



Regional Municipality of Halton
Sustainable Halton Water and Wastewater Master Plan
VOLUME 3 – Public Consultation

October 2011



Regional Municipality of Halton

Volume III – Public Consultation

Prepared by:

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Project Number:

60114062

Date:

October 6, 2011

Introduction

Volume III - Public Consultation Report Outline

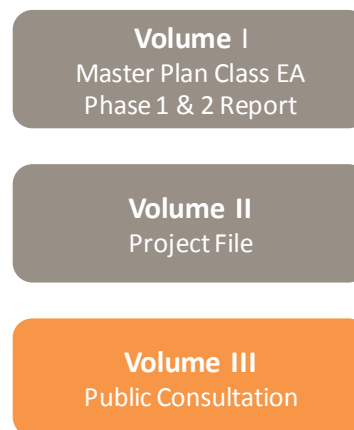
The Public Consultation File provides the complete documentation of the Public Consultation process that was undertaken throughout the duration of the Master Plan Study. All notices, letters, public information centre (PIC) display panels, attendance sheets, comments, and responses are provided in *Volume III – Public Consultation*.

The Project is the third of three volumes that comprises the Master Plan documentation, as shown in the figure below.

Volume III – Public Consultation has been organized as follows:

- **Notice of Study Commencement**
- **Master Contact List**
- **Public Information Centres**
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 - PIC 1 – Notice
 - PIC 1 – Summary Report
 - PIC 1 – Display Boards
 - PIC 1 – Sign-in Sheets
 - PIC 1 – Comments
 - PIC 1 – Questionnaires & Reply Forms
 - PIC 1 – Responses
 - Public Information Centre #2
 - PIC 2 – Notice
 - PIC 2 – Summary Report
 - PIC 2 – Display Boards
 - PIC 2 – Sign-in Sheets
 - PIC 2 – Comments
 - PIC 2 – Questionnaires & Reply Forms
 - PIC 2 – Responses
- **Technical Advisory Committee Meetings**
 - Technical Advisory Committee #1
 - Technical Advisory Committee #2
 - Review Agencies External TAC
- **Study Completion**
 - Notice of Study Completion
 - Response Letters
 - Comments / Response Matrix
- **Government/ Agencies**
 - Consultation
 - Letters Received
 - Letters Sent
- **Other Documentation**

Volume III in Context of the Overall Master Plan Documentation



NOTICE OF STUDY COMMENCEMENT AND PUBLIC INFORMATION CENTRE #1

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

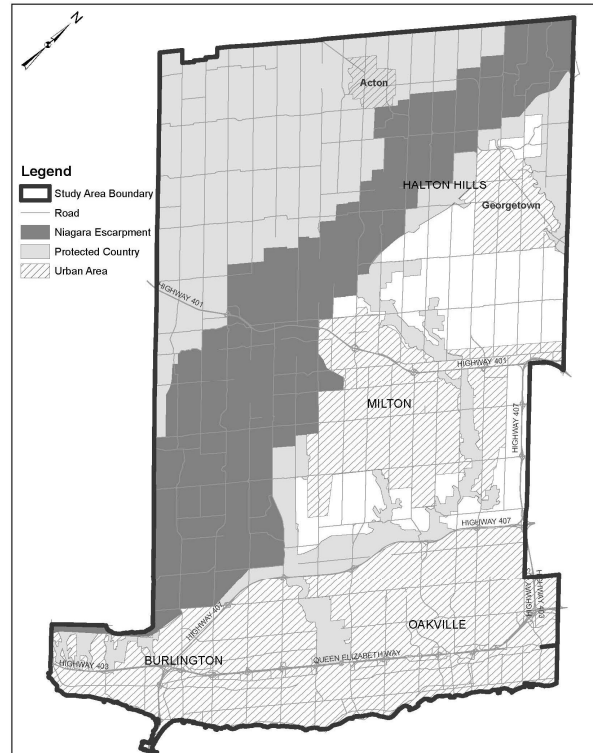
Background

Halton Region has initiated a Region-wide Water and Wastewater Master Plan under the Sustainable Halton process to identify a preferred servicing strategy to support growth to the year 2031.

