VILLAGE MADOC LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.300 (1.364)	MOIRA LAKE	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
MARMORA VILLAGE MARMORA W P C P	EXTENDED AERATION PHOSPHORUS REMOVAL	.191 (.868)	CROWE RIVER	MINISTRY
MERRICKVILLE VILLAGE MERRICKVILLE WPCP	EXTENDED AERATION PHOSPHORUS REMOVAL	.110 (.500)	RIDEAU RIVER	MINISTRY
MORRISBURG VILLAGE MORRISBURG WPCP	PRIMARY CONVENTIONAL LAGOON CONTINUOUS	.500 (2.273)	ST. LAWRENCE RIVER	MUNICIPALITY
NAPANEE TOWN NAPANEE WPCP	PRIMARY PHOSPHORUS REMOVAL	2.000 (9.092)	NAPANEE RIVER	MUNICIPALITY
NEPEAN CITY WATTS CREEK WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	6.500 (29.549)	WATTS CREEK	MUNICIPALITY
OSNABRUCK TOWNSHIP INGLESIDE W P C P	PRIMARY	.346 (1.573)	ST. LAWRENCE RIVER	MUNICIPALITY
OTTAWA CITY GREEN CREEK WPCP	PRIMARY PHOSPHORUS REMOVAL	80.000 (363.680)	OTTAWA RIVER	MUNICIPALITY
PEMBROKE CITY PEMBROKE W P C P	PRIMARY	2.500 (11.365)	OTTAWA RIVER	MUNICIPALITY
PERTH TOWN PERTH LAGOON	CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	1.300 (5.910)	TAY RIVER	MUNICIPALITY
PETAWAWA VILLAGE PETAWAWA WPCP (DEPT NAT DEF)	PRIMARY	.800 (3.637)	OTTAWA RIVER	MINISTRY
PICTON TOWN PICTON W P C P	CONTACT STABILIZATION PHOSPHORUS REMOVAL	1.000 (4.546)	PICTON BAY	MUNICIPALITY
PITTSBURGH TOWNSHIP CANA WPCP	EXTENDED AERATION	.021 (.095)	CATARAQUI RIVER	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
PLANTAGENET VILLAGE PLANTAGENET LAGOON	CONVENTIONAL LAGOON SEASONAL	.130 (.591)	SOUTH NATION RIVER	MINISTRY
PRESCOTT SEPARATED TOWN PRESCOTT-EDWARDSBURGH WPCP	PRIMARY PHOSPHORUS REMOVAL	1.250 (5.683)	ST. LAWRENCE RIVER	MINISTRY
RENFREW TOWN RENFREW WPCP	PRIMARY PHOSPHORUS REMOVAL	1.900 (8.637)	BONNECHERE RIVER	MUNICIPALITY
ROCKLAND TOWN ROCKLAND LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	OTTAWA RIVER	MINISTRY
RUSSELL TOWNSHIP RUSSELL LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON PHOSPHORUS REMOVAL	.220 (1.000)	CASTOR RIVER	MINISTRY
SIDNEY TWP TOWNSHIP BATAWA WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	.125 (.568)	TRENT RIVER	MINISTRY
SMITHS FALLS SEPARATED TOWN SMITHS FALLS WPCP	PRIMARY PHOSPHORUS REMOVAL	2.500 (11.365)	RIDEAU RIVER	MUNICIPALITY
ST. ISIDORE DE PRESCOTT VILLAGE ST. ISIDORE LAGOON (ANNUAL DISCHARGE)	CONVENTIONAL LAGOON	.144 (.655)	SCOTCH RIVER	MINISTRY
STAFFORD TOWNSHIP STAFFORD COLLECTION SYSTEM			(PEMBROKE WPCP)	MINISTRY
STIRLING VILLAGE STIRLING LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.250 (1.137)	RAWDON CREEK	MINISTRY
TRENTON TOWN TRENTON WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	3.500 (15.911)	BAY OF QUINTE	MINISTRY
TWEED VILLAGE TWEED LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.266 (1.209)	MOIRA RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
VANKLEEK HILL TOWN VANKLEEK HILL LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	LITTLE RIDEAU CREEK	MINISTRY
WELLINGTON VILLAGE WELLINGTON W P C P (COMP NOV 81)	EXTENDED AERATION PHOSPHORUS REMOVAL	.330 (1.500)	LAKE ONTARIO	MUNICIPALITY
WESTPORT VILLAGE WESTPORT LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.072 (.327)	UPPER RIDEAU LAKE	MINISTRY
WINCHESTER VILLAGE WINCHESTER LAGOON	CONVENTIONAL LAGOON SEASONAL	.200 (.909)	HENDERSON DR TO CASTOR R	MINISTRY

Southeastern Region

WASTEWATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity MIGD	$(1000M)^3$
OTTAWA CARLETON		
Total	86.820	394.684

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
GOULBOURN TOWNSHIP RICHMOND LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.320 (1.455)	JOCK RIVER	MINISTRY
NEPEAN CITY WATTS CREEK WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	6.500 (29.549)	WATTS CREEK	MUNICIPALITY
OTTAWA CITY GREEN CREEK WPCP	PRIMARY PHOSPHORUS REMOVAL	80.000 (363.680)	OTTAWA RIVER	MUNICIPALITY
TOTAL CAPACITY		86.820 (394.684)		

SOUTHEASTERN REGION

Area Wastewater Treatment Systems

Total Area Wastewater Treatment Systems	Total Capacity	
1	86.5	MIGD
	(393.2	$1000M^3$)

AREA WASTEWATER TREATMENT SYSTEMS

SYSTEM: OTTAWA-CARLETON POLLUTION CONTROL SYSTEM

Number of Plants: TWO Number of Municipalities Served: SEVEN

Operated By: REGIONAL MUNICIPALITY OF OTTAWA-CARLTON

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	WATERCOURSE
NEPEAN TWP. (Watts Creek Plant)	Conventional Secondary Phosphorus Removal	6.5 MIGD ($29.55\ 1000M^3$)	Goulbourn Twp. Nepean Twp. Ottawa City	Watts Creek
OTTAWA CITY (Green Creek Plant)	Primary Phosphorus Removal	80.0 MIGD ($363.68\ 1000M^3$)	Cumberland Twp. Gloucester Nepean Twp. Ottawa City Rockcliff Park Vanier City.	Ottawa River

Ministry of the Environment
Ontario

Northeastern Region

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REGIONAL OFFICE

SUDBURY
199 Larch St.
705-675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
705-476-1001

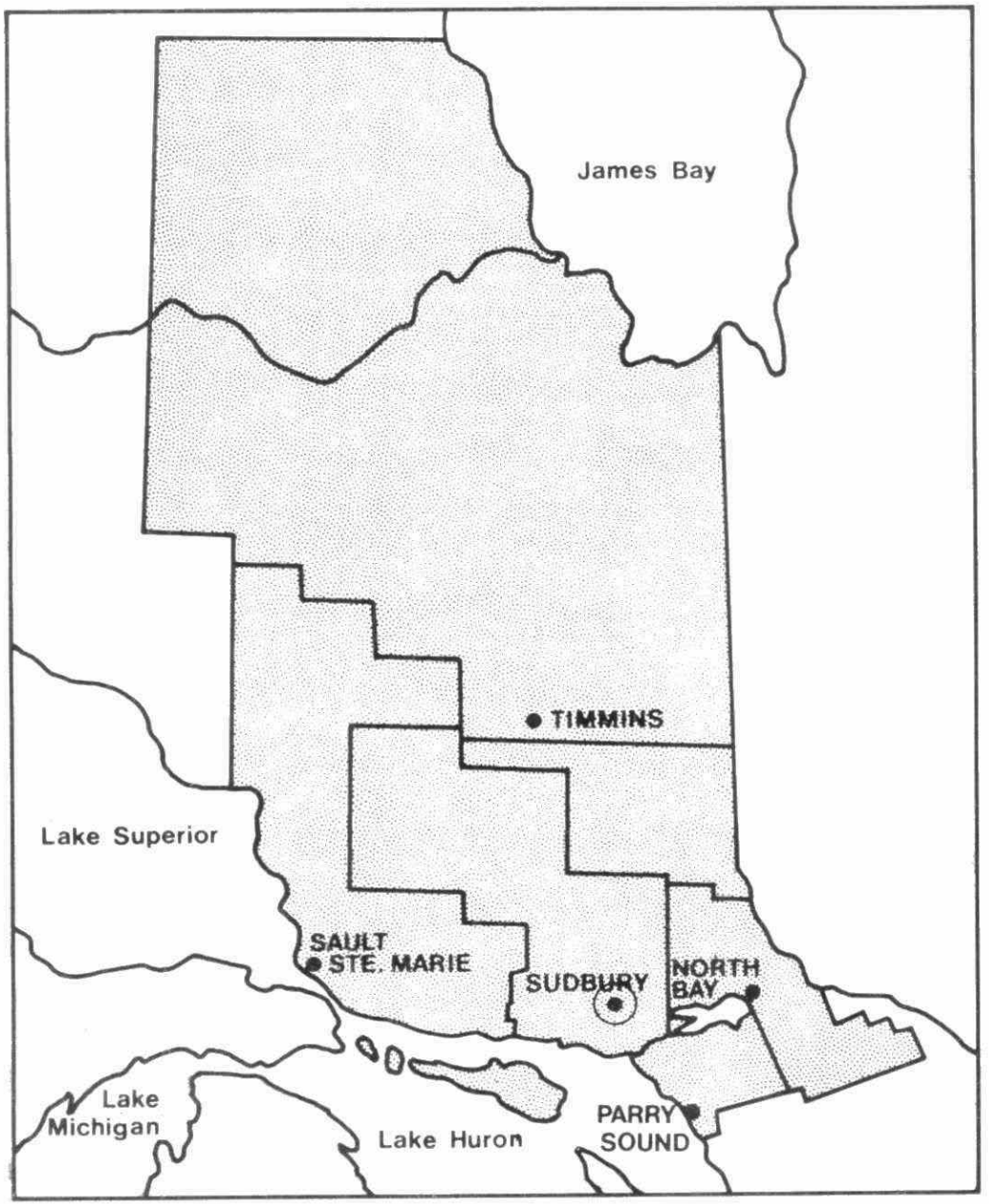
Sault Ste. Marie
445 Albert St. E.
705-949-4640

Timmins
83 Algonquin Blvd. W.
705-264-9474

Parry Sound
74 Church St.
705-746-2139

Northeastern Region

Ministry of the Environment
Ontario



REGIONAL OFFICE

SUDBURY
199 Larch St.
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NORTHEASTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD (10^3 M^3)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	3	4	7	13.489	9.030	22.519 (102.371)
CONVENTIONAL SECONDARY	3	4	7	11.000	4.631	15.631 (71.059)
CONTACT STABILIZATION	4	0	4	4.480	.000	4.480 (20.366)
EXTENDED AERATION	7	8	15	1.727	16.130	17.857 (81.178)
TRICKLING FILTER	0	1	1	.000	.100	.100 (.455)
CONVENTIONAL LAGOON CONTINUOUS	7	3	10	2.087	.874	2.961 (13.461)
CONVENTIONAL LAGOON SEASONAL	17	5	22	2.693	1.660	4.353 (19.789)
AERATED CELL PLUS LAGOON	1	1	2	.500	.086	.586 (2.664)
OXIDATION DITCH	0	1	1	.000	.350	.350 (1.591)
**** TOTALS ****	42	27	69	35.976	32.861	68.837
				(163.547)	(149.386)	(312.933)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
10^3 M^3 : THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 10^3 M^3

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (M^3/1000M)	WATERCOURSE	OPERATED BY
ARMSTRONG TOWNSHIP EARLTON LAGOON	CONVENTIONAL LAGOON SEASONAL	.080 (.364)	EVANTUREL CREEK	MUNICIPALITY
ASSIGINACK TOWNSHIP MANITOWANING LAGOON	CONVENTIONAL LAGOON SEASONAL	.120 (.546)	LAKE HURON	MINISTRY
BLACK RIVER - MATHESON TOWNSHIP VAL GAGNE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.027 (.123)	BLACK RIVER	MINISTRY
BLACK RIVER - MATHESON TOWNSHIP HOLTYRE PLANT	COMMUNAL SEPTIC TANK	.055 (.250)	BLACK RIVER	MUNICIPALITY
BLACK RIVER - MATHESON R TOWNSHIP RAMORE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.027 (.123)	BLACK RIVER	MINISTRY
BLACK RIVER MATHESON TOWNSHIP MATHESON WPCP	CONTACT STABILIZATION	.230 (1.046)	BLACK RIVER	MINISTRY
BLIND RIVER TOWN BLIND RIVER W P C P	EXTENDED AERATION	.770 (3.500)	LAKE HURON	MINISTRY
BRUCE MINES TOWN BRUCE MINES LAGOON	CONVENTIONAL LAGOON SEASONAL	.070 (.318)	L.HURON(ST.JOSEPH CHNL.)	MINISTRY
BURKS FALLS VILLAGE BURKS FALLS LAGOON	CONVENTIONAL LAGOON SEASONAL	.190 (.864)	MAGNETAWAN RIVER	MINISTRY
CALDWELL TOWNSHIP VERNER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.140 (.636)	VEUVE RIVER	MINISTRY
CAPREOL TOWN CAPREOL *EXFILTRATION LAGOON	CONVENTIONAL LAGOON	.340 (1.546)	*(VERMILION RIVER)	MUNICIPALITY
CASIMIR JENNINGS APPLEBY TOWNSHIP ST CHARLES LAGOON COMP JUN 80	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.100 (.455)	MCPHERSON CREEK W.BRANCH	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CHAPLEAU TOWNSHIP CHAPLEAU W P C P	PRIMARY	.400 (1.818)	CHAPLEAU LAKE	MUNICIPALITY
COCHRANE TOWN COCHRANE WPCP	EXTENDED AERATION EFFLUENT POLISHING	.750 (3.410)	LILLABELLE LAKE	MUNICIPALITY
COSBY,MASON & MARTLAND TOWNSHIP NOELVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.260 (1.182)	WOLF RIVER	MINISTRY
ELLIOT LAKE TOWN ELLIOT LAKE WPCP (NEW 2.5 MG PLANT IN 82	CONVENTIONAL SECONDARY	.487 (2.214)	HORNE LAKE	MUNICIPALITY
ELLIOT LAKE TOWN PLANT TWO (BOTH PLANTS TO PHASE OUT 82)	PRIMARY	1.000 (4.546)	ANGEL LAKE	MUNICIPALITY
ENGLEHART TOWN ENGLEHART LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.200 (.909)	ENGLEHART RIVER	MINISTRY
ESPANOLA TOWN ESPANOLA WPCP	PRIMARY	.660 (3.000)	SPANISH RIVER	MINISTRY
FAUQUIER TOWNSHIP MOONBEAM LAGOON (EXP TO .143 IN 80)	CONVENTIONAL LAGOON CONTINUOUS	.143 (.650)	CREEK SYS TO GROUNDHOG R	MINISTRY
GORE BAY TOWN GORE BAY LAGOON COMP AUG 80	CONVENTIONAL LAGOON SEASONAL	.177 (.805)	GORE BAY	MINISTRY
HAILEYBURY TOWN HAILEYBURY WPCP	CONTACT STABILIZATION	.350 (1.591)	LAKE TAMISKAMING	MINISTRY
HAILEYBURY TOWN NORTH COBALT LAGOON	CONVENTIONAL LAGOON SEASONAL	.100 (.455)	FARR CREEK	MINISTRY
HEARST TOWN HEARST LAGOON (3 AERATED CELLS)	AERATED CELL PLUS LAGOON	.500 (2.273)	MATTAWISHKWIA RIVER	MINISTRY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
IROQUOIS FALLS TOWN IROQUOIS FALLS WPCP	CONTACT STABILIZATION	.900 (4.091)	ABITIBI RIVER	MINISTRY
KAPUSKASING TOWN KAPUSKASING WPCP	CONVENTIONAL SECONDARY	2.000 (9.092)	KAPUSKASING RIVER	MINISTRY
KAPUSKASING TOWN VAL ALBERT LAGOON (FLOWS TO KAP END 81)	CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.220 (1.000)	GLOUGH CREEK	MUNICIPALITY
KAPUSKASING TOWN BRUNETVILLE LAGOON (FLOWS TO KAP END 81)	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.180 (.818)	GLOUGH CREEK	MUNICIPALITY
KIRKLAND LAKE TOWN KIRKLAND LAKE WPCP	CONTACT STABILIZATION	3.000 (13.638)	MURDOCK CREEK	MINISTRY
KIRKLAND LAKE TOWN CHAPUT HUGHES	COMMUNAL SEPTIC TANK	.050 (.227)	AMIKOUGAMI CREEK	MUNICIPALITY
KIRKLAND LAKE TOWN SWASTIKA	COMMUNAL SEPTIC TANK	.065 (.295)	BLANCHE RIVER	MUNICIPALITY
LARDER LAKE TOWNSHIP LARDER LAKE TOWNSITE PLANT	PRIMARY	.130 (.591)	LARDER LAKE	MUNICIPALITY
LATCHFORD TOWN LATCHFORD WPCP	EXTENDED AERATION	.075 (.341)	MONTREAL RIVER	MINISTRY
LITTLE CURRENT TOWN LITTLE CURRENT LAGOON	CONVENTIONAL LAGOON CONTINUOUS	1.440 (6.546)	DITCH TO GEORGIAN BAY	MINISTRY
MATTAWA TOWN MATTAWA LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.180 (.818)	MATTAWA RIVER	MINISTRY
MCGARRY TOWNSHIP VIRGINIATOWN AND KEARNS PLANT	COMMUNAL SEPTIC TANK	.160 (.727)	TAILINGS PD TO LARDER L.	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
MICHIPICOTEN TOWNSHIP WAWA LAGOON	CONVENTIONAL LAGOON SEASONAL	.400 (1.818)	MAGPIE RIVER	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE W P C P (OLD TOWNSITE)	EXTENDED AERATION	.112 (.509)	STORE CK TO MOOSE RIVER	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSE FACTORY W P C P (ISLAND)	EXTENDED AERATION	.055 (.250)	MOOSE RIVER	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE NORTH WPCP	EXTENDED AERATION	.055 (.250)	BUTLER CK TO MOOSE RIVER	MINISTRY
NEW LISKEARD TOWN NEW LISKEARD LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.637 (2.896)	WABI RIVER	MUNICIPALITY
NICKEL CENTRE TOWN CONISTON WPCP	OXIDATION DITCH CONVENTIONAL SECONDARY	.350 (1.591)	CONISTON CREEK	MUNICIPALITY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE W P C P	TRICKLING FILTER	.100 (.455)	(RECYCLE TO MINE PROCESS	MUNICIPALITY
NICKEL CENTRE TOWN GARSON LAGOON *(FLOWS TO SUDBURY'WPCP)	CONVENTIONAL LAGOON SEASONAL	.760 (3.455)	(TO SUDBURY W P C P)	MUNICIPALITY
NORTH BAY CITY NORTH BAY WPCP (EXP TO 12MG IN 84)	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	8.000 (36.368)	LAKE NIPISSING	MINISTRY
NORTH HIMSWORTH TOWNSHIP CALLANDER LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.105 (.477)	DITCH TO CALLANDER BAY	MINISTRY
ONAPING FALLS TOWN ONAPING WPCP	CONVENTIONAL SECONDARY	.144 (.655)	SWAMP	MUNICIPALITY
ONAPING FALLS TOWN LEVACK WPCP	EXTENDED AERATION	.320 (1.455)	ONAPING RIVER	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ONAPING FALLS TOWN DOWLING W P C P (NEW IN 80)	EXTENDED AERATION	.660 (3.000)	ONAPING RIVER	MUNICIPALITY
OWENS,WILLIAMSON-IDING'T TOWNSHIP VAL-RITA LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.155 (.705)	CREEK TO KAPUSKASING R.	MINISTRY
PARRY SOUND TOWN PARRY SOUND WPCP (EXP IN 82)	PRIMARY PHOSPHORUS REMOVAL	.829 (3.769)	MC CURRY LAKE	MINISTRY
POWASSAN TOWN POWASSAN LAGOON	CONVENTIONAL LAGOON CONTINUOUS PHOSPHORUS REMOVAL	.070 (.318)	GENESEE CREEK	MINISTRY
RATTER & DUNNETT TOWNSHIP WARREN LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.133 (.605)	VEUVE RIVER	MINISTRY
RAYSIDE-BALFOUR TOWN CHELMSFORD LAGOON (PLANT ONE)	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	MCKENZIE CREEK	MUNICIPALITY
RAYSIDE-BALFOUR TOWN CHELMSFORD PLANT 2 (OPER TO MUN IN 80)	EXTENDED AERATION CONTACT STABILIZATION	.675 (3.069)	WHITSON CREEK	MUNICIPALITY
RAYSIDE-BALFOUR TOWN AZILDA W P C P (OPER TO MUN IN 81)	EXTENDED AERATION	.625 (2.841)	WHITSON CREEK	MUNICIPALITY
SAULT STE MARIE CITY SAULT STE.MARIE WPCP	PRIMARY	12.000 (54.552)	ST. MARY'S RIVER	MINISTRY
SHACKLETON AND MACHIN TOWNSHIP FAUQUIER LAGOON	CONVENTIONAL LAGOON SEASONAL	.080 (.364)	TO GROUNDHOG RIVER	MINISTRY
SMOOTH ROCK FALLS TOWN SMOOTH ROCK FALLS WPCP	EXTENDED AERATION	.360 (1.637)	MATTAGAMI RIVER	MINISTRY
STURGEON FALLS TOWN STURGEON FALLS WPCP	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	1.000 (4.546)	STURGEON RIVER	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
SUDBURY CITY COPPER CLIFF WPCP (NO DISCHARGE)	CONVENTIONAL SECONDARY	1.500 (6.819)	(RECYCLE TO MINE PROCESS	MUNICIPALITY
SUDBURY CITY SUDBURY W P C P	EXTENDED AERATION	11.250 (51.143)	JUNCTION CREEK	MUNICIPALITY
SUNDRIDGE VILLAGE SUNRIDGE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.144 (.655)	BERNARD CREEK	MINISTRY
TEMAGAMI TOWNSHIP TEMAGAMI LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.060 (.273)	SNAKE ISLAND LAKE	MINISTRY
TEMAGAMI TOWNSHIP NORTH GOWARD LAGOON (EXP ->.08 MG IN 81)	AERATED CELL PLUS LAGOON	.086 (.391)	NET LAKE	MUNICIPALITY
THESSALON TOWN THESSALON LAGOON COMP JUN 80	CONVENTIONAL LAGOON SEASONAL	.359 (1.632)	THESSALON RIVER	MINISTRY
TIMMINS CITY BOB'S LAKE LAGOON	CONVENTIONAL LAGOON CONTINUOUS	.017 (.077)	BOB'S CK TO PORCUPINE L.	MUNICIPALITY
TIMMINS CITY MATTAGAMI W P C P	PRIMARY	7.500 (34.095)	MATTAGAMI RIVER	MUNICIPALITY
TIMMINS CITY WHITNEY & TISDALE WPCP	EXTENDED AERATION	1.500 (6.819)	PORCUPINE RIVER	MUNICIPALITY
VALLEY EAST TOWN HAMNER,VAL-CARON,VAL-THERESE	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.500 (11.365)	VERMILLION RIVER	MUNICIPALITY
WALDEN TOWN LIVELY WPCP	EXTENDED AERATION	.350 (1.591)	MEATBIRD CREEK	MUNICIPALITY
WEBBWOOD TOWN WEBBWOOD LAGOON	CONVENTIONAL LAGOON SEASONAL	.100 (.455)	GOUGH CREEK	MINISTRY

NORTHEASTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WICKSTEED TOWNSHIP HORNEPAYNE WPCP	EXTENDED AERATION	.300 (1.364)	JACKFISH RIVER	MINISTRY

Northeastern Region

WASTEWATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity MIGD	(1000M)^3
SUDBURY		
Total	20.234	91.984

REGIONAL MUNICIPALITY OF SUDBURY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CAPREOL TOWN CAPREOL *EXFILTRATION LAGOON	CONVENTIONAL LAGOON	.340 (1.546)	*(VERMILION RIVER)	MUNICIPALITY
CASIMIR JENNINGS APPLEBY TOWNSHIP ST CHARLES LAGOON COMP JUN 80	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.100 (.455)	MCPHERSON CREEK W.BRANCH	MINISTRY
COSBY,MASON & MARTLAND TOWNSHIP NOELVILLE LAGOON	CONVENTIONAL LAGOON SEASONAL PHOSPHORUS REMOVAL	.260 (1.182)	WOLF RIVER	MINISTRY
NICKEL CENTRE TOWN CONISTON WPCP	OXIDATION DITCH CONVENTIONAL SECONDARY	.350 (1.591)	CONISTON CREEK	MUNICIPALITY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE W P C P	TRICKLING FILTER	.100 (.455)	(RECYCLE TO MINE PROCESS	MUNICIPALITY
NICKEL CENTRE TOWN GARSON LAGOON *(FLOWS TO SUDBURY WPCP)	CONVENTIONAL LAGOON SEASONAL	.760 (3.455)	(TO SUDBURY W P C P)	MUNICIPALITY
ONAPING FALLS TOWN ONAPING WPCP	CONVENTIONAL SECONDARY	.144 (.655)	SWAMP	MUNICIPALITY
ONAPING FALLS TOWN LEVACK WPCP	EXTENDED AERATION	.320 (1.455)	ONAPING RIVER	MUNICIPALITY
ONAPING FALLS TOWN DOWLING W P C P (NEW IN 80)	EXTENDED AERATION	.660 (3.000)	ONAPING RIVER	MUNICIPALITY
RAYSIDE-BALFOUR TOWN CHELMSFORD LAGOON (PLANT ONE)	CONVENTIONAL LAGOON SEASONAL	.300 (1.364)	MCKENZIE CREEK	MUNICIPALITY
RAYSIDE-BALFOUR TOWN CHELMSFORD PLANT 2 (OPER TO MUN IN 80)	EXTENDED AERATION CONTACT STABILIZATION	.675 (3.069)	WHITSON CREEK	MUNICIPALITY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
RAYSIDE-BALFOUR TOWN AZILDA W P C P (OPER TO MUN IN 81)	EXTENDED AERATION	.625 (2.841)	WHITSON CREEK	MUNICIPALITY
SUDBURY CITY COPPER CLIFF WPCP (NO DISCHARGE)	CONVENTIONAL SECONDARY	1.500 (6.819)	(RECYCLE TO MINE PROCESS	MUNICIPALITY
SUDBURY CITY SUDBURY W P C P	EXTENDED AERATION	11.250 (51.143)	JUNCTION CREEK	MUNICIPALITY
VALLEY EAST TOWN HAMNER,VAL-CARON,VAL-THERESE	CONVENTIONAL SECONDARY PHOSPHORUS REMOVAL	2.500 (11.365)	VERMILLION RIVER	MUNICIPALITY
WALDEN TOWN LIVELY WPCP	EXTENDED AERATION	.350 (1.591)	MEATBIRD CREEK	MUNICIPALITY
TOTAL CAPACITY		20.234 (91.984)		

Ministry of the Environment
Ontario

Northwestern Region

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435 James St. S.
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Northwestern Region

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Ministry of the Environment

Ontario



REGIONAL OFFICE
THUNDER BAY
435 James St. S.
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DISTRICT OFFICE
Kenora
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NORTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<----------** CAPACITY MIGD ($1000M^3$)---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
PRIMARY	1	4	5	2.000	24.780	26.780 (121.742)
CONVENTIONAL SECONDARY	0	1	1	.000	.500	.500 (2.273)
CONTACT STABILIZATION	3	2	5	1.165	6.500	7.665 (34.845)
EXTENDED AERATION	7	1	8	3.206	.120	3.326 (15.120)
CONVENTIONAL LAGOON CONTINUOUS	1	1	2	.110	.300	.410 (1.864)
CONVENTIONAL LAGOON SEASONAL	2	0	2	.120	.000	.120 (.546)
**** TOTALS ****	14	9	23	6.601	32.200	38.801
				(30.008)	(146.381)	(176.389)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$:THOUSANDS OF CUBIC METRES

CONVERSION FACTOR
1 MGD = 4.546 $1000M^3$

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ATIKOKAN TOWNSHIP ATIKOKAN W P C P	EXTENDED AERATION	.898 (4.082)	ATIKOKAN RIVER	MINISTRY
ATWOOD TOWNSHIP RAINY RIVER LAGOON	CONVENTIONAL LAGOON SEASONAL	.060 (.273)	RAINY RIVER	MINISTRY
BAIRD TOWNSHIP MADSEN COMMUNITY WPCP	COMMUNAL SEPTIC TANK	.060 (.273)	SNIB LAKE	MINISTRY
BALMERTOWN TOWNSHIP BALMERTOWN WPCP (START IN 81)	EXTENDED AERATION	.270 (1.227)	BALMER CREEK	MINISTRY
BALMERTOWN IMPROVEMENT DISTRICT COCHENOUR COMMUNITY WPCP (5 TANKS)	COMMUNAL SEPTIC TANK	.030 (.136)	RED LAKE	MUNICIPALITY
BEARDMORE TOWNSHIP BEARDMORE *(EXFILTRATION LAGOON)	CONVENTIONAL LAGOON	.110 (.500)	*(BLACKWATER RIVER)	MINISTRY
DRYDEN TOWN DRYDEN W P C P	CONTACT STABILIZATION	1.500 (6.819)	WABIGOON RIVER	MUNICIPALITY
EAR FALLS TOWNSHIP EAR FALLS W P C P	EXTENDED AERATION	.630 (2.864)	ENGLISH RIVER	MINISTRY
EMO TOWNSHIP EMO LAGOON (EXP TO .1 MG IN 84)	CONVENTIONAL LAGOON SEASONAL	.060 (.273)	RAINY RIVER	MINISTRY
FORT FRANCES TOWN FORT FRANCES WPCP	PRIMARY	2.000 (9.092)	RAINY RIVER	MINISTRY
GERALDTON TOWN GERALDTON W P C P	EXTENDED AERATION CONTACT STABILIZATION	.400 (1.818)	LAKE KENOGAMISIS	MINISTRY
IGNACE TOWNSHIP IGNACE W P C P	EXTENDED AERATION CONTACT STABILIZATION PHOSPHORUS REMOVAL	.558 (2.537)	AGIMAC CREEK	MINISTRY

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
KENORA TOWN KENORA WPCP (EXP TO 5 MG IN 80)	CONTACT STABILIZATION	5.000 (22.730)	WINNIPEG RIVER	MUNICIPALITY
LONGLAC TOWNSHIP LONGLAC W P C P	CONTACT STABILIZATION EXTENDED AERATION	.540 (2.455)	SUICIDE RIVER	MINISTRY
MANITOUWADGE TOWNSHIP MANITOUWADGE PLANT	COMMUNAL SEPTIC TANK	.400 (1.818)	RUDDER LAKE	MUNICIPALITY
MARATHON TOWNSHIP MARATHON WPCP (NEW PLANT IN 82)	PRIMARY	.140 (.636)	LAKE SUPERIOR	MUNICIPALITY
NAKINA TOWNSHIP NAKINA W P C P (START NOV 80)	CONTACT STABILIZATION	.375 (1.705)	BALKAM CREEK	MINISTRY
NIPIGON TOWNSHIP NIPIGON WPCP	PRIMARY	.360 (1.637)	NIPIGON RIVER	MUNICIPALITY
PICKLE LAKE TOWNSHIP PICKLE LAKE WPCP	EXTENDED AERATION	.200 (.909)	KAWINOGANS RIVER	MINISTRY
RED LAKE TOWNSHIP RED LAKE W P C P	CONTACT STABILIZATION EXTENDED AERATION	.250 (1.137)	HOWEY BAY (RED LAKE)	MINISTRY
RED ROCK TOWNSHIP RED ROCK WPCP	PRIMARY	.280 (1.273)	NIPIGON BAY	MUNICIPALITY
SCHREIBER TOWNSHIP SCHREIBER W P C P	EXTENDED AERATION	.250 (1.137)	CREEK TO L.SUPERIOR	MINISTRY
SIOUX LOOKOUT TOWN SIOUX LOOKOUT WPCP	CONVENTIONAL SECONDARY	.500 (2.273)	PELICAN LAKE	MUNICIPALITY
TERRACE BAY TOWNSHIP TERRACE BAY EXFIL LAGOON *(NO DISCHARGE)	CONVENTIONAL LAGOON CONTINUOUS	.300 (1.364)	*(EXFILTRATE TO SUPERIOR	MUNICIPALITY

NORTHWESTERN REGION

MUNICIPALITY	TREATMENT TYPE	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
TERRACE BAY TOWNSHIP TERRACE BAY (STP + EXFILTRATE LAGOON)	EXTENDED AERATION CONVENTIONAL LAGOON	.120 (.546)	(LAKE SUPERIOR)	MUNICIPALITY
THUNDER BAY CITY THUNDER BAY WPCP	PRIMARY PHOSPHORUS REMOVAL	24.000 (109.104)	KAMINISTIKWIA RIVER	MUNICIPALITY

MUNICIPAL WATER

PART -- II

1981

PART II -- MUNICIPAL WATER TREATMENT

Water, in terms of quality and quantity varies widely throughout the Province and as may be expected, the quality and intended use of the supply dictates the degree and type of treatment necessary.

Groundwater is characteristically cool, generally requires little treatment and suffers only slight temperature variations, hence, it is often the first to be investigated as a source of supply. While hardness is often a concern with groundwater the main problem is its extraction in sufficient quantity to meet our increasing growth patterns. Quantity is not usually a problem with surface sources but treatment becomes the rule rather than the exception. The removal of turbidity, colour, tastes, odours, chemical substances and micro-organisms that would constitute a health hazard is achieved through various treatment methods. Sometimes only a few of these undesirable characteristics are present in a water supply; consequently, the method of treatment is selected only after the results of careful physical, bacteriological and chemical analyses are known.

All surface sources of supply are disinfected by chlorination to kill pathogenic bacteria (disease organisms). Groundwater is chlorinated where disease organisms are present or where a potential danger of contamination exists.

The object of treatment is to use the most effective processes and equipment to remove the impurities found in a particular source, for this reason all or any of the following methods or items may be employed in a plant.

Screening (Physical Treatment)

The raw or untreated water passes through coarse and fine screens which removes the larger particules.

Algae Removal by Microstraining (Physical Treatment)

If algae is a problem in the raw water then it may be passed through a microstrainer which is a rotating drum covered with a finely woven blanket of stainless steel or cloth fabric. The blanket opening size is chosen based on the type of algae encountered and as the water passes through the microstrainer, the algae are enmeshed on the blanket. Some units are equipped with an ultra-violet light attachment which acts as a germicidal agent on the water and reduces or controls the growths on the fabric. The microstrainer is backwashed or flushed with water to remove the accumulated algae and clean the blanket.

Color, Turbidity and Bacteria Removal by Coagulation and Flocculation

Chemical coagulants such as alum or lime are added and thoroughly mixed with the water. After a short period a stickly gelatinous precipitate is formed which absorbs colour and entangles mud, bacteria and suspended matter. The gelatinous mass is agitated and builds up into clumps or flocs which grow large and finally become heavy enough with impurities to be removed from the water by settling. The water is reasonably clear after this procedure and the settled material is removed for suitable disposal.

Turbidity and Bacteria Removal by Filtration (Physical Treatment)

After coagulation and flocculation the water is passed through a filter or if water quality permits, the raw water may be ready for filtration after screening and/or micro-straining.

The gravity filter and the pressure filter are the two main types employed to remove minute impurities from the water. The gravity filter is an open rectanglular tank, equipped with a straining system, (media) which generally consists of graded sand and gravel or possibly anthracite (a type of hard coal) and an underdrain system where the filtered water is collected. As the water passes through the filter the impurities are transferred or trapped in the media. Cleaning is effected by reversing the flow in the filter (backwashing). The pressure filter employs the same principles, the difference being that the water is forced under pressure through the media in a closed vessel.

Disinfection by Chlorination

Before the water is delivered to the consumer or storage facility it is essential that pathogenic bacteria or disease producing organisms are killed. Chlorination achieves this end provided that the turbidity is at a sufficiently low level and adequate contact is provided.

PROVINCIAL SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	17	139	156	8.714	163.557	172.271 (783.144)
GROUND SOURCE PHYSCL TRTMT	1	15	16	.115	22.225	22.340 (101.558)
GROUND SOURCE CHEM TRTMT	10	43	53	3.522	64.979	68.501 (311.406)
GROUND SOURCE PHYSC & CHEM TRTMN	5	8	13	.439	16.099	16.538 (75.182)
SURFC SOURCE	9	56	65	6.263	194.375	200.638 (912.100)
SURFC PHYSCL TREATMENT	4	14	18	22.345	28.723	51.068 (232.155)
SURFC SOURCE CHEM TREATMENT	2	1	3	3.180	3.000	6.180 (28.094)
SURFC SOURCE PHYSC & CHEM TRTMT	41	78	119	270.980	1,309.776	1,580.756 (7,186.117)
TOTALS	89	354	443	315.558 (1,434.527)	1,802.734 (8,197.229)	2,118.292 (9,629.755)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$: THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 $1000M^3$

Ministry of the Environment
Ontario

Southwestern Region

(1)

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Ministry
of the
Environment
Ontario

Southwestern Region

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SOUTHWESTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	3	36	39	1.598	31.731	33.329 (151.514)
GROUND SOURCE PHYSCL TRTMT	0	4	4	.000	7.317	7.317 (33.263)
GROUND SOURCE CHEM TRTMT	5	8	13	.950	5.214	6.164 (28.022)
GROUND SOURCE PHYS & CHEM TRTMT	1	3	4	.063	10.588	10.651 (48.419)
SURFC SOURCE	0	3	3	.000	4.124	4.124 (18.748)
SURFC SOURCE PHYSCL TREATMT	1	1	2	.840	2.160	3.000 (13.638)
SURFC SOURCE CHEM TRTMT	1	1	2	.720	3.000	3.720 (16.911)
SURFC SOURCE PHYS & CHEM TRTMT	13	12	25	119.016	88.495	207.511 (943.345)
**** TOTALS ****	24	68	92	123.187 (560.008)	152.629 (693.851)	275.816 (1,253.860)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$:THOUSANDS OF CUBIC METRES