This strategy will accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Growth Plan (2005). In accordance with the Places to Grow Act (2005), the residential and employee population in Halton Region is expected to grow by 300,000 and 170,000 respectively.

This Master Plan will consolidate information related to previous Studies and Master Plans for north and south Halton, including the 2008 South Halton Water and Wastewater Master Plan Update which was prepared to address the water and wastewater servicing needs within the 2021 planning horizon. The recommendations from previous Master Plans will be reviewed in the context of the current regulatory environment and planning estimates.

The study area for the Sustainable Halton Water and Wastewater Master Plan (refer to map) includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor).



Problem Statement

To develop a comprehensive strategy for providing water and wastewater servicing to existing and approved growth areas in Halton Region to 2031.

The Process

This notice signals the commencement of the Sustainable Halton Water and Wastewater Master Plan – a study which will define existing problems/opportunities, consider and evaluate solutions, and identify a preferred water and wastewater servicing strategy to the year 2031. The Study follows the approved master planning process as outlined in Section A.2.7 (Approach #2 in Appendix 4) of the Municipal Engineer's Association (MEA) Municipal Class Environmental Assessment (October 2000 as amended in 2007). The Master Plan will fulfill the requirements for Schedule A, A+, and B projects and become the basis for future investigations for specific Schedule C projects that are proposed within.

A key component of the study will be consultation with interested stakeholders including the public, special interest groups and regulatory agencies. The study work plan provides for two rounds of Public information Centers (PICs) at four locations (one in each local municipality). Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study. This notice advises the public of the first round of PICs.

Public Information Centre Locations

Municipality	Date	Time	Location
Town of Milton	Wednesday, May 26, 2010	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Room 3)
City of Burlington	Thursday, May 27, 2010	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Oakville	Monday, May 31, 2010	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
Town of Halton Hills	Wednesday, June 2, 2010	6:30 - 8:30pm	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Note: If you require special accommodation for a disability at one of the above PICs, please advise the study contacts in advance of the PIC.

You are encouraged to attend the PIC and provide your comments regarding the preliminary preferred servicing concepts so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended water and wastewater servicing strategy. Comments and information regarding this study are being collected in accordance with the Freedom of Information and Protection of Privacy Act and to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

David Simpson

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

Phone: 905-825-6000, Ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Chris Hamel

Project Manager
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham Ontario
L3T 7W3

Phone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:
<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516>

NOTE: At the Town of Halton Hills PIC, an update will be provided on the Prospect Park Well Field Expansion Class EA Study (Acton Water Supply Master Plan) which is assessing an increase in the water taking from 2,272 m³ / day to 3,000 m³ / day. The Prospect Park Class EA study requirements are being satisfied through the current Sustainable Halton Water and Wastewater Master Plan. The findings to date are being considered in the development of the overall water servicing strategy for Acton.

This Notice first issued on May 21, 2010.

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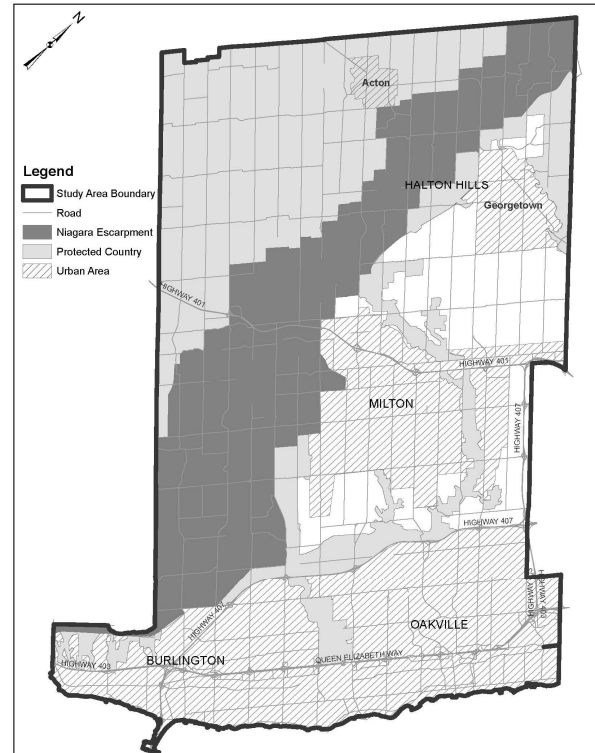
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Email: chris.hamel@aecom.com

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<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516>

This Notice first issued on May 14, 2010.

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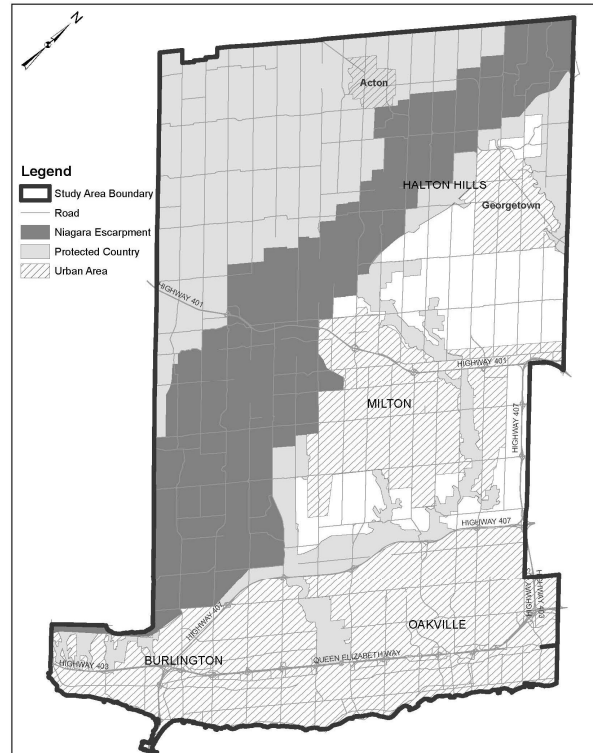
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NOTE: At the Town of Halton Hills PIC, an update will be provided on the Lindsay Court Well Field Expansion Class EA Study which is assessing an increase in the water taking from 6,545 m³ / day to 7,500 m³ / day. The Lindsay Court Class EA study is running concurrently with the Master Plan and its findings are being considered in the development of the overall water servicing strategy for Georgetown.

This Notice first issued on May, 21, 2010.