CONVERSION FACTOR: 3

1 MGD = 4.546 $1000M^3$

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($10^3 M^3$)	WATERCOURSE	OPERATED BY
AILSA CRAIG VILLAGE AILSA CRAIG SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON WSS)	MINISTRY
ALVINSTON VILLAGE ALVINSTON WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.166 (.755)	SYDENHAM RIVER	MINISTRY
AMHERSTBURG TOWN AMHERSTBURG AREA WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.000 (18.184)	DETROIT RIVER	MINISTRY
ANDERDON TOWNSHIP ANDERDON SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(AMHERSTBURG AREA WSS)	MINISTRY
ARKONA VILLAGE ARKONA WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.144 (.655)		MINISTRY
AYLMER TOWN AYLMER WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.055 (4.796)		MUNICIPALITY
BAYHAM TOWNSHIP BAYHAM SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(ELGIN AREA W S S)	MINISTRY
BELLE RIVER TOWN BELLE RIVER W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.000 (18.184)	LAKE ST.CLAIR	MINISTRY
BELMONT VILLAGE BELMONT WELL SUPPLY	GROUND SOURCE	.396 (1.800)		MUNICIPALITY
BIDDULPH TOWNSHIP GRANTON POLICE VILLAGE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.122 (.555)		MINISTRY
BLANDFORD-BLENHEIM TOWNSHIP PLATTSVILLE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.216 (.982)		MINISTRY
BLENHEIM TOWN BLENHEIM AREA WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.000 (4.546)	LAKE ERIE	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BLYTH VILLAGE BLYTH WELL SUPPLY	GROUND SOURCE	.216 (.982)		MUNICIPALITY
BOSANQUET TOWNSHIP BOSANQUET SUPPLY (L. HURON WSS)	(WATER IS SUPPLIED BY)		(LAKE HURON W S S)	MINISTRY
BRUSSELS VILLAGE BRUSSELS WELL SUPPLY	GROUND SOURCE	.479 (2.178)		MUNICIPALITY
CARADOC TOWNSHIP MT.BRYDGES-CAMPBELVALE PINERIDGE SUPPLY	GROUND SOURCE CHLORINATION	.590 (2.682)		MINISTRY
CARADOC - EKFRID TOWNSHIP MELBOURNE WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.063 (.286)		MINISTRY
CHATHAM CITY KENT COUNTY WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	10.000 (45.460)	LAKE ERIE	MUNICIPALITY
CHESLEY TOWN CHESLEY WELL SUPPLY	GROUND SOURCE	.828 (3.764)		MUNICIPALITY
CLINTON TOWN CLINTON WELL SUPPLY	GROUND SOURCE CHLORINATION	.720 (3.273)		MUNICIPALITY
COLCHESTER NORTH TOWNSHIP MC GREGOR HAMLET SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(AMHERSTBURG AREA W S S)	MINISTRY
COLCHESTER SOUTH TOWNSHIP COLCHESTER HAMLET SUPPLY	(WATER IS SUPPLIED BY)		(HARROW-COLCHESTER S.WSS	MINISTRY
DOVER TOWNSHIP MITCHELL'S BAY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.288 (1.309)	LAKE ST CLAIR	MINISTRY
DOVER TOWNSHIP PAINCOURT WELL SUPPLY	GROUND SOURCE CHLORINATION	.020 (.091)		MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
DOWNIE TOWNSHIP ST. PAULS WELL SUPPLY	GROUND SOURCE	.059 (.268)		MUNICIPALITY
DRESDEN TOWN DRESDEN WTP	SURFC SOURCE CHEM TREATMENT CHLORINATION	.720 (3.273)	SYDENHAM RIVER	MINISTRY
DUNDALK VILLAGE DUNDALK WELL SUPPLY	GROUND SOURCE CHLORINATION	.432 (1.964)		MUNICIPALITY
DURHAM TOWN DURHAM WELL SUPPLY	GROUND SOURCE	.763 (3.469)		MUNICIPALITY
DUTTON VILLAGE DUTTON SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(WEST LORNE WATER SUPPLY	MUNICIPALITY
EAST WILLIAMS TOWNSHIP NAIRN SUPPLY	(WATER IS SUPPLIED BY)	.000 (.000)	(LAKE HURON WSS)	MINISTRY
EAST ZORRA-TAVISTOCK TOWNSHIP TAVISTOCK WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.043 (4.741)		MUNICIPALITY
ELLICE TOWNSHIP BRUNNER WELL SUPPLY	GROUND SOURCE	.025 (.114)		MUNICIPALITY
ELMA TOWNSHIP ATWOOD WELL SUPPLY	GROUND SOURCE	.057 (.259)		MUNICIPALITY
ENNISKILLEN TOWNSHIP ENNISKILLEN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(PETROLIA W S S)	MUNICIPALITY
ERIE BEACH VILLAGE ERIE BEACH SUPPLY	(WATER IS SUPPLIED BY)	.001 (.005)	(ERIEAU-ERIE BEACH WSS)	MINISTRY
ERIE BEACH AND ERIEAU VILLAGE ERIEAU-ERIE BEACH WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.572 (2.600)	LAKE ERIE	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ESSEX TOWN ESSEX SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(UNION-ESSEX WSS)	MUNICIPALITY
EXETER TOWN EXETER WELL SUPPLY	GROUND SOURCE CHLORINATION	1.680 (7.637)		MUNICIPALITY
FOREST TOWN FOREST WELL SUPPLY	GROUND SOURCE CHLORINATION	.300 (1.364)		MUNICIPALITY
GLENCOE VILLAGE GLENCOE (WELLS ARE ON STANDBY)	(WATER IS SUPPLIED BY) GROUND SOURCE CHLORINATION	.091 (.414)	(WEST LORNE WTP)	MUNICIPALITY
GODERICH TOWN GODERICH WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.640 (12.001)	LAKE HURON	MINISTRY
GOSFIELD NORTH TOWNSHIP GOSFIELD SUPPLY	(WATER IS SUPPLIED BY)		(UNION ESSEX W S)	MINISTRY
GOSFIELD SOUTH TOWNSHIP UNION WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	16.000 (72.736)	LAKE ERIE	MINISTRY
GRAND BEND VILLAGE GRAND BEND SUPPLY	(WATER IS SUPPLIED BY)	.001 (.005)	(LAKE HURON W S S)	MUNICIPALITY
HANOVER TOWN HANOVER PLANT	SURFC SOURCE GROUND SOURCE CHLORINATION	2.590 (11.774)	RUHL LAKE	MUNICIPALITY
HARROW TOWN HARROW-COLCHESTER S. WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.250 (10.229)	LAKE ERIE	MINISTRY
HARWICH TOWNSHIP HARWICH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(BLENHEIM AREA W S S)	MINISTRY
HARWICH TOWNSHIP SHREWSBURY - RAGLAN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	.001 (.005)	(BLENHEIM AREA W S S)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
HENSALL VILLAGE HENSALL WELL SUPPLY	GROUND SOURCE	.432 (1.964)		MUNICIPALITY
INGERSOLL TOWN INGERSOLL WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	3.500 (15.911)		MUNICIPALITY
KINCARDINE TOWN KINCARDINE W T P (UC DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.540 (11.547)	LAKE HURON	MUNICIPALITY
KINGSVILLE TOWN KINGSVILLE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(UNION-ESSEX WSS)	MUNICIPALITY
LEAMINGTON TOWN LEAMINGTON SUPPLY	(WATER IS SUPPLIED BY)		(UNION-ESSEX WSS)	MUNICIPALITY
LIONS HEAD VILLAGE LIONS HEAD PLANT	SURFC SOURCE CHLORINATION	.484 (2.200)	GEORGIAN BAY	MUNICIPALITY
LISTOWEL TOWN LISTOWELL WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	1.800 (8.183)		MUNICIPALITY
LOBO TOWNSHIP KILWORTH HEIGHTS WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.180 (.818)		MINISTRY
LONDON TOWNSHIP DENFIELD HAMLET SUPPLY	(WATER IS SUPPLIED BY)		(LAKE HURON W S S)	MINISTRY
LONDON CITY LONDON CITY SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION		(LAKE HURON WSS)	MUNICIPALITY
LONDON TOWNSHIP ILDERTON P.V. SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(LAKE HURON WSS)	MUNICIPALITY
LONDON TOWNSHIP BIRR WATER SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION		(LAKE HURON WSS)	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
LUCAN VILLAGE LUCAN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.300 (1.364)		MUNICIPALITY
LUCKNOW VILLAGE LUCKNOW WELL SUPPLY	GROUND SOURCE	.684 (3.109)		MUNICIPALITY
MAIDSTONE TOWNSHIP WOODSLEA SUPPLY	(WATER IS SUPPLIED BY)	(	(UNION ESSEX W S S)	MUNICIPALITY
MALAHIDE TOWNSHIP MALAHIDE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(ELGIN AREA W S S)	MINISTRY
MALDEN TOWNSHIP MALDEN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(AMHERSTBURG AREA W S S)	MINISTRY
MARKDALE VILLAGE MARKDALE WELL SUPPLY	GROUND SOURCE CHLORINATION	.864 (3.928)		MINISTRY
MC GILLIVRAY TOWNSHIP MC GILLIVRAY SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY
MEAFORD TOWN MEAFORD WTP (DIRECT FILT UC)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	2.160 (9.819)	GEORGIAN BAY	MUNICIPALITY
MERSEA TOWNSHIP MERSEA SUPPLY	(WATER IS SUPPLIED BY)		(UNION ESSEX W S S)	MUNICIPALITY
MILDMAY VILLAGE MILDMAY WELL SUPPLY	GROUND SOURCE	.360 (1.637)		MUNICIPALITY
MILVERTON VILLAGE MILVERTON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.315 (1.432)		MUNICIPALITY
MITCHELL TOWN MITCHELL WELL SUPPLY (FILTRATION)	GROUND SOURCE PHYSCL TRTMT	1.513 (6.878)		MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
MOORE TOWNSHIP CORUNNA POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY WSS)	MINISTRY
MOORE TOWNSHIP MOORETOWN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY W S S)	MINISTRY
MOORE TOWNSHIP COURTRIGHT SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY W S S)	MINISTRY
MOORE TOWNSHIP BRIGDEN P. V. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(LAMBTON COUNTY WSS)	MINISTRY
NORTH DORCHESTER TOWNSHIP DORCHESTER PV WELL SUPPLY	GROUND SOURCE CHLORINATION	.490 (2.228)		MUNICIPALITY
NORWICH TOWNSHIP SPRINGFORD HAMLET WELL SUPPLY	GROUND SOURCE	.082 (.373)		MUNICIPALITY
NORWICH TOWNSHIP OTTERVILLE PV WELL SUPPLY	GROUND SOURCE	.187 (.850)		MUNICIPALITY
NORWICH TOWNSHIP NORWICH WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.360 (1.637)		MUNICIPALITY
OIL SPRINGS VILLAGE OIL SPRINGS WELL SUPPLY	GROUND SOURCE CHLORINATION	.064 (.291)		MUNICIPALITY
OWEN SOUND CITY SPRING WELL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	1.200 (5.455)		MUNICIPALITY
OWEN SOUND CITY RICHARD H.NEATH WTP (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	6.600 (30.004)	GEORGIAN BAY	MUNICIPALITY
PAISLEY VILLAGE PAISLEY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.342 (1.555)	TEESWATER RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
PARKHILL TOWN PARKHILL SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION	(	(LAKE HURON WSS)	MUNICIPALITY
PETROLIA TOWN PETROLIA W S S (SEDIMENTATION ONLY	SURFC SOURCE CHEM TREATMENT CHLORINATION FLUORIDATION	3.000 (13.638)	BRIGHTS GROVE (L HURON)	MUNICIPALITY
PLYMPTON TOWNSHIP PLYMPTON WELL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA W S S)	MUNICIPALITY
POINT EDWARD VILLAGE POINT EDWARD SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY WSS)	MINISTRY
PORT BURWELL VILLAGE PORT BURWELL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA WSS)	MINISTRY
PORT ELGIN TOWN PORT ELGIN W T P (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.915 (8.706)	LAKE HURON	MUNICIPALITY
PORT STANLEY VILLAGE PORT STANLEY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.600 (2.728)	LAKE ERIE	MUNICIPALITY
RALEIGH TOWNSHIP RALEIGH SUPPLY (ONT HOS CEDAR SPRINGS)	(WATER IS SUPPLIED BY) FLUORIDATION	(	(BLENHEIM AREA W S S)	MINISTRY
RALEIGH TOWNSHIP KENT COUNTY W S S (INTAKE ONLY)	(WATER IS SUPPLIED BY) CHLORINATION	15.000 (68.190)	LAKE ERIE	MINISTRY
RIDGETOWN TOWN RIGETOWN WELL SUPPLY	GROUND SOURCE CHLORINATION	.432 (1.964)		MUNICIPALITY
RIPLEY VILLAGE RIPLEY WELL SUPPLY	GROUND SOURCE CHLORINATION	.270 (1.227)		MUNICIPALITY
ROCHESTER TOWNSHIP ROCHESTER SUPPLY	(WATER IS SUPPLIED BY)	(	(UNION ESSEX W S S)	MINISTRY

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
RODNEY VILLAGE RODNEY SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WEST LORNE WATER SUPPLY	MUNICIPALITY
SANDWICH SOUTH TOWNSHIP SANDWICH SOUTH SUPPLY	(WATER IS SUPPLIED BY)	(	(UNION-ESSEX W S S)	MINISTRY
SANDWICH SOUTH TOWNSHIP SANDWICH S. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR AREA W S S)	MUNICIPALITY
SANDWICH WEST TOWNSHIP SANDWICH WEST TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR AREA W S S)	MUNICIPALITY
SARNIA CITY LAMBTON COUNTY WATER SUPPLY SYSTEM (D-F)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	40.000 (181.840)	LAKE HURON	MINISTRY
SARNIA TOWNSHIP SARNIA SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY W S S)	MINISTRY
SARNIA TOWNSHIP BRIGHTS GROVE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA WSS)	MUNICIPALITY
SEAFORTH TOWN SEAFORTH WELL SUPPLY	GROUND SOURCE CHLORINATION	1.100 (5.001)		MUNICIPALITY
SOMBRA TOWNSHIP PORT LAMBTON P V SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY WSS)	MUNICIPALITY
SOMBRA TOWNSHIP SOMBRA P V SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(LAMBTON COUNTY WSS)	MUNICIPALITY
SOUTH-WEST OXFORD TOWNSHIP MT ELGIN HAMLET WELL SUPPLY	GROUND SOURCE CHLORINATION	.057 (.259)		MUNICIPALITY
SOUTH-WEST OXFORD TOWNSHIP BROWNSVILLE HAMLET WELL SUPPLY	GROUND SOURCE	.062 (.282)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SOUTH-WEST OXFORD TOWNSHIP BEACHVILLE-LOWEVILLE SUBDIVISION SUPPLY	GROUND SOURCE CHLORINATION	.050 (.227)		MUNICIPALITY
SOUTHAMPTON TOWN SOUTHAMPTON WTP (D-F)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.840 (3.819)	LAKE HURON	MINISTRY
SOUTHWOLD TOWNSHIP SOUTHWOLD SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA W S S)	MINISTRY
ST CLAIR BEACH VILLAGE ST CLAIR BEACH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR WATER SUPPLY)	MUNICIPALITY
ST MARYS SEPARATED TOWN ST. MARYS WELL SUPPLY	GROUND SOURCE CHLORINATION	2.304 (10.474)		MUNICIPALITY
ST THOMAS CITY ST. THOMAS SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA WSS)	MINISTRY
STEPHEN TOWNSHIP LAKE HURON WATER SUPPLY SYSTEM (D-F)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	37.000 (168.202)	LAKE HURON	MINISTRY
STEPHEN - HAY TOWNSHIP DASHWOOD SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY
STRATFORD CITY STRATFORD WELL SUPPLY (AER. + SOFTENING)	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	6.466 (29.394)		MUNICIPALITY
STRATHROY TOWN STRATHROY WELL SUPPLY	GROUND SOURCE	3.400 (15.456)		MUNICIPALITY
TARA VILLAGE TARA WELL SUPPLY	GROUND SOURCE CHLORINATION	.219 (.996)		MUNICIPALITY
TECUMSEH TOWN TECUMSEH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(WINDSOR WATER SUPPLY)	MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
TEESWATER VILLAGE TEESWATER WELL SUPPLY	GROUND SOURCE	.569 (2.587)		MUNICIPALITY
THAMESVILLE TOWN THAMESVILLE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.288 (1.309)		MINISTRY
THEDFORD VILLAGE THEDFORD WELL SUPPLY	GROUND SOURCE CHLORINATION	.144 (.655)		MINISTRY
THORNBURY TOWN THORNBURY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.100 (5.001)	GEORGIAN BAY	MINISTRY
TILBURY TOWN TILBURY W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.434 (6.519)	LAKE ST.CLAIR	MUNICIPALITY
TILBURY NORTH TOWNSHIP TILBURY NORTH W S S (STONEY POINT WTP)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.864 (3.928)	LAKE ST.CLAIR	MUNICIPALITY
TILBURY W. TOWNSHIP COMBER SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION	(	(TILBURY NORTH W S S)	MINISTRY
TILLSONBURG TOWN TILLSONBURG W T P	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	2.200 (10.001)		MUNICIPALITY
TIVERTON VILLAGE TIVERTON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.240 (1.091)		MUNICIPALITY
TUCKERSMITH TOWNSHIP VAN ASTRA SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION	.864 (3.928)	(CLINTON SUPPLY)	MINISTRY
TUCKERSMITH TOWNSHIP EGMONDVILLE WELL SUPPLY	GROUND SOURCE	.144 (.655)		MUNICIPALITY
VIENNA VILLAGE VIENNA SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(ELGIN AREA WSS)	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($10000M^3$)	WATERCOURSE	OPERATED BY
WALKERTON TOWN WALKERTON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.865 (8.478)		MUNICIPALITY
WALLACE TOWNSHIP GOWANSTOWN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.036 (.164)		MUNICIPALITY
WALLACEBURG TOWN WALLACEBURG W.T.P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.600 (11.820)	CHENAL ECARTE	MUNICIPALITY
WATFORD VILLAGE WATFORD SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA WSS)	MUNICIPALITY
WEST LORNE VILLAGE WEST LORNE WTP (ACT.CARBON)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.800 (3.637)	LAKE ERIE	MUNICIPALITY
WEST WILLIAMS TOWNSHIP WEST WILLIAMS SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY
WESTMINSTER TOWNSHIP WESTMINSTER SUPPLY	(WATER IS SUPPLIED BY)	(	(LAKE HURON W S S)	MINISTRY
WESTMINSTER TOWNSHIP LAMBETH POLICE VILLAGE WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	1.922 (8.737)		MUNICIPALITY
WHEATLEY VILLAGE WHEATLEY W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.800 (3.637)	LAKE ERIE	MUNICIPALITY
WIARTON TOWN WIARTON PLANT	SURFC SOURCE CHLORINATION	1.050 (4.773)	GEORGIAN BAY	MUNICIPALITY
WINDSOR CITY MAIN WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	60.000 (272.760)	DETROIT RIVER	MUNICIPALITY
WINGHAM TOWN WINGHAM WELL SUPPLY	GROUND SOURCE CHLORINATION	2.660 (12.092)		MUNICIPALITY

SOUTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WOODSTOCK CITY WOODSTOCK WELL SUPPLY	GROUND SOURCE CHLORINATION	10.500 (47.733)		MUNICIPALITY
WYOMING VILLAGE WYOMING SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(PETROLIA WSS)	MUNICIPALITY
YARMOUTH TOWNSHIP ELGIN AREA WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	10.000 (45.460)	LAKE ERIE	MINISTRY
ZORRA TOWNSHIP THAMESFORD P.V. WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.504 (2.291)		MUNICIPALITY
ZORRA TOWNSHIP EMBRO WELL SUPPLY	GROUND SOURCE	.173 (.786)		MUNICIPALITY
ZURICH VILLAGE ZURICH WELL SUPPLY	GROUND SOURCE CHLORINATION	.317 (1.441)		MUNICIPALITY

SOUTHWESTERN REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity	
13	185.486	MIGD
	(843.345	$1000M^3$)

AREA WATER SUPPLY SYSTEMS

SYSTEM: AMHERSTBURG-ANDERDON-MALDEN-WATER SUPPLY (AMHERSTBURG AREA W.S.S.)

Number of Plants: ONE Number of Municipalities Served: FOUR

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
ANDERDON TWP. (Near North End of Amherstburg)	Screening (power) Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	4.0 MIGD (18.2 1000M^3)	Amherstburg Town Colchester N. Twp. (McGregor) Malden Twp. Anderdon Twp.	Detroit River

SYSTEM: BLENHEIM AREA WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: THREE

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
BLENHEIM TOWN (Raleigh Twp. 4 mile west of Cedar Springs)	Screening (Manual) Coagulation Flocculation Sedimentation Filtration Fluoridation Chlorination	1.0 MIGD (4.6 1000M^3)	Harwich Twp. (Shrewsbury-Raglan) Raleigh Twp. (Ontario Hospital Cedar Springs) Blenheim Town	Lake Erie

SYSTEM: ELGIN AREA WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: SEVEN
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
YARMOUTH TOWNSHIP	Screening Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	10.0 MIGD (45.5 $1000M^3$)	Yarmouth Twp. Malahide Twp. Bayham Twp. Vienna Village St. Thomas City Port Burwell Village (Ford Motor Co. Ltd.) Southwold Twp.	Lake Erie

SYSTEM: ERIEAU/ERIE BEACH WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: THREE
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
ERIEAU VILLAGE	Screening Coagulation Flocculation Direct Filtration Chlorination	0.572 MIGD (2.600 $1000M^3$)	Erie Beach Village Erieau Village Harwich Twp.	Lake Erie

SYSTEM: HARROW-COLCHESTER SOUTH WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: TWO

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
HARROW TOWN	Microstraining Coagulation Flocculation Sedimentation Filtration Chlorination	2.25 MIGD (10.23 $1000M^3$)	Colchester S. Twp. -Colchester Hamlet Harrow Town	Lake Erie

SYSTEM: KENT COUNTY WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: TWO

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
*CHATHAM CITY (Intake is in Raleigh Twp.)	Screening Coagulation Flocculation Chlorination	10.0 MIGD (45.46 $1000M^3$)	Chatham City **(Erie Beach Village)	Lake Erie

*Note: Water from Lake Erie is pumped to Chatham's Treatment Plant which has a capacity of 10.0 MIGD

** Temporary Supply to Erie Beach. (Discontinued during 1981)

SYSTEM: LAKE HURON WATER SUPPLY

Number of Plants: ONE

Number of Municipalities Served: ELEVEN

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
STEPHEN TOWNSHIP (North of Grand Bend)	Screening Coagulation Flocculation (DIRECT) Filtration Chlorination	37.0 MIGD (168.2 $1000M^3$)	Ailsa Craig Village Bosanquet Twp. Grand Bend Village London Twp. (Birr) London City London Twp. (Ilderton) (Denfield) McGillvray Twp. Parkhill Town Stephen Twp. East Williams Twp. (Nairn) West Williams Twp. Westminister Twp.	Lake Huron

SYSTEM: LAMBTON COUNTY WATER SUPPLY

Number of Plants: ONE

Number of Municipalities Served: FIVE

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
SARNIA CITY	Coagulation Flocculation Direct Filtration Fluoridation Chlorination	40.0 MIGD (181.8 $1000M^3$)	Point Edward Village Sarnia City Sarnia Twp. Moore Twp. -Corunna - Mooretown -Courtright - Brigden Sombra Twp. -Sombra - Port Lambton	At confluence of St. Clair River and Lake Huron

SYSTEM: PETROLIA WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: SIX
Operated By: PETROLIA PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
SARNIA TOWNSHIP (Brights Grove)	Sedimentation Fluoridation Chlorination	3.0 MIGD (13.6 $1000M^3$)	Enniskillen Twp. Petrolia Town Plympton Twp. Sarnia Twp. - Brights Grove *Watford Village *Wyoming Village	Lake Huron

*Note: A Ministry operated pipeline connected to this system feeds the villages of Watford and Wyoming and portions of Plympton Twp.