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
				1229403 Ontario Limited	1 Yorkdale Rd Suite 601	Toronto	ON	M6A 3A1
Mr.	Albert	Vitulo		1321387 Ontario Inc.	30 Moyal Court	Vaughan	ON	L4K 4R3
				1356892 Ontario Inc.	2140 King St. E	Hamilton	ON	L8K 1W6
				2020160 Ontario Inc	3275 Trafalgar Rd	Mississauga	ON	L5M 7C8
				2023743 Ontario Ltd	111 Botfield Ave	Etobicoke	ON	M9B 4E6
Mr.	Morley	Richardson		208222 Ontario Ltd & 368785 Ontario Ltd	346 Bishop CRT	Milton	ON	L9T 3N1
				2122882 Ontario Inc Trustee	411 Glenayr Rd	Toronto	ON	M5P 3C8
				368785 Ontario Limited	PO Box 98 Stn Main	Milton	ON	L9T 2Y3
				3754081 Canada Inc. Attn: Mattamy DevelopmentsS	2360 Bristol Cir	Oakville	ON	L6H 6M5
Mr.	Craig	White		407 ETR	6300 Steeles Avenue West	Woodbridge	ON	L4H 1J1
Mr.	Szavko	Rezo		618961 Ontario Ltd	4046 Alpine Court	Mississauga	ON	L5L 4X2
				810630 Ontario Limited	175 Wycroft Rd	Oakville	ON	L6J 5A2
				820236 Ontario Limited	3300 Ninth Line	Oakville	ON	L6H 7A8
				833326 Ontario Inc	407 Dundas Street West	Oakville	ON	L6H 6R8
				833625 Ontario Limited	Attn Janis Rukavina	Toronto	ON	M5H 2M8
				833626 Ontario Limited	65 Queen St W Flr 25	Toronto	ON	M5H 2M8
				854633 Ontario Ltd	1024 Bridlewood Trail	Oakville	ON	L6M 2K5
				887718 Ontario Limited	922 Dundas St E Unit A4	Mississauga	ON	L4Y 2B8
				A. Desantis Developments Ltd.	8 Main Street East, Suite 202	Hamilton	ON	L8N 1E8
				Acton Business Improvement Area	16 Mill Street East	Acton	ON	L7G 1G9
		Szoke	Chair	Affordable Housing Halton	1235 Fairview Street, Suite 162	Burlington	ON	L7S 2K9
				Aldershot Business Community BIA	452 Plains Rd. East	Burlington	ON	L7T 2E1
Ms.	Melanie	Arthur	Communications Clerk	Alderville First Nation	11696 Second Line, P.O. Box 46	Roseneath	ON	K0K 2X0
Chief	James	Marsden		Alderville First Nation	11696 2nd Line Road, P.O. Box 46	Roseneath	ON	K0K 2X0
Mr.	Dave	Simpson	Land and Resources, Communications Officer	Alderville First Nation	11696 Second Line, P.O. Box 46	Roseneath	ON	K0K 2X0
Mr.	Paul D.	Smeltzer	Principal Consultant	AMEC Earth & Environmental	3215 North Service Road	Burlington	ON	L7N 3G2
				Argo (North Oakville 1) Ltd	2173 Turnberry Rd	Burlington	ON	L7M 4P8
				Argo (North Oakville 1) Ltd	2173 Turnberry Rd	Burlington	ON	L7M 4P8
Mr.	Gord	Buck	President	Argo Development Corporation	2173 Turnberry Road	Burlington	ON	L7M 4P9
				Ashley Oaks Homes INC	922 Dundas St E Unit A-4	Mississauga	ON	L4Y 2B8
Mr.	George	Goulah	Project Manager, Outside Plant	AT&T Canada	50 Worcester Road	Etobicoke	ON	M9W 5X2
Mr.	Bobby	Bhoola		Ballantry Homes	20 Cachet Woods Crt, Suite 6	Markham	ON	L6C 3G1
				Base Ninety Developments Lim	101 Duncan Mill Rd Suite 406	North York	ON	M3B 1Z3
Ms.	Jennifer	Copegog	Lands Manager	Beausoleil First Nation	1 Ogema Street	Christian Island	ON	L0K 1C0
Chief	Rod	Monegue		Beausoleil First Nation	1 Ogema Street	Christian Island	ON	L0K 1C0
Mr.	John	La Chappelle	Manager - Municipal Relations	Bell Canada	100 Borough Drive, Floor 5 BLUE	Toronto	ON	M1P 4W2
				Belrock Construction Design Build Inc.	185 Adesso Drive	Concord	ON	L4K 3C4
				Biggar Norman Harold	191 Burnhamthorpe Rd E	Oakville	ON	L6H 7B6
Ms.	Mara	Samardzic	Planning & Policy Analyst	BILD	20 Upjohn Road, Suite 100	North York	ON	M3B 2V9
Mr.	W.	Tomosky	President	Boyne Britannia Citizens Group	Willowgrove Farm #25 Hwy	Milton	ON	L9T 2X5
				Branthaven Homes 2000 Inc.	5230 South Service Road	Burlington	ON	L7L 5K2
Mr.	Myron	Pestaluky		Bressa Development Inc.	7501 Keele St., Suite 505	Vaughan	ON	L4K 1Y2
				Bressa Development Limited	C/O Agro Zaffiro 1 James Street South	Hamilton	ON	L8P 4R5
				Bronte Community Development	242 Main St E Suite 200	Hamilton	ON	L8N 1H5
				Bronte Village Residents Association (BVRA)	38 Timber Lane	Oakville	ON	L6L 2Z3
				Bucci Giuseppe Giovanni	3480 Ninth Line	Oakville	ON	L6H 7A9
Mr.	Ray	Bucci		Bucci Homes	427 Montmorency Court	Hamilton	ON	L8K 6K8
Ms.	Paula	Tenuta	Municipal Government Relations	Building Industry and Land Development Association	20 Upjohn Road, Suite 100	North York	ON	M3B 2V9
Mr.	Glenn	Wellings	Chair - Halton Chapter	Building Industry and Land Development Association	564 Emerald Street	Burlington	ON	L7R 2N8
Ms.	Sue	Brown	Chair	Burlington Bikeway Committee	c/o City of Burlington Via Courier	Burlington	ON	
		Hoey	President	Burlington Chamber of Commerce	3385 Harvester Road	Burlington	ON	L7N 3N2
				Burlington Downtown Business Association	414 Locust Street, Suite 202	Burlington	ON	L7S 1T7
Mr.	Shayne	Mintz	Chief	Burlington Fire Department	1255 Fairview Street	Burlington	ON	L7S 1Y3
				Burlington Green	443 Pearl Street, Apt.202	Burlington	ON	L7R 2N2
Mr.	Joe	Saunders	Manager of Engineering	Burlington Hydro Incorporated	1340 Brant Street	Burlington	ON	L7R 3Z7
Ms.	Patty	Terry	President	Burlington Runners	P O Box 71037 Maplehurst Postal Outlet	Burlington	ON	L7T 2E0
Ms.	Lisa	Coleman	Chair	Burlington Transit Advisory Committee				

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Ms.	Julie Anne	Roberts	Water Resources Technician & Project Coordination	C. Valley Construction Ltd.	1255 Old Derry Road	Mississauga	ON	L5N 6R4
Mr.	Ted	Valeri		C. Valley Construction Ltd.	2140 King Street East	Hamilton	ON	L8K 1W6
Mr.	Tony	Gallace		C/O Garden Park Homes	800 Arrow Road, Unit 6	Weston	ON	M9M 2Z6
	Jamie	Bowers		Canadian Association of Retired Persons (CARP)	2389 Hereford Crescent	Burlington	ON	L7P 1X2
Ms.	Louise	Knox	Director Ontario Regional Office	Canadian Environmental Assessment Agency	55 St. Clair Avenue Room 907	Toronto	ON	M4T 1M2
	Karen	Fleming	Senior Counsel and Corporate Secretary	Canadian Pacific Railway	401 9th Avenue South West, Suite 920, Gulf Canada Square	Calgary	AB	T2P 4Z4
Mr.	Paul	Kerry	Area Manager	Canadian Pacific Railway	1290 Central Parkway West, Suite 800	Mississauga	ON	L5C 4R3
Mr.	Orest	Rojik	Area Manager Support	Canadian Pacific Railway	1291 Central Parkway West, Suite 800	Mississauga	ON	L5C 4R3
Mr.	Kenneth	Ing		Canwood Fashion Group Inc.	5284 Fifth Lane	Milton	ON	L9T 2X8
				Carillion Construction Canada	80 North Queen Street	Toronto	ON	M8Z 5Z6
				Carson Reid Homes Ltd.	183 Dufferin Street	Guelph	ON	N1H 6N1
				Central Esquering Ratepayers Association	10507 6th Line	Georgetown	ON	L7G 4S5
				Charleston Homes	P.O. Box 760	Rockwood	ON	N0B 2K0
Mr.	Gino	Chiaravalle		Chiaravalle Developments Inc.	52 Hildegard Drive	Hamilton	ON	L8K 5R9
Chief	Donna	Big Canoe		Chippewas of Georgina Island	RR 2 PO Box N-13	Sutton West	ON	L0E 1R0
Mr.	Dan	Shilling		Chippewas of Mnjikaning First Nation (Rama)	5884 Rama Road Suite 200	Rama	ON	L0K 1T0
Chief	Ralph	Akiwenzie		Chippewas of Nawash First Nation	RR 5	Warton	ON	N0H 2T0
Chief	Sharon	Stinson Henry		Chippewas of RAMA First Nation	5884 Rama Road Suite 200	Rama	ON	L0K 1T0
				City Clerk	77 James Street North, Suite 220	Hamilton	ON	L8R 2K3
Mr.	Michael	Won	Director, Development Engineering Services	City of Brampton	2 Wellington Street West, 3rd Floor	Brampton	ON	L6Y 4R2
Mr.	Reg	Bainbridge	Senior Technician - Development	City of Burlington	426 Brant Street	Burlington	ON	L7R 3Z6
Mr.	Italo	Di Pietro	Manager, Infrastructure & Data Management	City of Burlington	427 Brant Street	Burlington	ON	L7R 3Z6
Mr.	Chris	Foster	Supervisor of Transit Policy, Burlington Transit	City of Burlington	3245 Harvester Road, Unit 11	Burlington	ON	L7N 3T7
Mr.	Scott	Hamilton	Senior Engineer	City of Burlington	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Bruce	Krushelnicki	Director of Planning	City of Burlington	426 Brant Street	Burlington	ON	L7R 3Z6