SYSTEM: TILBURY NORTH WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: THREE
Operated By: TILBURY PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
TILBURY N. TOWNSHIP (Stoney Point WTP.)	Coagulation Flocculation Sedimentation Chlorination Filtration (pressure)	0.864 MIGD (3.928 $1000M^3$)	Tilbury N. *Tilbury W. Police Village of Comber	Lake St. Clair

*Note: A Ministry owned pipeline connected to the Treatment Plant feeds most of Tilbury North Township, the Police Village of Comber and portions of Tilbury West Township adjacent to and north of the Police Village.

SYSTEM: UNION-ESSEX WATER SUPPLY SYSTEM

Number of Plants: ONE Number of Municipalities Served: NINE

Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
GOSFIELD SOUTH TWP. (Union Plant)	Coarse Screening Microstraining Coagulation Flocculation Sedimentation Filtration Carbon Adsorption Chlorination	16.0 MIGD (72.75 1000M^3)	Gosfield South Twp. Essex Town Gosfield North Twp. Kingsville Town Mersea Twp. Rochester Twp. Maidstone Twp. Leamington Town *(HJ Heinz Co. Ltd.) Sandwich South Twp.	Lake Erie

*Note: H.J. Heinz Co. Ltd. is a major user of the system. Interconnections have been made for emergency use to the Belle River and Harrow-Colchester S. area water systems.

SYSTEM: WEST LORNE WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: THREE

Operated By: WEST LORNE PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
WEST LORNE VILLAGE	Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation (Activated Carbon)	0.80 MIGD (3.6 1000M^3)	West Lorne Village Dutton Village Rodney Village	Lake Erie

SYSTEM: WINDSOR WATER SUPPLY

Number of Plants: ONE

Number of Municipalities Served: FIVE

Operated By: WINDSOR PUBLIC UTILITIES COMMISSION

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
WINDSOR CITY (Windsor Main Plant)	Coagulation Flocculation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	60.0 MIGD (272.8 $1000M^3$)	Windsor City Sandwich South Sandwich West St. Clair Beach Tecumseh Town	Detroit River

Ministry of the Environment
Ontario

West Central Region

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REGIONAL OFFICE

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DISTRICT OFFICES

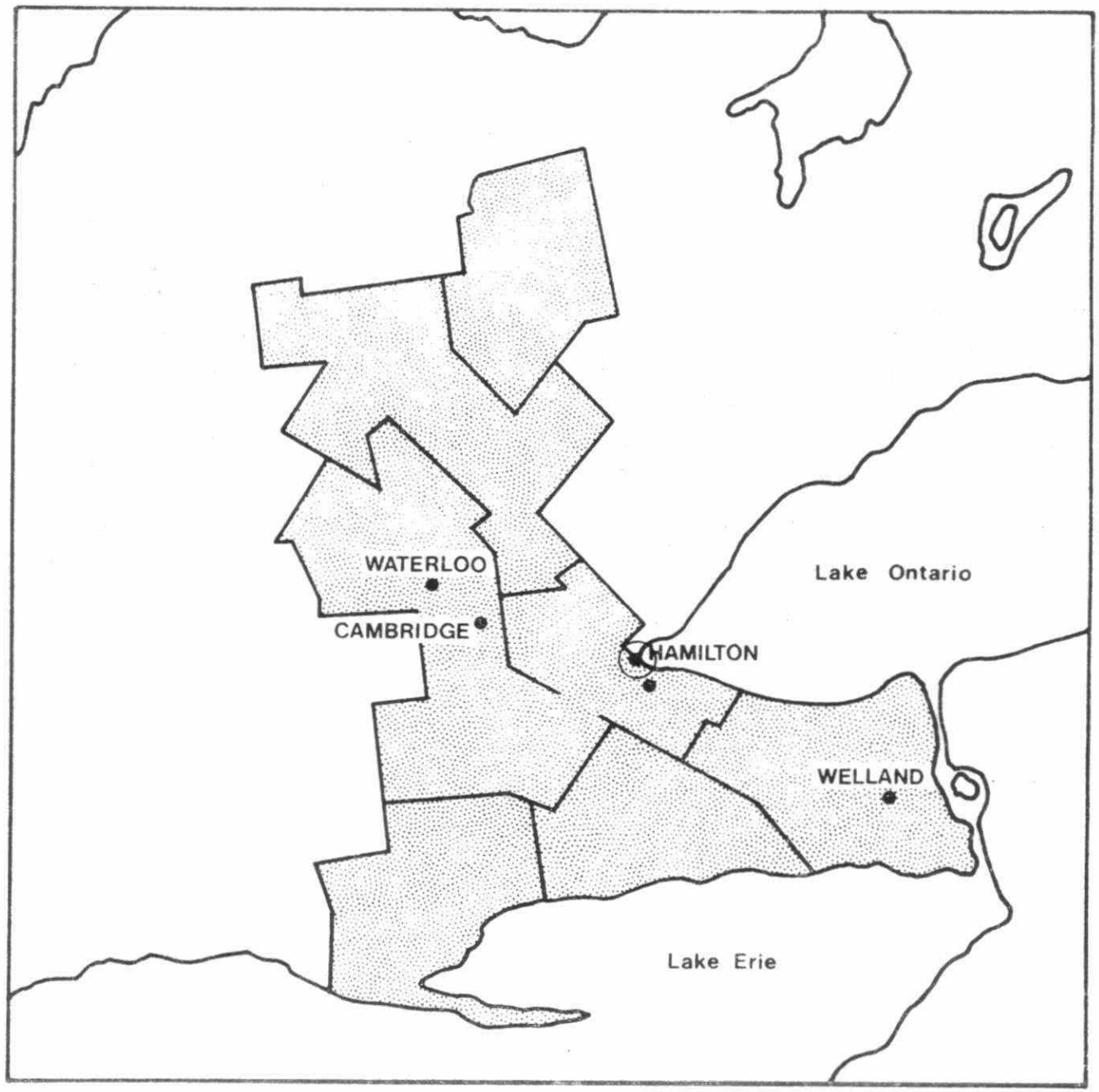
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Ministry of the Environment
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WEST CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD (10^3 1000M^3) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	0	30	30	.000	83.302	83.302 (378.691)
GROUND SOURCE PHYSCL TRTMT	0	2	2	.000	1.146	1.146 (5.210)
GROUND SOURCE CHEM TRTMT	1	8	9	.216	22.908	23.124 (105.122)
GROUND SOURCE PHYS & CHEM TRTMT	0	1	1	.000	.209	.209 (.950)
SURFC SOURCE PHYSCL TREATMT	1	5	6	20.500	16.268	36.768 (167.147)
SURFC SOURCE PHYS & CHEM TRTMT	1	13	14	3.500	282.170	285.670 (1,298.656)
**** TOTALS ****	3	59	62	24.216 (110.086)	406.003 (1,845.690)	430.219 (1,955.776)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
10^3 1000M^3 : THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 10^3 1000M^3

WEST CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (3 (1000M))	WATERCOURSE	OPERATED BY
ANCASTER TOWN ANCASTER WELLS (USED FOR 6 MOS IN 81)	GROUND SOURCE	2.074 (9.428)		MUNICIPALITY
ANCASTER TOWN ANCASTER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
ARTHUR VILLAGE ARTHUR WELL SUPPLY	GROUND SOURCE	.512 (2.328)		MUNICIPALITY
BRANTFORD TOWNSHIP AIRPORT WELL SUPPLY	GROUND SOURCE CHLORINATION	.504 (2.291)		MUNICIPALITY
BRANTFORD CITY BRANTFORD W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	25.000 (113.650)	GRAND RIVER	MUNICIPALITY
BRANTFORD TOWNSHIP TUTELA HEIGHTS WELL SUPPLY	GROUND SOURCE CHLORINATION	.288 (1.309)		MUNICIPALITY
CAMBRIDGE CITY CAMBRIDGE WELLS (GALT-HESPLER-PRESTON)	GROUND SOURCE CHLORINATION	16.560 (75.282)		MUNICIPALITY
CLIFFORD VILLAGE CLIFFORD WELL SUPPLY	GROUND SOURCE	.288 (1.309)		MUNICIPALITY
DELHI TOWNSHIP DELHI - SPRING SUPPLY	GROUND SOURCE CHLORINATION	.185 (.841)		MUNICIPALITY
DELHI TOWNSHIP DELHI-FILTRATION PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.500 (6.819)	NORTH CREEK	MUNICIPALITY
DELHI TOWNSHIP ST WILLIAMS POLICE VILLAGE WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.370 (1.682)		MUNICIPALITY
DELHI TOWNSHIP LAKEVIEW WTP (TURKEY POINT)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.250 (1.137)	LAKE ERIE	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
DUNDAS TOWN DUNDAS SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
DUNNVILLE TOWN *(FORMER DUNN WTP)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	20.500 (93.193)	LAKE ERIE	MINISTRY
DUNNVILLE TOWN DUNVILLE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION (WATER IS SUPPLIED BY)	3.500 (15.911)	*(FORMER DUNN TWP PLANT)	MUNICIPALITY
ELORA VILLAGE ELORA WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.668 (3.037)		MUNICIPALITY
ERAMOSA TOWNSHIP ROCKWOOD WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.170 (.773)		MUNICIPALITY
ERIN VILLAGE ERIN WELL SUPPLY	GROUND SOURCE	.540 (2.455)		MUNICIPALITY
FERGUS TOWN FERGUS WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.250 (5.683)		MUNICIPALITY
FLAMBOROUGH TOWNSHIP WATERDOWN SUPPLY (WELLS USED 7MO IN 81)	(WATER IS SUPPLIED BY) GROUND SOURCE	.092 (.418)	(BURLINGTON W S S)	MUNICIPALITY
FLAMBOROUGH TOWNSHIP FLAMBOROUGH HILLS WELL SUPPLY	GROUND SOURCE	.300 (1.364)		MUNICIPALITY
FLAMBOROUGH TOWNSHIP WILDAN ESTATES WELL SUPPLY	GROUND SOURCE	.150 (.682)		MUNICIPALITY
FLAMBOROUGH TOWNSHIP GREENSVILLE SUPPLY	GROUND SOURCE CHLORINATION	.040 (.182)		MUNICIPALITY
FORT ERIE TOWN FORMER TOWNSHIP OF BERTIE WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	9.000 (40.914)	LAKE ERIE	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
GRIMSBY TOWN GRIMSBY W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.600 (20.912)	LAKE ONTARIO	MUNICIPALITY
GUELPH CITY GUELPH (ARKEL-AREA) 22.9 MGD SUMMER CAP	GROUND SOURCE CHEM TRTMT CHLORINATION	19.900 (90.465)	RECHARGE FROM ERAMOSA R.	MUNICIPALITY
HALDIMAND TOWN HAGERSVILLE AREA (WELLS USED UNTIL DEC81	GROUND SOURCE CHLORINATION (WATER IS SUPPLIED BY)	.720 (3.273)	(CENTRAL HALD/NORF WSS)	MUNICIPALITY
HALDIMAND TOWN CAYUGA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.240 (1.091)	GRAND RIVER	MUNICIPALITY
HALDIMAND TOWN CALEDONIA WELL SUPPLY	GROUND SOURCE CHLORINATION	.684 (3.109)		MUNICIPALITY
HAMILTON CITY WOODWARD AVENUE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	150.000 (681.900)	LAKE ONTARIO	MUNICIPALITY
HARRISTON TOWN HARRISTON WELL SUPPLY	GROUND SOURCE	.864 (3.928)		MUNICIPALITY
KITCHENER CITY KITCHENER WELL FIELDS	GROUND SOURCE	22.000 (100.012)		MUNICIPALITY
KITCHENER CITY BRIDGEPORT SUPPLY	(WATER IS SUPPLIED BY)	(	(KITCHENER WATER SUPPLY)	MUNICIPALITY
LINCOLN TOWN VINELAND WTP (PHASE OUT END 81)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.630 (2.864)	LAKE ONTARIO	MUNICIPALITY
LINCOLN TOWN FORMER TOWN OF BEAMSVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.900 (4.091)	LAKE ONTARIO	MUNICIPALITY
MOUNT FOREST TOWN MT.FOREST WELL SUPPLY-EMERG CAP 2.379 MG	GROUND SOURCE CHLORINATION	1.947 (8.851)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
NANTICOKE CITY CENTRAL HALD/NORFOLK W S S (POTABLE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	3.500 (15.911)	LAKE ERIE	MINISTRY
NANTICOKE CITY TOWNSEND COMMUNITY SUPPLY	(WATER IS SUPPLIED BY)	(	(CENTRAL HALD/NORF WSS)	MINISTRY
NANTICOKE CITY JARVIS SUPPLY	(WATER IS SUPPLIED BY)	(	(CENTRAL HALD/NORF WSS)	MINISTRY
NANTICOKE CITY STELCO IND. PARK SUPPLY	(WATER IS SUPPLIED BY)	(	(CENTRAL HALD/NORF WSS)	MINISTRY
NANTICOKE CITY PORT DOVER-SPRING SUPPLY	GROUND SOURCE CHLORINATION (WATER IS SUPPLIED BY)	2.300 (10.456)	(PORT DOVER PLANT)	MUNICIPALITY
NANTICOKE CITY PORT DOVER WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.300 (10.456)	LAKE ERIE	MUNICIPALITY
NANTICOKE CITY WATERFORD WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.776 (3.528)		MUNICIPALITY
NIAGARA FALLS CITY NIAGARA FALLS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	32.000 (145.472)	NIAGARA RIVER	MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN VIRGIL/ST.DAVID'S WELL SUPPLY	GROUND SOURCE CHLORINATION	2.088 (9.492)		MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN FORMER TOWN OF NIAGARA WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.864 (3.928)	NIAGARA RIVER	MUNICIPALITY
NORFOLK TOWNSHIP COURTLAND WELL SUPPLY (FE. SEQ.)	GROUND SOURCE CHEM TRTMT CHLORINATION	.216 (.982)		MINISTRY
NORFOLK TOWNSHIP PORT ROWAN WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.500 (2.273)	LAKE ERIE	MUNICIPALITY

WEST CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
NORTH DUMPHRIES (P.V.AYR TOWNSHIP P. V. AYR (WELL SUPPLY)	GROUND SOURCE CHEM TRTMT CHLORINATION	.180 (.818)		MUNICIPALITY
ORANGEVILLE TOWN ORANGEVILLE WELL SUPPLY	GROUND SOURCE	4.770 (21.684)		MUNICIPALITY
PALMERSTON TOWN PALMERSTON WELL SUPPLY	GROUND SOURCE	.580 (2.637)		MUNICIPALITY
PARIS TOWN PARIS WELL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	3.341 (15.188)		MUNICIPALITY
PELHAM TOWN FORMER VILLAGE OF FONTHILL WELL SUPPLY	GROUND SOURCE CHLORINATION	1.000 (4.546)		MUNICIPALITY
PORT COLBORNE CITY PORT COLBORNE W.T.P. (NEW PLANT IN 84)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	6.000 (27.276)	WELLAND SHIP CANAL	MUNICIPALITY
SHELBURNE VILLAGE SHELBURNE WELL SUPPLY	GROUND SOURCE CHLORINATION	1.286 (5.846)		MUNICIPALITY
SIMCOE TOWN SIMCOE WELL SUPPLY	GROUND SOURCE CHLORINATION	3.350 (15.229)		MUNICIPALITY
SOUTH DUMFRIES TOWNSHIP ST. GEORGE WELL SUPPLY	GROUND SOURCE	1.800 (8.183)		MUNICIPALITY
ST CATHARINES CITY DE CEW (MAIN PLANT)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	42.000 (190.932)	WELLAND SHIP CANAL	MUNICIPALITY
STONEY CREEK TOWN STONEY CREEK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
THOROLD CITY FORMER HAMLET OF PORT ROBINSON WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.154 (.700)	WELLAND SHIP CANAL	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
THOROLD CITY THOROLD SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION		(ST CATHARINES DE CEW	MUNICIPALITY
WATERLOO CITY WATERLOO WELL FIELDS	GROUND SOURCE CHLORINATION FLUORIDATION	8.500 (38.641)		MUNICIPALITY
WELLAND CITY WELLAND W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	19.000 (86.374)	WELLAND SHIP CANAL	MUNICIPALITY
WELLESLEY TOWNSHIP LINDWOOD POLICE VILLAGE WELL SUPPLY	GROUND SOURCE	.031 (.141)		MUNICIPALITY
WELLESLEY TOWNSHIP WELLESLEY HTS. SUBDIVISION WELL SUPPLY	GROUND SOURCE CHLORINATION	.100 (.455)		MUNICIPALITY
WEST LINCOLN TOWNSHIP SMITHVILLE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.580 (2.637)		MUNICIPALITY
WILMOT TOWNSHIP NEW HAMBURG - BADEN WELL SUPPLY	GROUND SOURCE CHLORINATION	1.800 (8.183)		MUNICIPALITY
WILMOT (NEW DUNDEE) TOWNSHIP NEW DUNDEE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.080 (.364)		MUNICIPALITY
WOOLWICH TOWNSHIP ELMIRA WELL SUPPLY	GROUND SOURCE	4.700 (21.366)		MUNICIPALITY
WOOLWICH TOWNSHIP ST. JACOBS P V WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.209 (.950)		MUNICIPALITY
WOOLWICH TOWNSHIP MARY HILL SUBDIVISION WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.080 (.364)		MUNICIPALITY

West Central Region

WATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity
HALDIMAND-NORFOLK	
HAMILTON-WENTWORTH	
NIAGARA	
WATERLOO	
	Total

REGIONAL MUNICIPALITY OF HALDIMAND-NORFOLK

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
DELHI TOWNSHIP DELHI - SPRING SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.185 (.841)		MUNICIPALITY
DELHI TOWNSHIP DELHI-FILTRATION PLANT	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.500 (6.819)	NORTH CREEK	MUNICIPALITY
DELHI TOWNSHIP ST WILLIAMS POLICE VILLAGE WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.370 (1.682)		MUNICIPALITY
DELHI TOWNSHIP LAKEVIEW WTP (TURKEY POINT)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.250 (1.137)	LAKE ERIE	MUNICIPALITY
DUNNVILLE TOWN *(FORMER DUNN WTP)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	20.500 (93.193)	LAKE ERIE	MINISTRY
DUNNVILLE TOWN DUNVILLE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION (WATER IS SUPPLIED BY)	3.500 (15.911)	*(FORMER DUNN TWP PLANT)	MUNICIPALITY
HALDIMAND TOWN HAGERSVILLE AREA (WELLS USED UNTIL DEC81	GROUND SOURCE NO TREATMENT CHLORINATION (WATER IS SUPPLIED BY)	.720 (3.273)	(CENTRAL HALD/NORF WSS)	MUNICIPALITY
HALDIMAND TOWN CAYUGA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.240 (1.091)	GRAND RIVER	MUNICIPALITY
HALDIMAND TOWN CALEDONIA WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.684 (3.109)		MUNICIPALITY
NANTICOKE CITY CENTRAL HALD/NORFOLK W S S (POTABLE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	3.500 (15.911)	LAKE ERIE	MINISTRY
NANTICOKE CITY TOWNSEND COMMUNITY SUPPLY (ONT. H.C.)	(WATER IS SUPPLIED BY)		(CENTRAL HALD/NORF WSS)	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
NANTICOKE CITY JARVIS SUPPLY	(WATER IS SUPPLIED BY)	(	(CENTRAL HALD/NORF WSS)	MINISTRY
NANTICOKE CITY STELCO IND. PARK SUPPLY	(WATER IS SUPPLIED BY)	(	(CENTRAL HALD/NORF WSS)	MINISTRY
NANTICOKE CITY PORT DOVER-SPRING SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION (WATER IS SUPPLIED BY)	2.300 (10.456)	(PORT DOVER PLANT)	MUNICIPALITY
NANTICOKE CITY PORT DOVER WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.300 (10.456)	LAKE ERIE	MUNICIPALITY
NANTICOKE CITY WATERFORD WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.776 (3.528)		MUNICIPALITY
NORFOLK TOWNSHIP COURTLAND WELL SUPPLY (FE. SEQ.)	GROUND SOURCE CHEM TRTMT CHLORINATION	.216 (.982)		MINISTRY
NORFOLK TOWNSHIP PORT ROWAN WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.500 (2.273)	LAKE ERIE	MUNICIPALITY
SIMCOE TOWN SIMCOE WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	3.350 (15.229)		MUNICIPALITY
TOTAL CAPACITY		40.894 (185.904)		

REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
ANCASTER TOWN ANCASTER WELLS (USED FOR 6 MOS IN 81)	GROUND SOURCE NO TREATMENT	2.074 (9.428)		MUNICIPALITY
ANCASTER TOWN ANCASTER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
DUNDAS TOWN DUNDAS SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
FLAMBOROUGH TOWNSHIP WATERDOWN SUPPLY (WELLS USED 7MO IN 81)	(WATER IS SUPPLIED BY) GROUND SOURCE	.092 (.418)	(BURLINGTON W S S)	MUNICIPALITY
FLAMBOROUGH TOWNSHIP FLAMBOROUGH HILLS WELL SUPPLY	GROUND SOURCE NO TREATMENT	.300 (1.364)		MUNICIPALITY
FLAMBOROUGH TOWNSHIP WILDAN ESTATES WELL SUPPLY	GROUND SOURCE NO TREATMENT	.150 (.682)		MUNICIPALITY
FLAMBOROUGH TOWNSHIP GREENSVILLE SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.040 (.182)		MUNICIPALITY
HAMILTON CITY WOODWARD AVENUE W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	150.000 (681.900)	LAKE ONTARIO	MUNICIPALITY
STONEY CREEK TOWN STONEY CREEK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(HAMILTON WATER SUPPLY)	MUNICIPALITY
TOTAL CAPACITY		152.656 (693.974)		

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
FORT ERIE TOWN FORMER TOWNSHIP OF BERTIE WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	9.000 (40.914)	LAKE ERIE	MUNICIPALITY
GRIMSBY TOWN GRIMSBY W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.600 (20.912)	LAKE ONTARIO	MUNICIPALITY
LINCOLN TOWN VINELAND WTP (PHASE OUT END 81)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.630 (2.864)	LAKE ONTARIO	MUNICIPALITY
LINCOLN TOWN FORMER TOWN OF BEAMSVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.900 (4.091)	LAKE ONTARIO	MUNICIPALITY
NIAGARA FALLS CITY NIAGARA FALLS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	32.000 (145.472)	NIAGARA RIVER	MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN VIRGIL/ST.DAVID'S WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	2.088 (9.492)		MUNICIPALITY
NIAGARA-ON-THE-LAKE TOWN FORMER TOWN OF NIAGARA WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.864 (3.928)	NIAGARA RIVER	MUNICIPALITY
PELHAM TOWN FORMER VILLAGE OF FONTHILL WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	1.000 (4.546)		MUNICIPALITY
PORT COLBORNE CITY PORT COLBORNE W.T.P. (NEW PLANT IN 84)	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	6.000 (27.276)	WELLAND SHIP CANAL	MUNICIPALITY
ST CATHARINES CITY DE CEW (MAIN PLANT)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	42.000 (190.932)	WELLAND SHIP CANAL	MUNICIPALITY
THOROLD CITY FORMER HAMLET OF PORT ROBINSON WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.154 (.700)	WELLAND SHIP CANAL	MUNICIPALITY

REGIONAL MUNICIPALITY OF NIAGARA

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
THOROLD CITY THOROLD SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(ST CATHARINES DE CEW	MUNICIPALITY
WELLAND CITY WELLAND W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	19.000 (86.374)	WELLAND SHIP CANAL	MUNICIPALITY
WEST LINCOLN TOWNSHIP SMITHVILLE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.580 (2.637)		MUNICIPALITY
TOTAL CAPACITY		118.816 (540.138)		

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CAMBRIDGE CITY CAMBRIDGE WELLS (GALT-HESPLER-PRESTON)	GROUND SOURCE NO TREATMENT CHLORINATION	16.560 (75.282)		MUNICIPALITY
KITCHENER CITY KITCHENER WELL FIELDS	GROUND SOURCE NO TREATMENT	22.000 (100.012)		MUNICIPALITY
KITCHENER CITY BRIDGEPORT SUPPLY	(WATER IS SUPPLIED BY)	0. (	(KITCHENER WATER SUPPLY)	MUNICIPALITY
NORTH DUMPHRIES (P.V.AYR TOWNSHIP P. V. AYR (WELL SUPPLY)	GROUND SOURCE CHEM TRTMT CHLORINATION	.180 (.818)		MUNICIPALITY
WATERLOO CITY WATERLOO WELL FIELDS	GROUND SOURCE NO TREATMENT CHLORINATION FLUORIDATION	8.500 (38.641)		MUNICIPALITY
WELLESLEY TOWNSHIP LINDWOOD POLICE VILLAGE WELL SUPPLY	GROUND SOURCE NO TREATMENT	.031 (.141)		MUNICIPALITY
WELLESLEY TOWNSHIP WELLESLEY HTS. SUBDIVISION WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.100 (.455)		MUNICIPALITY
WILMOT TOWNSHIP NEW HAMBURG - BADEN WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	1.800 (8.183)		MUNICIPALITY
WILMOT (NEW DUNDEE) TOWNSHIP NEW DUNDEE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.080 (.364)		MUNICIPALITY
WOOLWICH TOWNSHIP ELMIRA WELL SUPPLY	GROUND SOURCE NO TREATMENT	4.700 (21.366)		MUNICIPALITY
WOOLWICH TOWNSHIP ST. JACOBS P V WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.209 (.950)		MUNICIPALITY

REGIONAL MUNICIPALITY OF WATERLOO

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
WOOLWICH TOWNSHIP MARY HILL SUBDIVISION WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.080 (.364)		MUNICIPALITY
TOTAL CAPACITY		54.240 (246.575)		

WEST CENTRAL REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity	
2	153.500	MIGD
	(697.810	$1000M^3$)

AREA WATER SUPPLY SYSTEMS

SYSTEM: CENTRAL HALDIMAND / NORFOLK WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: TWO
Operated By: MINISTRY OF THE ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY (MIGD)	MUNICIPALITIES SERVED	SOURCE
NANTICOKE CITY (Central Hald/Norfolk W S S)	Screening Coagulation Flocculation Direct Filtration Chlorination	* 3.5 MIGD (15.9 $1000M^3$)	Nanticoke City (Jarvis) (Townsend Community) (Stelco Ind. Park)	Lake Erie

* Note: This capacity relates to the potable water supply only.
The industrial capacity amounts to 66.0 MIGD.

SYSTEM: HAMILTON WATER SUPPLY

Number of Plants: ONE
Number of Municipalities Served: FOUR
Operated By: REGIONAL MUNICIPALITY OF HAMILTON-WENTWORTH

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
HAMILTON CITY (Woodward Ave. Plant)	Screening Coagulation Flocculation Sedimentation Filtration Chlorination Fluoridation	150.0 MIGD (681.9 $1000M^3$)	Ancaster Town Dundas Town Hamilton City Stoney Creek Town	Lake Ontario

Ministry of the Environment
Ontario

Central Region

(3)

REGIONAL OFFICE

DON MILLS
150 Ferrand Dr.
416-424-3000

DISTRICT OFFICES

Barrie
12 Fairview Rd.
705-726-1730

Muskoka-Haliburton
Gravenhurst Shopping Centre
705-687-3408

Peterborough
139 George St. N.
705-743-2972

Halton-Peel
1226 White Oaks Blvd.
Oakville
416-844-5747

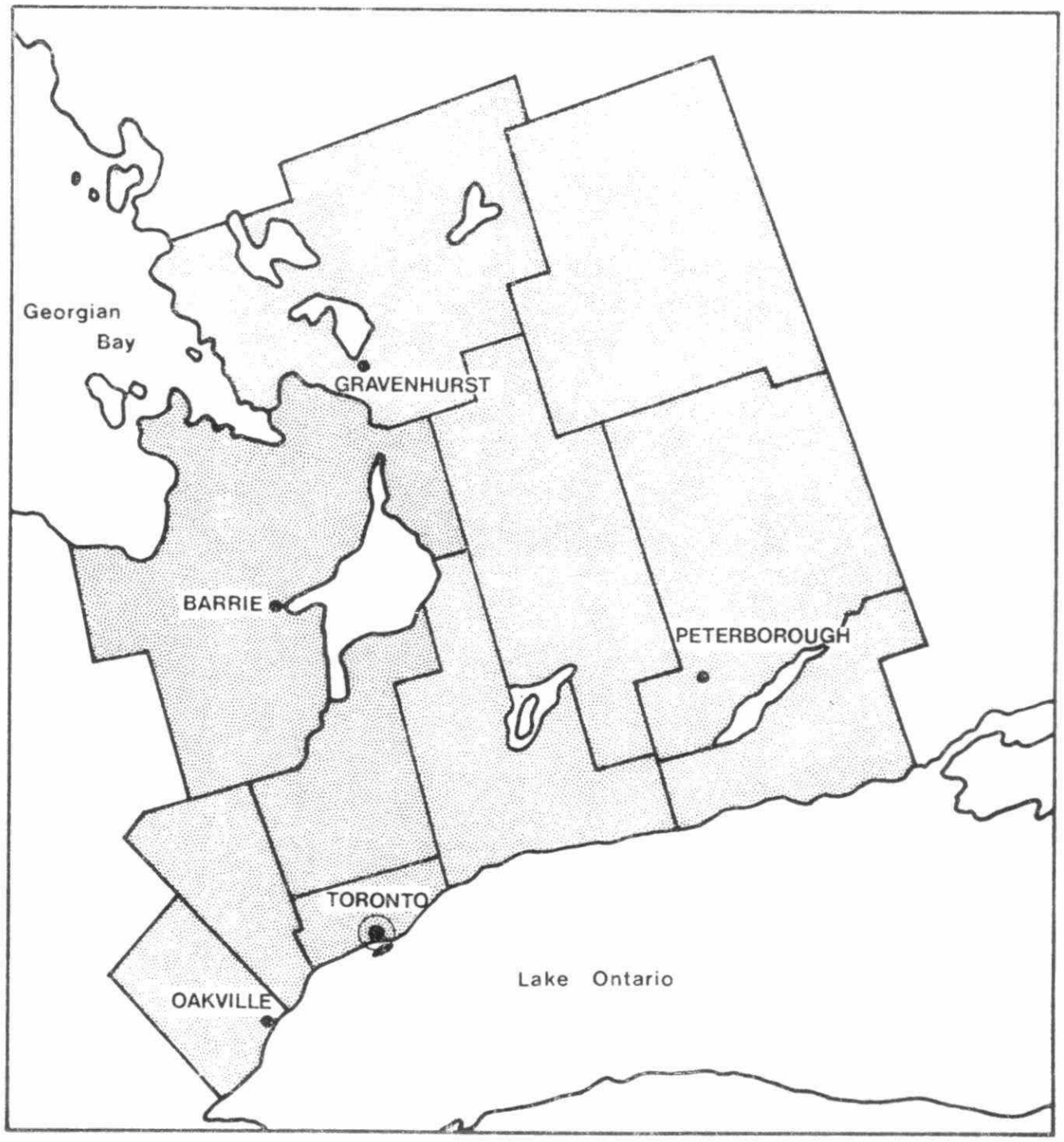
SUB-OFFICE

Huntsville
100 Main St. E.
705-789-2386

Ministry of the Environment
Ontario

Central Region

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CENTRAL REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	2	34	36	2.408	26.165	28.573 (129.893)
GROUND SOURCE PHYSCL TRTMT	0	3	3	.000	7.872	7.872 (35.786)
GROUND SOURCE CHEM TRTMT	0	24	24	.000	28.315	28.315 (128.720)
GROUND SOURCE PHYS & CHEM TRTMT	1	2	3	.020	3.866	3.886 (17.666)
SURFC SOURCE	0	10	10	.000	17.101	17.101 (77.741)
SURFC SOURCE PHYSCL TREATMT	1	1	2	.825	6.000	6.825 (31.026)
SURFC SOURCE PHYS & CHEM TRTMT	6	22	28	127.355	659.294	786.649 (3,576.106)
**** TOTALS ****	10	96	106	130.608	748.613	879.221
				(593.744)	(3,403.195)	(3,996.939)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$: THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 $1000M^3$

CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ADJALA TOWNSHIP ROSEMONT WELL SUPPLY	GROUND SOURCE CHLORINATION	.013 (.059)		MUNICIPALITY
AJAX TOWN AJAX WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	LAKE ONTARIO	MUNICIPALITY
ALLISTON TOWN ALLISTON WELL SUPPLY	GROUND SOURCE	1.610 (7.319)		MUNICIPALITY
ANSON HINDON MINDEN TOWNSHIP MINDEN WELL SUPPLY (FE REMOVAL)	GROUND SOURCE CHEM TRTMT CHLORINATION	.269 (1.223)		MUNICIPALITY
AURORA TOWN AURORA WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	3.740 (17.002)		MUNICIPALITY
BARRIE CITY BARRIE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	13.580 (61.735)		MUNICIPALITY
BEETON VILLAGE BEETON WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.532 (2.418)		MUNICIPALITY
BICROFT IMPROVEMENT DISTRICT CARDIFF TOWNSITE WELL SUPPLY	GROUND SOURCE	.144 (.655)		MUNICIPALITY
BICROFT IMPROVEMENT DISTRICT BICROFT HEIGHTS PLANT	SURFC SOURCE CHLORINATION	.122 (.555)	CENTRE LAKE	MUNICIPALITY
BOBCAYGEON VILLAGE BOBCAYGEON W T P (EXP IN 81)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.500 (2.273)	BOBCAYGEON RIVER	MINISTRY
BRACEBRIDGE TOWN BRACEBRIDGE WATER SUPPLY	SURFC SOURCE GROUND SOURCE CHLORINATION	1.850 (8.410)	LAKE MUSKOKA	MUNICIPALITY
BRADFORD TOWN BRADFORD WELL SUPPLY	GROUND SOURCE CHLORINATION	1.500 (6.819)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
BRAMPTON CITY BRAMPTON SUPPLY	(WATER IS SUPPLIED BY)		(SOUTH PEEL AREA WSS)	MINISTRY
BRECHIN POLICE VILLAGE BRECHIN SUPPLY	(WATER IS SUPPLIED BY)		(LAGOON CITY W T P)	MINISTRY
BRIGHTON VILLAGE BRIGHTON WELL SUPPLY	GROUND SOURCE CHLORINATION	1.100 (5.001)		MUNICIPALITY
BROCK TOWNSHIP CANNINGTON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.374 (1.700)		MUNICIPALITY
BROCK TOWNSHIP SUNDERLAND PV WELL SUPPLY	GROUND SOURCE	.468 (2.128)		MUNICIPALITY
BROCK TOWNSHIP BEAVERTON W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.600 (7.274)	LAKE SIMCOE	MUNICIPALITY
BURLINGTON CITY BURLINGTON W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	31.000 (140.926)	LAKE ONTARIO	MUNICIPALITY
CALEDON TOWN MCCLEOD (SUB) WELL SUPPLY	GROUND SOURCE CHLORINATION	.023 (.105)		MUNICIPALITY
CALEDON TOWN ALTON WELL SUPPLY	GROUND SOURCE CHLORINATION	.276 (1.255)		MUNICIPALITY
CALEDON TOWN GRANITE STONES WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.072 (.327)		MUNICIPALITY
CALEDON TOWN MONO MILLS WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.079 (.359)		MUNICIPALITY
CALEDON TOWN PALGRAVE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.850 (3.864)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (3 (1000M))	WATERCOURSE	OPERATED BY
CALEDON TOWN CALEDON HAMLET WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.144 (.655)		MUNICIPALITY
CALEDON TOWN FARMERS LANE WELL SUPPLY	GROUND SOURCE CHLORINATION	.036 (.164)		MUNICIPALITY
CALEDON TOWN CENTREVILLE (FOOTHILL FARM) WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.108 (.491)		MUNICIPALITY
CALEDON TOWN INGLEWOOD WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.240 (1.091)		MUNICIPALITY
CALEDON TOWN BOLTEN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.224 (5.564)		MUNICIPALITY
CALEDON TOWN CALEDON EAST WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.800 (3.637)		MUNICIPALITY
CAMPBELLFORD TOWN CAMPBELLFORD WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.250 (5.683)	TRENT RIVER	MUNICIPALITY
COBOURG TOWN COBOURG W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	8.000 (36.368)	LAKE ONTARIO	MUNICIPALITY
COLBORNE VILLAGE COLBORNE WELL SUPPLY	GROUND SOURCE CHLORINATION	1.000 (4.546)		MUNICIPALITY
COLDWATER VILLAGE COLDWATER WELL SUPPLY	GROUND SOURCE CHLORINATION	.125 (.568)		MUNICIPALITY
COLLINGWOOD TOWN COLLINGWOOD PLANT	SURFC SOURCE CHLORINATION	10.500 (47.733)	GEORGIAN BAY	MUNICIPALITY
COOKSTOWN VILLAGE COOKSTOWN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.262 (1.191)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CREEMORE VILLAGE CREEMORE WELL SUPPLY	GROUND SOURCE CHLORINATION	.400 (1.818)		MUNICIPALITY
EAST YORK BOROUGH EAST YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP SHARON POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY)	(	(HOLLAND LANDING)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.504 (2.291)		MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP MOUNT ALBERT WELL SUPPLY	GROUND SOURCE CHLORINATION	.500 (2.273)		MUNICIPALITY
ELMVALE VILLAGE ELMVALE WELL SUPPLY	GROUND SOURCE CHLORINATION	.630 (2.864)		MUNICIPALITY
ETOBICOKE BOROUGH ETOBICOKE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
FENELON FALLS VILLAGE FENELON FALLS WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.825 (3.750)	CAMERON LAKE	MINISTRY
GEORGIAN BAY TOWNSHIP MAC TIER PLANT	SURFC SOURCE CHLORINATION	.060 (.273)	STEWART LAKE	MUNICIPALITY
GEORGINA TOWNSHIP SUTTON W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.000 (4.546)	LAKE SIMCOE	MUNICIPALITY
GRAVENHURST TOWN GRAVENHURST W.T.P (NEW PLANT IN 84)	SURFC SOURCE GROUND SOURCE CHEM TRTMT CHLORINATION	2.520 (11.456)	GULL LAKE	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION FLUORIDATION	6.800 (30.913)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
HALTON HILLS TOWN ACTON WELL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	2.100 (9.547)		MUNICIPALITY
HASTINGS VILLAGE HASTINGS PLANT	SURFC SOURCE CHLORINATION	.589 (2.678)	TRENT RIVER	MUNICIPALITY
HAVELOCK VILLAGE HAVELOCK WELL SUPPLY	GROUND SOURCE CHLORINATION	.216 (.982)		MUNICIPALITY
HUNTSVILLE TOWN HUNTSVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.950 (4.319)	LAKE VERNON	MUNICIPALITY
INNISFIL TOWNSHIP INNISFIL HEIGHTS WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.936 (4.255)		MUNICIPALITY
INNISFIL TOWNSHIP STROUD WELL SUPPLY (TALL OAKS)	GROUND SOURCE CHEM TRTMT CHLORINATION	.257 (1.168)		MUNICIPALITY
KING TOWNSHIP KING CITY WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.800 (3.637)		MUNICIPALITY
KING TOWNSHIP NOBLETOWN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.797 (3.623)		MUNICIPALITY
KING TOWNSHIP SCHOMBERG WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.216 (.982)		MUNICIPALITY
LAKEFIELD VILLAGE LAKEFIELD W T P (EXP TO .77 MG IN 83)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.504 (2.291)	OTONABEE RIVER	MUNICIPALITY
LINDSAY TOWN LINDSAY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	5.000 (22.730)	SCUGOG RIVER	MUNICIPALITY
MARA TOWNSHIP BRECHIN WTP (LAGOON CITY)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.880 (4.000)	LAKE SIMCOE	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MARKHAM TOWN UNIONVILLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION		(METRO TORONTO W S S)	MUNICIPALITY
MARKHAM TOWN MARKHAM AREA (ADJACENT TO METRO TORONTO	(WATER IS SUPPLIED BY) FLUORIDATION		(METRO TORONTO W S S)	MUNICIPALITY
MEDONTE TOWNSHIP WARMINSTER WELL SUPPLY	GROUND SOURCE	.216 (.982)		MUNICIPALITY
METRO TORONTO CITY ISLAND WTP (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	60.000 (272.760)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY R.L. CLARK WTP (WESTERLY ETOBICOKE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	100.000 (454.600)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY R. C. HARRIS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	220.000 (1,000.120)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY EASTERLY WTP (SCARBOROUGH- START JUN 80)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	100.000 (454.600)	LAKE ONTARIO	MUNICIPALITY
MIDLAND TOWN MIDLAND WELL SUPPLY	GROUND SOURCE CHLORINATION	3.280 (14.911)		MUNICIPALITY
MILLBROOK VILLAGE MILLBROOK WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.020 (.091)		MINISTRY
MILTON TOWN MILTON WELL SUPPLY	GROUND SOURCE	4.000 (18.184)		MUNICIPALITY
MISSISSAUGA SOUTH-PEEL CITY SOUTH PEEL WATER SYSTEM (LAKEVIEW)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	75.000 (340.950)	LAKE ONTARIO	MINISTRY
MISSISSAUGA SOUTH-PEEL CITY SOUTH PEEL WATER SYSTEM (LORNE PARK)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	50.000 (227.300)	LAKE ONTARIO	MINISTRY

CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MUSKOKA LAKES TOWNSHIP BALA PLANT	SURFC SOURCE CHLORINATION	.446 (2.028)	LAKE MUSKOKA	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING PLANT	SURFC SOURCE CHLORINATION	.300 (1.364)	INDIAN RIVER	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE WELL SUPPLY (PLANT ONE)	GROUND SOURCE CHLORINATION	.350 (1.591)		MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE WTP 2 (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.800 (8.183)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN ORONO WELL SUPPLY	GROUND SOURCE CHLORINATION	.252 (1.146)		MUNICIPALITY
NEWMARKET TOWN NEWMARKET/GWILLIMBURY WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	3.650 (16.593)		MUNICIPALITY
NORTH YORK CITY NORTH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
NORWOOD VILLAGE NORWOOD WELL SUPPLY	GROUND SOURCE	.288 (1.309)		MUNICIPALITY
OAKVILLE TOWN OAKVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	18.000 (81.828)	LAKE ONTARIO	MUNICIPALITY
ORILLIA CITY ORILLIA WTP	SURFC SOURCE PHYSCL TREATMENT GROUND SOURCE CHLORINATION	6.000 (27.276)	LAKE COUCHICHING	MUNICIPALITY
ORILLIA TOWNSHIP WASHAGO W T P	SURFC SOURCE CHLORINATION	.010 (.045)	SEVERN RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ORO TOWNSHIP SHANTY BAY WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.260 (1.182)		MUNICIPALITY
OSHAWA CITY OSHAWA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
PENETANGUISHENE TOWN PENETANGUISHENE WELL SUPPLY	GROUND SOURCE	1.600 (7.274)		MUNICIPALITY
PERCY TOWNSHIP WARKWORTH POLICE VILLAGE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.100 (.455)	MILL CREEK	MINISTRY
PETERBOROUGH CITY PETERBOROUGH WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	24.000 (109.104)	OTONABEE RIVER	MUNICIPALITY
PICKERING TOWN PICKERING WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	5.500 (25.003)	LAKE ONTARIO	MUNICIPALITY
PORT HOPE TOWN PORT HOPE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.420 (20.093)	LAKE ONTARIO	MUNICIPALITY
PORT MCNICOLL VILLAGE PORT MCNICOLL PLANT	SURFC SOURCE CHLORINATION	.704 (3.200)	GEORGIAN BAY	MUNICIPALITY
RICHMOND HILL TOWN RICHMOND HILL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(METRO TORONTO WSS)	MUNICIPALITY
RICHMOND HILL TOWN RICHMOND HILL (OAK RIDGES) WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.540 (2.455)		MUNICIPALITY
SCARBOROUGH BOROUGH SCARBOROUGH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION		(METRO TORONTO W S S)	MUNICIPALITY
SCUGOG TOWNSHIP BLACKSTOCK WELL SUPPLY	GROUND SOURCE CHLORINATION	.245 (1.114)		MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SCUGOG TOWNSHIP GREENBANK WELL SUPPLY	GROUND SOURCE CHLORINATION	.060 (.273)		MUNICIPALITY
SCUGOG TOWNSHIP PORT PERRY WELL SUPPLY	GROUND SOURCE	2.016 (9.165)		MUNICIPALITY
SMITH TOWNSHIP WOODLAND ACRES ETC. SUBDV'N SUPPLY	(WATER IS SUPPLIED BY)	(	(PETERBOROUGH W S S)	MINISTRY
STAYNER TOWN STAYNER WELL SUPPLY	GROUND SOURCE CHLORINATION	.860 (3.910)		MUNICIPALITY
TAY TOWNSHIP SUNNYSIDE SUBDIVISION WELL SUPPLY	GROUND SOURCE CHLORINATION	.331 (1.505)		MUNICIPALITY
TAY TOWNSHIP WAUBASHENE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.270 (1.227)	GEORGIAN BAY	MUNICIPALITY
TECUMSETH TOWNSHIP BOND HEAD WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.118 (.536)		MUNICIPALITY
TINY TOWNSHIP GEORGIAN SANDS WELL SUPPLY	GROUND SOURCE	.674 (3.064)		MUNICIPALITY
TORONTO CITY TORONTO SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
TOSORONTIO TOWNSHIP LISLE WELL SUPPLY	GROUND SOURCE CHLORINATION	.144 (.655)		MUNICIPALITY
TOSORONTIO (GROHAL) TOWNSHIP EVERETT WELL SUPPLY	GROUND SOURCE CHLORINATION	.115 (.523)		MUNICIPALITY
TOTTENHAM VILLAGE TOTTENHAM WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION FLUORIDATION	1.728 (7.855)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
UXBRIDGE TOWNSHIP UXBRIDGE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.828 (3.764)		MUNICIPALITY
VAUGHAN TOWN MAPLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHLORINATION	.490 (2.228)	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN KLEINBURG WELL SUPPLY	GROUND SOURCE CHLORINATION	.216 (.982)		MUNICIPALITY
VAUGHAN TOWN CONCORD AREA SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	2.180 (9.910)	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN CARRVILLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	1.426 (6.483)	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN VAUGHAN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN TOWN WOODBRIGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO WSS)	MUNICIPALITY
VESPRA TOWNSHIP MIDHURST WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.187 (.850)		MUNICIPALITY
VESPRA TOWNSHIP MINESING WELL SUPPLY	GROUND SOURCE	.187 (.850)		MUNICIPALITY
VICTORIA HARBOUR VILLAGE VICTORIA HARBOUR WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.875 (3.978)	GEORGIAN BAY	MINISTRY
WASAGA BEACH TOWN WASAGA BEACH WELL SUPPLY (COMP IN 81)	GROUND SOURCE CHLORINATION	2.300 (10.456)		MINISTRY
WHITBY TOWN WHITBY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY

CENTRAL REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
WHITBY TOWN BROOKLIN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.158 (.718)		MUNICIPALITY
WHITCHURCH-STOUFFVILLE TOWN STOUFFVILLE WELL SUPPLY	GROUND SOURCE CHLORINATION	1.190 (5.410)		MUNICIPALITY
WOODVILLE VILLAGE WOODVILLE WELL SUPPLY	GROUND SOURCE CHLORINATION	.108 (.491)		MINISTRY
YORK BOROUGH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY

Central Region

WATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity
DURHAM	
HALTON	
METRO TORONTO	
PEEL	
YORK	
DISTRICT MUNICIPALITY OF MUSKOKA	
Total	

REGIONAL MUNICIPALITY OF DURHAM

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
AJAX TOWN AJAX WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	LAKE ONTARIO	MUNICIPALITY
BROCK TOWNSHIP CANNINGTON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.374 (1.700)		MUNICIPALITY
BROCK TOWNSHIP SUNDERLAND PV WELL SUPPLY	GROUND SOURCE NO TREATMENT	.468 (2.128)		MUNICIPALITY
BROCK TOWNSHIP BEAVERTON W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.600 (7.274)	LAKE SIMCOE	MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE WELL SUPPLY (PLANT ONE)	GROUND SOURCE NO TREATMENT CHLORINATION	.350 (1.591)		MUNICIPALITY
NEWCASTLE TOWN BOWMANVILLE WTP 2 (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	4.000 (18.184)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN NEWCASTLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.800 (8.183)	LAKE ONTARIO	MUNICIPALITY
NEWCASTLE TOWN ORONO WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.252 (1.146)		MUNICIPALITY
OSHAWA CITY OSHAWA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
PICKERING TOWN PICKERING WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	5.500 (25.003)	LAKE ONTARIO	MUNICIPALITY
SCUGOG TOWNSHIP BLACKSTOCK WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.245 (1.114)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
SCUGOG TOWNSHIP GREENBANK WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.060 (.273)		MUNICIPALITY
SCUGOG TOWNSHIP PORT PERRY WELL SUPPLY	GROUND SOURCE NO TREATMENT	2.016 (9.165)		MUNICIPALITY
UXBRIDGE TOWNSHIP UXBRIDGE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.828 (3.764)		MUNICIPALITY
WHITBY TOWN WHITBY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	30.000 (136.380)	LAKE ONTARIO	MUNICIPALITY
WHITBY TOWN BROOKLIN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.158 (.718)		MUNICIPALITY
TOTAL CAPACITY		89.651 (407.553)		

REGIONAL MUNICIPALITY OF HALTON

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
BURLINGTON CITY BURLINGTON W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	31.000 (140.926)	LAKE ONTARIO	MUNICIPALITY
HALTON HILLS TOWN GEORGETOWN WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION FLUORIDATION	6.800 (30.913)		MUNICIPALITY
HALTON HILLS TOWN ACTON WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION FLUORIDATION	2.100 (9.547)		MUNICIPALITY
MILTON TOWN MILTON WELL SUPPLY	GROUND SOURCE NO TREATMENT	4.000 (18.184)		MUNICIPALITY
OAKVILLE TOWN OAKVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	18.000 (81.828)	LAKE ONTARIO	MUNICIPALITY
TOTAL CAPACITY		61.900 (281.397)		

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
EAST YORK BOROUGH EAST YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
ETOBICOKE BOROUGH ETOBICOKE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
METRO TORONTO CITY ISLAND WTP (DIRECT FILTRATION)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	60.000 (272.760)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY R.L. CLARK WTP (WESTERLY) ETOBICOKE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	100.000 (454.600)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY R. C. HARRIS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	220.000 (1,000.120)	LAKE ONTARIO	MUNICIPALITY
METRO TORONTO CITY EASTERLY WTP (SCARBOROUGH- START JUN 80)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	100.000 (454.600)	LAKE ONTARIO	MUNICIPALITY
NORTH YORK CITY NORTH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
SCARBOROUGH BOROUGH SCARBOROUGH SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
TORONTO CITY TORONTO SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
YORK BOROUGH YORK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
TOTAL CAPACITY		480.000 (2,182.080)		

DISTRICT MUNICIPALITY OF MUSKOKA

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($10000M^3$)	WATERCOURSE	OPERATED BY
BRACEBRIDGE TOWN BRACEBRIDGE WATER SUPPLY	SURFC SOURCE NO TREATMENT GROUND SOURCE CHLORINATION	1.850 (8.410)	LAKE MUSKOKA	MUNICIPALITY
GEORGIAN BAY TOWNSHIP MAC TIER PLANT	SURFC SOURCE NO TREATMENT CHLORINATION	.060 (.273)	STEWART LAKE	MUNICIPALITY
GRAVENHURST TOWN GRAVENHURST W.T.P (NEW PLANT IN 84)	SURFC SOURCE NO TREATMENT GROUND SOURCE CHEM TRTMT CHLORINATION	2.520 (11.456)	GULL LAKE	MUNICIPALITY
HUNTSVILLE TOWN HUNTSVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.950 (4.319)	LAKE VERNON	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP BALA PLANT	SURFC SOURCE NO TREATMENT CHLORINATION	.446 (2.028)	LAKE MUSKOKA	MUNICIPALITY
MUSKOKA LAKES TOWNSHIP PORT CARLING PLANT	SURFC SOURCE NO TREATMENT CHLORINATION	.300 (1.364)	INDIAN RIVER	MUNICIPALITY
TOTAL CAPACITY		6.126 (27.849)		

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
BRAMPTON CITY BRAMPTON SUPPLY	(WATER IS SUPPLIED BY)	((	(SOUTH PEEL AREA WSS)	MINISTRY
CALEDON TOWN GRANITE STONES WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.072 (.327)		MUNICIPALITY
CALEDON TOWN MONO MILLS WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.079 (.359)		MUNICIPALITY
CALEDON TOWN PALGRAVE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.850 (3.864)		MUNICIPALITY
CALEDON TOWN CALEDON HAMLET WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.144 (.655)		MUNICIPALITY
CALEDON TOWN FARMERS LANE WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.036 (.164)		MUNICIPALITY
CALEDON TOWN CENTREVILLE (FOOTHILL FARM) WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.108 (.491)		MUNICIPALITY
CALEDON TOWN INGLEWOOD WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.240 (1.091)		MUNICIPALITY
CALEDON TOWN BOLTEN WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.224 (5.564)		MUNICIPALITY
CALEDON TOWN CALEDON EAST WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.800 (3.637)		MUNICIPALITY
MISSISSAUGA SOUTH-PEEL CITY SOUTH PEEL WATER SYSTEM (LAKEVIEW)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	75.000 (340.950)	LAKE ONTARIO	MINISTRY

REGIONAL MUNICIPALITY OF PEEL

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ^{3} (1000M)	WATERCOURSE	OPERATED BY
MISSISSAUGA SOUTH-PEEL CITY SOUTH PEEL WATER SYSTEM (LORNE PARK)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	50.000 (227.300)	LAKE ONTARIO	MINISTRY
TOTAL CAPACITY		128.553 (584.402)		

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
AURORA TOWN AURORA WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	3.740 (17.002)		MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP SHARON POLICE VILLAGE SUPPLY	(WATER IS SUPPLIED BY)	(	(HOLLAND LANDING)	MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP HOLLAND LANDING WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.504 (2.291)		MUNICIPALITY
EAST GWILLIMBURY TOWNSHIP MOUNT ALBERT WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.500 (2.273)		MUNICIPALITY
GEORGINA TOWNSHIP SUTTON W.T.P.	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	1.000 (4.546)	LAKE SIMCOE	MUNICIPALITY
KING TOWNSHIP KING CITY WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.800 (3.637)		MUNICIPALITY
KING TOWNSHIP NOBLETON WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.797 (3.623)		MUNICIPALITY
KING TOWNSHIP SCHOMBERG WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.216 (.982)		MUNICIPALITY
MARKHAM TOWN UNIONVILLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	(	(METRO TORONTO W S S)	MUNICIPALITY
MARKHAM TOWN MARKHAM AREA (ADJACENT TO METRO TORONTO	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
NEWMARKET TOWN NEWMARKET/GWILLIMBURY WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	3.650 (16.593)		MUNICIPALITY

REGIONAL MUNICIPALITY OF YORK

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
RICHMOND HILL TOWN RICHMOND HILL SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO WSS)	MUNICIPALITY
RICHMOND HILL TOWN RICHMOND HILL (OAK RIDGES) WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.540 (2.455)		MUNICIPALITY
VAUGHAN TOWN MAPLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHLORINATION	.490 (2.228)	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN KLEINBURG WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.216 (.982)		MUNICIPALITY
VAUGHAN TOWN CONCORD AREA SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	2.180 (9.910)	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN CARRVILLE SUPPLY	(WATER IS SUPPLIED BY) GROUND SOURCE CHEM TRTMT CHLORINATION	1.426 (6.483)	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN VAUGHAN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO W S S)	MUNICIPALITY
VAUGHAN TOWN TOWN WOODBRIGE SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(METRO TORONTO WSS)	MUNICIPALITY
WHITCHURCH-STOUFFVILLE TOWN STOUFFVILLE WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	1.190 (5.410)		MUNICIPALITY
TOTAL CAPACITY		17.249 (78.414)		

CENTRAL REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity	
2	605.000	MIGD
	(2750.420	$1000M^3$)

AREA WATER SUPPLY SYSTEMS

SYSTEM: METROPOLITAN TORONTO WATER SUPPLY SYSTEM

Number of Plants: FOUR

Number of Municipalities Served: EIGHT

Operated By: METRO TORONTO DEPARTMENT OF WORKS

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
ETOBICOKE BOROUGH (Westerly Plant)	Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	100.0 MIGD (454.6 $1000M^3$)	Borough of East York Etobicoke Borough Markham Town North York City Scarborough Borough Vaughan Town	Lake Ontario
SCARBOROUGH BOROUGH (Easterly Plant)	Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	100.0 MIGD (454.6 $1000M^3$)	Borough of East York Etobicoke Borough Markham Town North York City Scarborough Borough Toronto City Vaughan Town York Borough	Lake Ontario
TORONTO CITY (Island Plant)	Coagulation Sedimentation Filtration Taste & odour Control Chlorination Fluoridation	60.0 MIGD (272.8 $1000M^3$)	Borough of East York Etobicoke Borough North York City Scarborough Borough Toronto City Vaughan Town York Borough	Lake Ontario
TORONTO CITY (R.C. Harris Plant)	Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	220.0 MIGD (1000.12 $1000M^3$)	Borough of East York Etobicoke Borough North York City Scarborough Borough Toronto City Vaughan Town York Borough	Lake Ontario

AREA WATER SUPPLY SYSTEMS

SYSTEM: SOUTH PEEL WATER SUPPLY SYSTEM

Number of Plants: TWO

Number of Municipalities Served: TWO

Operated By: MINISTRY OF ENVIRONMENT

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
MISSISSAUGA (Lakeview Plant)	Screening Coagulation Sedimentation Filtration Taste & Odour Control Fluoridation Chlorination	75.0 MIGD ($341.0\ 1000M^3$)	Brampton Mississauga	Lake Ontario
MISSISSAUGA (Lorne Park Plant)	Screening Coagulation (DIRECT) ------- Filtration Taste & Odour Control Fluoridation Chlorination	50.0 MIGD ($227.3\ 1000M^3$)	Brampton Mississauga	Lake ONTARIO

Ministry of the Environment
Ontario

Southeastern Region

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REGIONAL OFFICE

KINGSTON
133 Dalton St.
613-549-4000

DISTRICT OFFICES

Belleville
15 Victoria Ave.
613-962-9208

Cornwall
4 Montreal Rd.
613-933-7402

Ottawa
2378 Holly Lane
613-521-3450

Pembroke
1000 MacKay St.
P.O. Box 67
613-732-3643

Ministry of the Environment
Ontario

Southeastern Region

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SOUTHEASTERN REGION SUMMARY

TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD ($1000M^3$) -------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	7	20	27	2.356	7.206	9.562 (43.393)
GROUND SOURCE PHYSCL TRTMT	0	2	2	.000	.138	.138 (.627)
GROUND SOURCE CHEM TRTMT	2	0	2	.506	.000	.506 (2.300)
GROUND SOURCE PHYS & CHEM TRTMT	1	1	2	.171	.086	.257 (1.168)
SURFC SOURCE	1	14	15	.430	26.731	27.161 (123.474)
SURFC SOURCE PHYSCL TREATMT	1	4	5	.180	1.791	1.971 (8.960)
SURFC SOURCE PHYS & CHEM TRTMT	9	18	27	14.625	217.820	232.445 (1,056.695)
**** TOTALS ****	21	59	80	18.268 (83.046)	253.872 (1,154.102)	272.140 (1,237.148)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
$1000M^3$:THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 $1000M^3$

SOUTHEASTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ALEXANDRIA TOWN ALEXANDRIA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.140 (5.182)	ALEXANDER LAKE	MUNICIPALITY
ALFRED TOWNSHIP LEFAIVRE HAMLET PLANT	SURFC SOURCE CHLORINATION	.086 (.391)	OTTAWA RIVER	MUNICIPALITY
ALFRED VILLAGE ALFRED WELL SUPPLY	GROUND SOURCE CHLORINATION	.100 (.455)	.	MUNICIPALITY
ALMONTE TOWN ALMONTE WELL SUPPLY	GROUND SOURCE	1.180 (5.364)		MUNICIPALITY
AMELIASBURG TOWNSHIP FENWOOD GARDENS WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.072 (.327)	SAWGUIN CREEK	MUNICIPALITY
ARNPRIOR TOWN ARNPRIOR WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.400 (15.456)	MADAWASKA RIVER	MUNICIPALITY
BANCROFT VILLAGE BANCROFT PLANT	SURFC SOURCE CHLORINATION	1.000 (4.546)	CLARKE LAKE	MUNICIPALITY
BARRY'S BAY VILLAGE BARRY'S BAY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.550 (2.500)	KAMANISKEG LAKE	MINISTRY
BATH VILLAGE BATH WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.840 (3.819)	LAKE ONTARIO	MUNICIPALITY
BEACHBURG VILLAGE BEACHVILLE WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT	.090 (.409)		MUNICIPALITY
BELLEVILLE CITY BELLEVILLE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	12.000 (54.552)	BAY OF QUINTE	MUNICIPALITY
BROCKVILLE CITY BROCKVILLE WTF	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	9.000 (40.914)	ST LAWRENCE RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CARDINAL VILLAGE CANADA STARCH WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.300 (1.364)	ST. LAWRENCE RIVER	MUNICIPALITY
CARLETON PLACE TOWN CARLETON PLACE PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	5.000 (22.730)	MISSISSIPPI RIVER	MUNICIPALITY
CASSELMAN VILLAGE CASSLEMAN WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.700 (3.182)	S. NATION RIVER	MINISTRY
CHALK RIVER VILLAGE CHALK RIVER PLANT	SURFC SOURCE CHLORINATION	.430 (1.955)	CORRY LAKE	MINISTRY
CHESTERVILLE VILLAGE CHESTERVILLE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.216 (.982)		MINISTRY
CLARENCE TOWNSHIP HAMMOND WELL SUPPLY	GROUND SOURCE CHLORINATION	.184 (.836)		MUNICIPALITY
CLARENCE TOWNSHIP CLARENCE CR.WELL SUPPLY (UP-GRADED IN 81	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.086 (.391)		MUNICIPALITY
CLARENCE TOWNSHIP ST PASCHAL BAYLON WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.048 (.218)		MUNICIPALITY
CLARENCE TOWNSHIP CHENEY WELL SUPPLY	GROUND SOURCE CHLORINATION	.036 (.164)		MUNICIPALITY
CLARENCE TOWNSHIP BOURGET POLICE VILLAGE WELL SUPPLY	GROUND SOURCE CHLORINATION	.172 (.782)		MUNICIPALITY
COBDEN VILLAGE COBDEN WTP(OPER SWITCH IN 82)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.300 (1.364)	MUSKRAT LAKE	MINISTRY
CORNWALL TOWNSHIP LONG SAULT HAMLET PLANT	SURFC SOURCE CHLORINATION	.500 (2.273)	LAKE ST LAWRENCE	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CORNWALL CITY CORNWALL W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	22.000 (100.012)	LAKE ST LAWRENCE	MUNICIPALITY
CUMBERLAND TOWNSHIP QUEENSWOOD AREA WELL SUPPLY	GROUND SOURCE CHLORINATION	.466 (2.118)		MUNICIPALITY
CUMBERLAND TOWNSHIP CUMBERLAND TWP SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
DEEP RIVER TOWN DEEP RIVER WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.100 (14.093)	OTTAWA RIVER	MUNICIPALITY
DELORO VILLAGE DELORO WELL SUPPLY	GROUND SOURCE CHLORINATION	.030 (.136)		MUNICIPALITY
DESERONTO TOWN DESERONTO W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.650 (2.955)	BAY OF QUINTE	MINISTRY
EGANVILLE VILLAGE EGANVILLE WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.180 (.818)	BONNECHERE RIVER	MINISTRY
ERNESTOWN TOWNSHIP ODESSA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.450 (2.046)	MILLHAVEN CREEK	MINISTRY
ERNESTOWN TOWNSHIP AMHERSTVIEW PLANT	SURFC SOURCE CHLORINATION	2.400 (10.910)	LAKE ONTARIO	MUNICIPALITY
FINCH VILLAGE FINCH WELL SUPPLY (START IN 81)	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.171 (.777)		MINISTRY
FRANKFORD VILLAGE FRANKFORD WELL SUPPLY	GROUND SOURCE CHLORINATION	.280 (1.273)		MINISTRY
GANANOQUE SEPARATED TOWN GANANOQUE PLANT	SURFC SOURCE CHLORINATION	2.160 (9.819)	ST. LAWRENCE RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
GLOUCESTER CITY GLOUCESTER TWP. SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
GOULBOURN TOWNSHIP GOULBOURN TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
HAWKESBURY TOWN HAWKESBURY W T P TUBE SETTLERS	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.000 (18.184)	OTTAWA RIVER	MUNICIPALITY
IROQUOIS VILLAGE IROQUOIS PLANT	SURFC SOURCE CHLORINATION	1.600 (7.274)	ST LAWRENCE RIVER	MUNICIPALITY
KANATA CITY GLENCAIRN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
KANATA CITY KANATA SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
KEMPTVILLE TOWN KEMPTVILLE WELL SUPPLY	GROUND SOURCE CHLORINATION	1.020 (4.637)		MUNICIPALITY
KINGSTON TOWNSHIP POINT PLEASANT WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	6.000 (27.276)	LAKE ONTARIO	MINISTRY
KINGSTON TOWNSHIP QUEEN'S ACRES PLANT	SURFC SOURCE CHLORINATION	.500 (2.273)	COLLINS BAY (L. ONTARIO)	MUNICIPALITY
KINGSTON TOWNSHIP WEST BROOK WELL SUPPLY	GROUND SOURCE CHLORINATION	.056 (.255)		MUNICIPALITY
KINGSTON CITY KINGSTON FILTRATION WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	21.000 (95.466)	LAKE ONTARIO	MUNICIPALITY
L'ORIGNAL VILLAGE L'ORIGNAL WELL SUPPLY	GROUND SOURCE CHLORINATION	.233 (1.059)		MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
LANCASTER VILLAGE LANCASTER WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	.290 (1.318)		MINISTRY
LEEDS & LANSDOWNE,FRONT TOWNSHIP LANSDOWNE WELL SUPPLY	GROUND SOURCE CHLORINATION	.320 (1.455)		MINISTRY
MADOC VILLAGE MADOC WELL SUPPLY	GROUND SOURCE CHLORINATION	.330 (1.500)		MUNICIPALITY
MARMORA VILLAGE MARMORA W T P	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.219 (.996)	CROWE RIVER	MUNICIPALITY
MERRICKVILLE VILLAGE MERRICKVILLE WELL SUPPLY	GROUND SOURCE CHLORINATION	.710 (3.228)		MINISTRY
MORRISBURG VILLAGE MORRISBURG PLANT	SURFC SOURCE CHLORINATION	2.300 (10.456)	ST LAWRENCE RIVER	MUNICIPALITY
NAPANEE TOWN NAPANEE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	2.800 (12.729)	NAPANEE RIVER	MUNICIPALITY
NEPEAN CITY LAKEVIEW SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY LYNWOOD VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY BARRHAVEN SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NORTH PLANTAGENET TOWNSHIP WENDOVER POLICE VILLAGE PLANT	SURFC SOURCE CHLORINATION	.720 (3.273)	OTTAWA RIVER	MUNICIPALITY
OSNABRUCK TOWNSHIP INGLESIDE HAMLET PLANT	SURFC SOURCE CHLORINATION	1.800 (8.183)	ST LAWRENCE RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (BRITANNIA)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	54.400 (247.302)	OTTAWA RIVER	MUNICIPALITY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (LEMIEUX IS.)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	65.700 (298.672)	OTTAWA RIVER	MUNICIPALITY
PEMBROKE CITY PEMBROKE PLANT	SURFC SOURCE CHLORINATION	6.200 (28.185)	OTTAWA RIVER	MUNICIPALITY
PERTH TOWN PERTH WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.000 (9.092)	TAY RIVER	MUNICIPALITY
PETAWAWA VILLAGE PETAWAWA WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	3.000 (13.638)	OTTAWA RIVER	MUNICIPALITY
PICTON TOWN PICTON W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	2.400 (10.910)	PICTON BAY (L. ONTARIO)	MUNICIPALITY
PITTSBURGH TOWNSHIP PITTSBURG SUPPLY	(WATER IS SUPPLIED BY)	(	(KINGSTON CITY WSS)	MINISTRY
PITTSBURGH TOWNSHIP GLEN LAWRENCE PLANT	SURFC SOURCE CHLORINATION	.015 (.068)	ST LAWRENCE RIVER	MUNICIPALITY
PITTSBURGH TOWNSHIP CANA WELL SUPPLY	GROUND SOURCE CHLORINATION	.015 (.068)		MUNICIPALITY
PLANTAGENET VILLAGE PLANTAGENET W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.375 (1.705)	SOUTH NATION RIVER	MINISTRY
PRESCOTT SEPARATED TOWN PRESCOTT PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	2.450 (11.138)	ST LAWRENCE RIVER	MUNICIPALITY
RENFREW TOWN RENFREW WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.000 (18.184)	BONNECHERE RIVER	MINISTRY

SOUTHEASTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
RIDEAU TOWNSHIP HILLSIDE GARDENS WELL SUPPLY	GROUND SOURCE CHLORINATION	.149 (.677)		MUNICIPALITY
ROCKCLIFFE PARK VILLAGE ROCKCLIFFE PARK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
ROCKLAND TOWN ROCKLAND WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.600 (7.274)	OTTAWA RIVER	MINISTRY
SIDNEY TOWNSHIP BATAWA WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	1.200 (5.455)	TRENT RIVER	MUNICIPALITY
SIDNEY TOWNSHIP MONTROSE AREA WELL SUPPLY	GROUND SOURCE CHLORINATION	.300 (1.364)		MUNICIPALITY
SIDNEY TOWNSHIP QUINTE HEIGHTS (SUBDV'N)	GROUND SOURCE CHLORINATION	.045 (.205)		MUNICIPALITY
SMITH FALLS SEPARATED TOWN SMITH FALLS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	6.000 (27.276)	RIDEAU RIVER	MUNICIPALITY
ST.ISIDORE DE PRESCOTT VILLAGE ST ISIDORE WELL SUPPLY	GROUND SOURCE CHLORINATION	.047 (.214)		MUNICIPALITY
STIRLING VILLAGE STIRLING WELL SUPPLY	GROUND SOURCE CHLORINATION	.576 (2.618)		MUNICIPALITY
THURLOW TOWNSHIP POINT ANNE HAMLET WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.040 (.182)	BAY OF QUINTE	MUNICIPALITY
TRENTON CITY TRENTON SPRING SUPPLY	GROUND SOURCE CHLORINATION	1.850 (8.410)		MUNICIPALITY
TRENTON CITY CHESTER RD. WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	5.000 (22.730)	TRENT RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
TWEED VILLAGE TWEED WELL SUPPLY	GROUND SOURCE CHLORINATION	.440 (2.000)		MUNICIPALITY
VANIER CITY VANIER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
VANKLEEK HILL TOWN VANKLEEK HILL WELL SUPPLY	GROUND SOURCE CHLORINATION	.216 (.982)		MINISTRY
WELLINGTON VILLAGE WELLINGTON WELL SUPPLY	GROUND SOURCE CHLORINATION	.260 (1.182)		MUNICIPALITY
WEST CARLETON TOWNSHIP HUNTLEY - JULIA AREA WELL SUPPLY	GROUND SOURCE CHLORINATION	.050 (.227)		MUNICIPALITY
WESTPORT VILLAGE WESTPORT WELL SUPPLY	GROUND SOURCE CHLORINATION	.187 (.850)		MINISTRY
WINCHESTER VILLAGE WINCHESTER WELL SUPPLY	GROUND SOURCE CHLORINATION	.410 (1.864)		MINISTRY

Southeastern Region

WATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity
OTTAWA CARLETON	
	Total

REGIONAL MUNICIPALITY OF OTTAWA-CARLETON

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CUMBERLAND TOWNSHIP QUEENSWOOD AREA WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.466 (2.118)		MUNICIPALITY
CUMBERLAND TOWNSHIP CUMBERLAND TWP SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
GLOUCESTER CITY GLOUCESTER TWP. SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
GOULBOURN TOWNSHIP GOULBOURN TWP. SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
KANATA CITY GLENCAIRN SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
KANATA CITY KANATA SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY LAKEVIEW SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY LYNWOOD VILLAGE SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
NEPEAN CITY BARRHAVEN SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(OTTAWA W S S)	MUNICIPALITY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (BRITANNIA)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	54.400 (247.302)	OTTAWA RIVER	MUNICIPALITY
OTTAWA CITY OTTAWA WATER SUPPLY SYSTEM (LEMIEUX IS.)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	65.700 (298.672)	OTTAWA RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3M)	WATERCOURSE	OPERATED BY
RIDEAU TOWNSHIP HILLSIDE GARDENS WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.149 (.677)		MUNICIPALITY
ROCKCLIFFE PARK VILLAGE ROCKCLIFFE PARK SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
VANIER CITY VANIER SUPPLY	(WATER IS SUPPLIED BY) FLUORIDATION CHLORINATION	(	(OTTAWA W S S)	MUNICIPALITY
WEST CARLETON TOWNSHIP HUNTLEY - JULIA AREA WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	.050 (.227)		MUNICIPALITY
TOTAL CAPACITY		120.765 (548.998)		

SOUTHEASTERN REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity (MIGD)
1	120.100 MIGD
	(546.000 $1000M^3$)

AREA WATER SUPPLY SYSTEMS

SYSTEM: OTTAWA WATER SUPPLY SYSTEM

Number of Plants: TWO

Number of Municipalities Served: EIGHT

Operated By: REGIONAL MUNICIPALITY OF OTTAWA CARLETON

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
OTTAWA CITY (Britannia Plant)	Screening Coagulation Sedimentation Filtration Taste & Odour Control Ph Adjustment Fluoridation Chlorination	54.4 MIGD (247.3 1000M^3)	Cumberland Twp. Gloucester Twp. Goulbourn Twp. KANATA CITY Nepean Twp. Ottawa City Rockcliff Park Village Vanier City	Ottawa River
OTTAWA CITY (Lemieux Island Plant)	Screening Coagulation Sedimentation Filtration Taste & Odour Control Ph Adjustment Fluoridation Chlorination	65.7 MIGD (298.7 1000M^3)	Cumberland Twp. Gloucester Twp. Goulbourn Twp. KANATA CITY Nepean Twp. Ottawa City Rockcliff Park Village Vanier City	Ottawa River

Ministry of the Environment
Ontario

Northeastern Region

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REGIONAL OFFICE

SUDBURY
199 Larch St.
705-675-4501

DISTRICT OFFICES

North Bay
1500 Fisher St.
705-476-1001

Sault Ste. Marie
445 Albert St. E.
705-949-4640

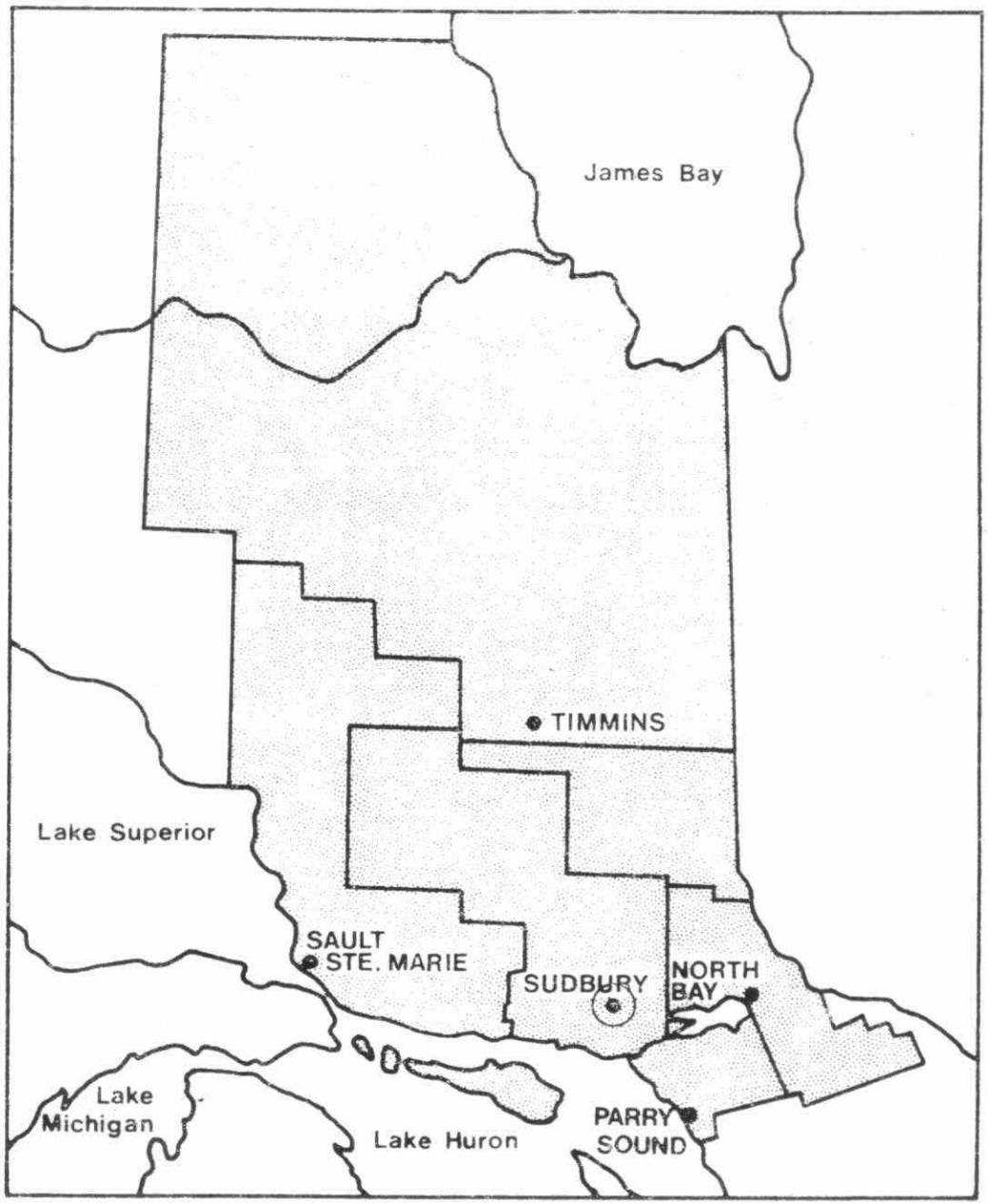
Timmins
83 Algonquin Blvd. W.
705-264-9474

Parry Sound
74 Church St.
705-746-2139

Ministry of the Environment
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Northeastern Region

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TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD (10^3 1000M^3) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	2	18	20	.252	13.721	13.973 (63.521)
GROUND SOURCE PHYSCL TRTMT	1	3	4	.115	3.448	3.563 (16.197)
GROUND SOURCE CHEM TRTMT	1	3	4	.650	8.542	9.192 (41.787)
GROUND SOURCE PHYS & CHEM TRTMT	2	1	3	.185	1.350	1.535 (6.978)
SURFC SOURCE	7	19	26	5.433	79.337	84.770 (385.364)
SURFC SOURCE PHYSCL TREATMT	0	2	2	.000	2.090	2.090 (9.501)
SURFC SOURCE CHEM TRTMT	1	0	1	2.460	.000	2.460 (11.183)
SURFC SOURCE PHYS & CHEM TRTMT	8	7	15	3.524	40.496	44.020 (200.115)
**** TOTALS ****	22	53	75	12.619	148.984	161.603
				(57.366)	(677.281)	(734.647)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
10^3 1000M^3 : THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 10^3 1000M^3

NORTHEASTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ARMSTRONG TOWNSHIP EARLTON WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.070 (.318)		MUNICIPALITY
ASSIGINACK TOWNSHIP MANITOWANING PLANT	SURFC SOURCE CHLORINATION	.085 (.386)	MANITOWANING BAY	MINISTRY
BILLINGS TOWNSHIP KAGAWONG PLANT	SURFC SOURCE CHLORINATION	.015 (.068)	KAGAWONG LAKE	MUNICIPALITY
BLACK RIVER - MATHESON TOWNSHIP HOLTYRE WELL SUPPLY	GROUND SOURCE CHLORINATION	.120 (.546)		MUNICIPALITY
BLACK RIVER MATHESON TOWNSHIP VAL GAGNE WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.065 (.295)		MINISTRY
BLACK RIVER-MATHESON TOWNSHIP MATHESON PLANT	SURFC SOURCE CHLORINATION	.280 (1.273)	BELEEK LAKE	MINISTRY
BLACK RIVER-MATHESON TOWNSHIP RAMORE WELL SUPPLY	GROUND SOURCE	.108 (.491)		MINISTRY
BLIND RIVER TOWN BLIND RIVER WELL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	.785 (3.569)		MUNICIPALITY
BRUCE MINES TOWN BRUCE MINES PLANT	SURFC SOURCE CHLORINATION	.108 (.491)	L.HURON ST.JOSEPH'S CHNL	MINISTRY
BURK'S FALLS VILLAGE BURKS FALLS WELL SUPPLY	GROUND SOURCE	.245 (1.114)		MUNICIPALITY
CACHE BAY TOWN CACHE BAY PLANT	SURFC SOURCE CHLORINATION	.220 (1.000)	TANNER LAKE	MINISTRY
CALDWELL TOWNSHIP VERNER POLICE VILLAGE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.233 (1.059)	VEUVE RIVER	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
CAPREOL TOWN CAPREOL WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT	1.758 (7.992)		MUNICIPALITY
CHAPLEAU TOWNSHIP CHAPLEAU W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.200 (5.455)	KEBESQUASING RIVER	MINISTRY
COBALT TOWN COBALT PLANT	SURFC SOURCE CHLORINATION	3.200 (14.547)	LAKE SASAGINAGA	MUNICIPALITY
COCHRANE TOWN COCHRANE WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	1.350 (6.137)		MUNICIPALITY
DUBREUILVILLE UNORGANISED TWP DUBREUILVILLE WELL SUPPLY	GROUND SOURCE	.100 (.455)		MUNICIPALITY
DYMOND TOWNSHIP DYMOND WELL SUPPLY	GROUND SOURCE CHLORINATION	1.008 (4.582)		MUNICIPALITY
ELLIOT LAKE TOWN ELLIOT LAKE WTP (NEW PLANT-82)	SURFC SOURCE CHLORINATION FLUORIDATION	6.740 (30.640)	ELLIOT LAKE	MUNICIPALITY
ENGLEHART TOWN ENGLEHART WELL SUPPLY	GROUND SOURCE	.720 (3.273)		MUNICIPALITY
ESPANOLA TOWN ESPANOLA PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	1.500 (6.819)	APSEY LAKE	MINISTRY
FAUQUIER TOWNSHIP MOONBEAM WELL SUPPLY	GROUND SOURCE PHY & CHEM TRTMT CHLORINATION	.120 (.546)		MINISTRY
GORE BAY TOWN GORE BAY PLANT	SURFC SOURCE CHLORINATION	.294 (1.337)	LAKE HURON	MUNICIPALITY
HAILEYBURY TOWN HAILEYBURY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.500 (6.819)	LAKE TIMISKAMING	MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
HEARST TOWN HEARST W T P (OPER SWITCH IN 79'	SURFC SOURCE CHEM TREATMENT CHLORINATION	2.460 (11.183)	MATTAWISHKWIA RIVER	MINISTRY
HILTON BEACH VILLAGE HILTON BEACH WELL SUPPLY	GROUND SOURCE	.030 (.136)		MUNICIPALITY
IROQUOIS FALLS TOWN ABITIBI PRICE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.900 (4.091)	ABITIBI RIVER	MUNICIPALITY
KAPUSKASING TOWN KAPUSKASING WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	2.160 (9.819)		MUNICIPALITY
KIRKLAND LAKE TOWN SWASTIKA WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION FLUORIDATION	.360 (1.637)	BLANCHE RIVER	MUNICIPALITY
KIRKLAND LAKE TOWN KIRKLAND LAKE AND CHAPUT HUGHES PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	12.400 (56.370)	GULL LAKE	MUNICIPALITY
LARDER LAKE TOWNSHIP LARDER LAKE WELL SUPPLY	GROUND SOURCE	.576 (2.618)		MUNICIPALITY
LATCHFORD TOWN LATCHFORD WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.144 (.655)	MONTREAL R	MINISTRY
LITTLE CURRENT TOWN LITTLE CURRENT PLANT	SURFC SOURCE CHLORINATION	.597 (2.714)	LAKE HURON	MUNICIPALITY
MASSEY TOWN MASSEY PLANT	SURFC SOURCE CHLORINATION	.836 (3.800)	AUX SABLE RIVER	MUNICIPALITY
MATACHEWAN IMPROVEMENT DISTRICT MATACHEWAN WELL SUPPLY	GROUND SOURCE CHLORINATION	.040 (.182)		MUNICIPALITY
MATTAWA TOWN MATTAWA WELL SUPPLY	GROUND SOURCE	1.080 (4.910)		MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
MCDOUGALL TOWNSHIP NOBEL SUPPLY (WELLS FAILED.IN 81)	(WATER IS SUPPLIED BY) GROUND SOURCE	.144 (.655)	(C.I.L. WATER PLANT)	MUNICIPALITY
MCDOUGALL TOWNSHIP CIL PLANT	SURFC SOURCE CHLORINATION	3.300 (15.002)	GEORGIAN BAY	MUNICIPALITY
MCGARRY TOWNSHIP VIRGINIATOWN KEARNS PLANT	SURFC SOURCE CHLORINATION	.864 (3.928)	LARDER LAKE	MUNICIPALITY
MICHIPICOTEN TWP TOWNSHIP MICHIPICOTEN PLANT	SURFC SOURCE CHLORINATION	2.440 (11.092)	WAWA LAKE	MINISTRY
MISSANABIE UNORGANISED TWP MISSANABIE PLANT (AUSTIN LUMBER)	SURFC SOURCE CHLORINATION	.010 (.045)	DOG LAKE	MUNICIPALITY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE W T P (OLD TOWNSITE)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.150 (.682)	STORE CREEK	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSONEE NORTH W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.144 (.655)	BUTLER CREEK	MINISTRY
MOOSONEE DEV'L AREA BD DEVELOPMENT AREA MOOSE FACTORY W T P (ENV CAN)(ISLAND)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	.070 (.318)	MOOSE RIVER	MINISTRY
NEW LISKEARD TOWN NEW LISKEARD WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	1.620 (7.365)		MUNICIPALITY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE WELL SUPPLY	GROUND SOURCE CHLORINATION	3.280 (14.911)		MUNICIPALITY
NICKEL CENTRE TOWN GARSON WELL SUPPLY	GROUND SOURCE	2.013 (9.151)		MUNICIPALITY
NORTH BAY CITY NORTH BAY PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	30.000 (136.380)	TROUT LAKE	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
NORTH SHORE TOWNSHIP CLEMENTS SUPPLY	(WATER IS SUPPLIED BY)	(	(SPANISH HOLDINGS)	MUNICIPALITY
NORTH SHORE TOWNSHIP MITCHELL SUPPLY	(WATER IS SUPPLIED BY)	(	(SPANISH HOLDINGS)	MUNICIPALITY
NORTH SHORE TOWNSHIP WEATHERLY SUPPLY	(WATER IS SUPPLIED BY)	(	(SPANISH HOLDINGS)	MUNICIPALITY
NORTH SHORE (SHEDDEN) TOWNSHIP SPANISH HOLDINGS WELL SUPPLY	GROUND SOURCE	.070 (.318)		MUNICIPALITY
NORTH HIMSWORTH TOWNSHIP CALLANDER WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT CHLORINATION	.115 (.523)		MINISTRY
NORTH SHORE TOWNSHIP SERPENT RIVER PLANT	SURFC SOURCE CHLORINATION	.100 (.455)	SERPENT RIVER	MUNICIPALITY
ONAPING FALLS TOWN ONAPING WELL SUPPLY (FALCONBRIDGE)	GROUND SOURCE CHLORINATION	1.150 (5.228)		MUNICIPALITY
ONAPING FALLS TOWN LEVACK WELL SUPPLY*(RE-CHARGE FROM RIVER	GROUND SOURCE CHEM TRTMT	2.160 (9.819)	*(ONAPING RIVER)	MUNICIPALITY
ONAPING FALLS TOWN DOWLING WELL SUPPLY (NEW IN 81) 211665	GROUND SOURCE CHLORINATION	.790 (3.591)		MUNICIPALITY
PARRY SOUND TOWN PARRY SOUND PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	2.000 (9.092)	GEORGIAN BAY	MUNICIPALITY
PENTLAND (TWP) UNORGANISED TWP KIOSK HAMLET PLANT	SURFC SOURCE CHLORINATION	.576 (2.618)	AMABLE DU FOND CREEK	MUNICIPALITY
POITRAS TOWNSHIP THORNE HAMLET PLANT	SURFC SOURCE CHLORINATION	.576 (2.618)	MC DOUGALL CREEK	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
POWASSAN TOWN POWASSAN WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.288 (1.309)	GENESEE CREEK	MUNICIPALITY
RATTER & DUNNETT TOWNSHIP WARREN HAMLET WELL SUPPLY	GROUND SOURCE	.144 (.655)		MINISTRY
RAYSIDE BALFOUR TOWN RAYSIDE BALFOUR SUPPLY	(WATER IS SUPPLIED BY)	(	(BLEZARD VALLEY W S S)	MUNICIPALITY
SAULT STE MARIE CITY SAULT STE MARIE PLANT & WELL SUPPLY	SURFC SOURCE GROUND SOURCE CHLORINATION	16.000 (72.736)	ST. MARY'S RIVER	MUNICIPALITY
SHACKLETON AND MACHIN TOWNSHIP FAUQUIER WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.083 (.377)	GROUNDHOG RIVER	MINISTRY
SMOOTH ROCK FALLS TOWN SMOOTH ROCK FALLS (ABITIBI WTP)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	4.170 (18.957)	MATTAGAMI RIVER	MUNICIPALITY
SOUTH RIVER VILLAGE SOUTH RIVER WELL SUPPLY	GROUND SOURCE CHLORINATION	.240 (1.091)		MUNICIPALITY
STURGEON FALLS TOWN STURGEON FALLS WTP	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	1.730 (7.865)	STURGEON RIVER	MUNICIPALITY
SUDBURY CITY COPPERCLIFF WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	10.000 (45.460)	VERMILION RIVER	MUNICIPALITY
SUDBURY CITY SUDBURY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	10.999 (50.001)	RAMSEY LAKE	MUNICIPALITY
SUDBURY CITY WANAPITEI WTP (TO MUN IN 80)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	8.139 (37.000)	WANIPITEI RIVER	MUNICIPALITY
TEMAGAMI TOWNSHIP OLD TOWNSITE PLANT	SURFC SOURCE CHLORINATION	.288 (1.309)	LAKE TEMAGAMI	MUNICIPALITY

NORTHEASTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
TEMAGAMI TOWNSHIP NEW TOWNSITE PLANT	SURFC SOURCE CHLORINATION	.245 (1.114)	NET LAKE	MUNICIPALITY
THESSALON TOWN THESSALON PLANT	SURFC SOURCE CHLORINATION	1.296 (5.892)	LAKE HURON	MUNICIPALITY
TIMMINS CITY PORCUPINE AND POTTSVILLE WELL SUPPLY	GROUND SOURCE CHLORINATION	.274 (1.246)		MUNICIPALITY
TIMMINS CITY WHITNEY & TISDALE WELL SUPPLY	GROUND SOURCE CHLORINATION FLUORIDATION	1.200 (5.455)		MUNICIPALITY
TIMMINS CITY TIMMINS WATER SUPPLY SYSTEM	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	6.000 (27.276)	MATTAGAMI RIVER	MUNICIPALITY
TIMMINS CITY SCHUMACHER SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION FLUORIDATION	(	(TIMMINS W S S)	MUNICIPALITY
TIMMINS CITY MOUNTJOY SUPPLY	(WATER IS SUPPLIED BY) CHLORINATION	(	(TIMMINS W S S)	MUNICIPALITY
VALLEY E/RAYSIDE-B'LFOUR TOWN BLEZARD VALLEY W S S (TO MUN IN 81)	GROUND SOURCE CHEM TRTMT CHLORINATION	4.222 (19.193)		MUNICIPALITY
WALDEN TOWN CREIGHTON SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPERCLIFF W T P)	MUNICIPALITY
WALDEN TOWN LIVELY SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPERCLIFF W T P)	MUNICIPALITY
WHITE RIVER IMPROVEMENT DISTRICT WHITE RIVER PLANT	SURFC SOURCE CHLORINATION	.800 (3.637)	LITTLE TUKANEE LAKE	MINISTRY
WICKSTEED TOWNSHIP HORNEPAYNE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION FLUORIDATION	.650 (2.955)		MINISTRY

Northeastern Region

WATER TREATMENT

Regional Municipalities

Regional Municipalities	Capacity
SUDBURY	
	Total

REGIONAL MUNICIPALITY OF SUDBURY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
CAPREOL TOWN CAPREOL WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT	1.758 (7.992)		MUNICIPALITY
CHAPLEAU TOWNSHIP CHAPLEAU W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.200 (5.455)	KEBESQUASING RIVER	MINISTRY
NICKEL CENTRE TOWN FALCONBRIDGE TOWNSITE WELL SUPPLY	GROUND SOURCE NO TREATMENT CHLORINATION	3.280 (14.911)		MUNICIPALITY
NICKEL CENTRE TOWN GARSON WELL SUPPLY	GROUND SOURCE NO TREATMENT	2.013 (9.151)		MUNICIPALITY
ONAPING FALLS TOWN ONAPING WELL SUPPLY (FALCONBRIDGE)	GROUND SOURCE NO TREATMENT CHLORINATION	1.150 (5.228)		MUNICIPALITY
ONAPING FALLS TOWN LEVACK WELL SUPPLY*(RE-CHARGE FROM RIVER	GROUND SOURCE CHEM TRTMT	2.160 (9.819)	*(ONAPING RIVER)	MUNICIPALITY
ONAPING FALLS TOWN DOWLING WELL SUPPLY (NEW IN 81)	GROUND SOURCE NO TREATMENT CHLORINATION	.790 (3.591)		MUNICIPALITY
RAYSIDE BALFOUR TOWN RAYSIDE BALFOUR SUPPLY	(WATER IS SUPPLIED BY)	(	(BLEZARD VALLEY W S S)	MUNICIPALITY
SUDBURY CITY COPPERCLIFF WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	10.000 (45.460)	VERMILION RIVER	MUNICIPALITY
SUDBURY CITY SUDBURY WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	10.999 (50.001)	RAMSEY LAKE	MUNICIPALITY
SUDBURY CITY WANAPITEI WTP (TO MUN IN 80)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	8.139 (37.000)	WANIPITEI RIVER	MUNICIPALITY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD (10^3 M)	WATERCOURSE	OPERATED BY
VALLEY E/RAYSIDE-BALFOUR TOWN BLEZARD VALLEY W S S (TO MUN IN 81)	GROUND SOURCE CHEM TRTMT CHLORINATION	4.222 (19.193)		MUNICIPALITY
WALDEN TOWN CREIGHTON SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPERCLIFF W T P)	MUNICIPALITY
WALDEN TOWN LIVELY SUPPLY	(WATER IS SUPPLIED BY)	(	(COPPERCLIFF W T P)	MUNICIPALITY
TOTAL CAPACITY		45.712 (207.807)		

NORTHEASTERN REGION

Area Water Supply Systems

Total Area Water Supply Systems	Total Capacity	
2	10.200	MIGD
	(46.500	$1000M^3$)

AREA WATER SUPPLY SYSTEMS

SYSTEM: BLEZARD VALLEY WATER SUPPLY SYSTEM

Number of Plants: ONE (SIX WELLS) Number of Municipalities Served: TWO

Operated By: THE REGIONAL MUNICIPALITY OF SUDBURY

PLANT LOCATION	TREATMENT	CAPACITY	MUNICIPALITIES SERVED	SOURCE
VALLEY EAST TOWN	Screening Chlorination	4.2 MIGD (19.2 $1000M^3$)	Valley East Town Rayside-Balfour Town	Ground

SYSTEM: TIMMINS WATER SUPPLY

Number of Plants: ONE Number of Municipalities Served: ONE

Operated By: MUNICIPALITY

PLANT LOCATION	TREATMENT	CAPACITY (MIGD)	MUNICIPALITIES SERVED	SOURCE
TIMMINS CITY (Timmins W T P)	Screening Coagulation Flocculation Sedimentation Filtration Chlorination	6.0 MIGD (27.3 $1000M^3$)	Timmins (Mountjoy) (Schumacher)	Mattagami R.

Ministry of the Environment
Ontario

Northwestern Region

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REGIONAL OFFICE
THUNDER BAY
435 James St. S.
P.O. Box 5000
807-475-1205

DISTRICT OFFICE
Kenora
808 Robertson St.
807-468-5578

Ministry of the Environment
Ontario

Northwestern Region

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TREATMENT TYPE	<----------NUMBER---------->			<-------- ** CAPACITY MIGD (10^3 M^3) ---------->		
	MINISTRY	MUNICIPAL	TOTAL	MINISTRY	MUNICIPAL	TOTAL
GROUND SOURCE	3	1	4	2.100	1.332	3.432 (15.602)
GROUND SOURCE PHYSCL TRTMT	0	1	1	.000	2.304	2.304 (10.474)
GROUND SOURCE CHEM TRTMT	1	0	1	1.200	.000	1.200 (5.455)
SURFC SOURCE	1	10	11	.400	67.082	67.482 (306.773)
SURFC SOURCE PHYSCL TREATMT	0	1	1	.000	.414	.414 (1.882)
SURFC SOURCE PHYS & CHEM TRTMT	4	6	10	2.960	21.501	24.461 (111.200)
**** TOTALS ****	9	19	28	6.660 (30.276)	92.633 (421.110)	99.293 (451.386)

** MIGD: MILLIONS OF IMPERIAL GALLONS PER DAY
10^3 M^3 : THOUSANDS OF CUBIC METRES

CONVERSION FACTOR:
1 MGD = 4.546 10^3 M^3

NORTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
ATIKOKAN TOWNSHIP ATIKOKAN PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	3.100 (14.093)	ATIKOKAN RIVER	MUNICIPALITY
BAIRD TOWNSHIP MADSEN WELL SUPPLY	GROUND SOURCE CHLORINATION	.300 (1.364)	RUFFETT LAKE	MINISTRY
BALMERTOWN IMPROVEMENT DISTRICT COCHENOUR TOWNSITE PLANT	SURFC SOURCE CHLORINATION	1.730 (7.865)	BRUCE CHANNEL (RED LAKE)	MUNICIPALITY
BALMERTOWN IMPROVEMENT DISTRICT BALMERTOWN TOWNSITE PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	2.600 (11.820)	SANDY BAY (RED LAKE)	MUNICIPALITY
BEARDMORE TOWNSHIP BEARDMORE WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.550 (2.500)	BLACKWATER RIVER	MINISTRY
CARAMAT UNORGANISED TWP CARAMAT WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.144 (.655)	CARAMAT LAKE	MUNICIPALITY
DRYDEN TOWN DRYDEN WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION FLUORIDATION	3.000 (13.638)	WABIGOON LAKE	MUNICIPALITY
EAR FALLS TOWNSHIP EAR FALLS WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.000 (4.546)	ENGLISH RIVER	MINISTRY
EMO TWP TOWNSHIP EMO WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.090 (.409)	RAINY RIVER	MINISTRY
FORT FRANCES TOWN FORT FRANCES PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	3.500 (15.911)	RAINY LAKE	MUNICIPALITY
GERALDTON TOWN GERALDTON W T P	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.320 (6.001)	REESOR LAKE	MINISTRY
IGNACE TOWNSHIP IGNACE TOWNSITE WELL SUPPLY	GROUND SOURCE CHEM TRTMT CHLORINATION	1.200 (5.455)		MINISTRY

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
KENORA TOWN KENORA (MAIN PLANT) NEW PLANT IN 1979	SURFC SOURCE CHLORINATION FLUORIDATION	5.850 (26.594)	LAKE OF THE WOODS	MUNICIPALITY
LONGLAC TOWNSHIP LONGLAC WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	1.600 (7.274)	LONG LAKE	MUNICIPALITY
MACHIN TOWNSHIP VERMILLION BAY PLANT - TO MUN 81	SURFC SOURCE CHLORINATION	.300 (1.364)	EAGLE LAKE	MUNICIPALITY
MANITOUWADGE TOWNSHIP MANITOUWADGE WELL SUPPLY	GROUND SOURCE PHYSCL TRTMT	2.304 (10.474)		MUNICIPALITY
MARATHON TOWNSHIP MARATHON WELL SUPPLY	GROUND SOURCE	1.332 (6.055)		MUNICIPALITY
NAKINA TOWNSHIP NAKINA WELL SUPPLY	GROUND SOURCE CHLORINATION	1.080 (4.910)		MINISTRY
NIPIGON TOWNSHIP NIPIGON W T P	SURFC SOURCE PHYSCL TREATMENT CHLORINATION	.414 (1.882)	NIPIGON RIVER	MUNICIPALITY
PICKLE LAKE TOWNSHIP PICKLE LAKE WELL SUPPLY	GROUND SOURCE CHLORINATION	.720 (3.273)		MINISTRY
RAINY RIVER TOWN RAINY RIVER WTP (MOE SUPERVISED)	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.537 (2.441)	RAINY RIVER	MUNICIPALITY
RED LAKE TOWNSHIP RED LAKE PLANT	SURFC SOURCE CHLORINATION	.400 (1.818)	SKOOKUM BAY (RED LAKE)	MINISTRY
RED ROCK TOWNSHIP RED ROCK WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	.720 (3.273)	NIPIGON BAY (L SUPERIOR	MUNICIPALITY
SCHREIBER TOWNSHIP SCHREIBER PLANT	SURFC SOURCE CHLORINATION	.922 (4.191)	COOK'S LAKE	MUNICIPALITY

NORTHWESTERN REGION

MUNICIPALITY	SOURCE & TREATMENT	CAPACITY MIGD ($1000M^3$)	WATERCOURSE	OPERATED BY
SIOUX LOOKOUT TOWN SIOUX LOOKOUT PLANT	SURFC SOURCE CHLORINATION FLUORIDATION	1.080 (4.910)	PELICAN LAKE	MUNICIPALITY
TERRACE BAY TOWNSHIP TERRACE BAY PLANT	SURFC SOURCE CHLORINATION	36.000 (163.656)	LAKE SUPERIOR	MUNICIPALITY
THUNDER BAY CITY THUNDER BAY BARE POINT WTP	SURFC SOURCE PHY & CHEM TRTMT CHLORINATION	15.500 (70.463)	THUNDER BAY (L SUPERIOR)	MUNICIPALITY
THUNDER BAY CITY LOCH LOMOND PLANT	SURFC SOURCE CHLORINATION	12.000 (54.552)	LOCH LOMOND LAKE	MUNICIPALITY

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