Ms.	Cathy	Robertson	Director of Roads and Parks Maintenance	City of Burlington	3330 Harvester Road	Burlington	ON	L7N 3M8
Ms.	Donna	Shepherd	Director of Transit and Traffic	City of Burlington	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Paul	Smithson	Manager - Policy, Planning and Building	City of Burlington	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
				City of Burlington - Sustainable Development Committee	c/o Francine Grimshire Clerks Department	Burlington	ON	
Mr.	Udo	Ehrenberg	Manager, Infrastructure and Source Water Planning	City of Hamilton	55 John Street North, 6th Floor	Hamilton	ON	L8R 3M9
Mr.	Al	Kirkpatrick	Manager	City of Hamilton	77 James Street North, Suite 320	Hamilton	ON	L8R 2K3
Ms.	Jill	Stephen	Acting Director, Strategic Planning	City of Hamilton	77 James Street North, Suite 320	Hamilton	ON	L8R 2K3
Ms.	Wendy	Alexander	Director, Transportation and Infrastructure Planning	City of Mississauga	300 City Centre Drive	Mississauga	ON	L5B 3C1
		Burton		Clear the Air Coalition	380 Aspen Forest Drive	Oakville	ON	L6J 6H5
Ms.	Jennifer	Sloan	President	Clearview Oakville Community Alliance	1332 Eddie Shain Drive	Oakville	ON	L6J 7C9
				Clerks Office	10 Peel Centre	Brampton	ON	L6T 4B9
	Alex	Tam	Assistant Engineer	CN Engineering Services	1 Administration Road, PO Box 1000	Concord	ON	L4K 1B9
Ms.	Marissa	Crawford		CN Rail	1 Administration Road, PO Box 1000	Concord	ON	L4K 1B9
Mr.	Junior	Francis	Utilities Coordinator	CN Rail	4 Welding Way	Concord	ON	L4K 1B9
Mr.	Dave A.	Reynolds	Manager, Engineering and Environmental Services	CN Rail	1 Administration Road, PO Box 1000	Concord	ON	L4K 1B10
Ms.	Ashley	Price	Co-Chairman	Coalition To Protect Oakville Creeks	389 Chartwell Road	Oakville	ON	L6J 4A4
Ms.	Lynanne	Cane		Cogeco Cable	950 Syscon Road P O Box #5076 Station Main	Burlington	ON	L7R 4S6
Mr.	Todd	Whiteman		Cogeco Cable Systems Inc.	1200 Burloak Drive, P.O. Box 507	Burlington	ON	L7R 4S6
Mr.	Steve	Byberg	Project Manager	Cole Engineering	70 Valleywood Drive	Markham	ON	L3R 4T5
Ms.	Ann	Calderone	President	College Park Residents Association	1019 Sixth Line	Oakville	ON	L6H 1W4
Mr.	Michael	Edwardh	Executive Director	Community Development Halton	860 Harrington Court	Burlington	ON	L7N 3N4
				Community Living North Halton	725 Main St E	Milton	ON	L9T 3Z3
		Ginther		Concerned Citizens Coalition	Fire Hall #6 N Central 2022 Coral Crescent	Burlington	ON	L7P 3K5
Mr.	Bill	Griffiths		Concerned Citizens Group, New Street/Cumberland Avenue	Fire Hall #7 S Central & Cockshutt Property 3292 Old Coach Road	Burlington	ON	L7N 3P7
		President		Concerned Homeowners of Milton	784 Second Court	Milton	ON	L9T 3T3
				Con-Drain Company (1983) Ltd.	30 Floral Parkway	Concord	ON	L4K 4R1

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Mrs.	Rita	Sirois	Director of Education	Conseil Scolaire de District Catholique Centre-Sud	110 Drewry Avenue	Toronto	ON	M2M 1C8
		Bernard	Director of Education	Conseil Scolaire de District du Centre Sud-Quest	116 Cornelius Parkway	Toronto	ON	M6L 2K5
Ms.	Diane	Bloomfield		Conservation Halton	4052 Milburough Line, RR2	Campbellville	ON	L0P 1B0
Ms.	Jennifer	Lawrence	Manager	Conservation Halton	2596 Britannia Road West RR#2	Milton	ON	L9T 2X6
				Cooper Construction Ltd.	2381 Bristol Circle Suite C200	Oakville	ON	L6H 5S9
				COPE (Citizens Opposed to Paving the Escarpment)	P.O. Box 20014, 2211 Brant Street	Burlington	ON	L7P 0A4
Ms.	Renee	Brown	TEAC	Council & Committee Services Coordinator	1 Halton Hill Drive	Halton Hills	ON	
Ms.	Kim	Slessor		Country Green Homes	410 Industrial Drive	Milton	ON	L6M 3L1
Mr.	Adam	Nesbitt		Country Green Homes	410 Industrial Drive	Milton	ON	L9T 5A6
Mr.	Frank	Smedley	Water Superintendent	County of Wellington	RR#2	Hillsburgh	ON	NOB 1Z0
			Service Area Manager					
Mr.	Matt	Foot		CP Rail	2025 McCowan Road, 1st Floor - General Yark Office	Scarborough	ON	
Mr.	Andre	Lapalme		CP Rail	Suit 400 Windsor Station, P.O. Box 6042 Centre Hill	Montreal	QC	H3C 3E4
			Service Area Manager, Engineering Operations	CP Rail				
Mr.	Henry	Rubert		CP Rail	2025 McCowen Road	Scarborough	ON	M1S 5K3
Ms.	Karen	Chisholme	Plannig Ecologist	Credit Valley Conservation	1255 Old Derry Road	Mississauga	ON	L5N 6R4
Ms.	Jennifer	Dougherty	Water Quality Engineer - Engineering Rep	Credit Valley Conservation	1225 Old Derry Road	Mississauga	ON	L5N 6R4
Mr.	John	Kinhead	Director, Water Resources	Credit Valley Conservation	1255 Old Derry Road	Mississauga	ON	L5N 6R4
Ms.	Julie Anne	Lamberts	Water Resources Technician	Credit Valley Conservation	1225 Old Derry Road	Mississauga	ON	L5N 6R4
Mr.	Liam	Marray	Senior Planner/Ecologist - Planning/Policy Rep.	Credit Valley Conservation	1225 Old Derry Road	Mississauga	ON	L5N 6R4
Mr.	Gary	Murphy	Director of Planning	Credit Valley Conservation	1225 Old Derry Road	Mississauga	ON	L5N 6R4
Ms.	Cathy	McCue		Curve Lake First Nation	22 Winookeeda Road	Curve Lake	ON	K0L 1R0
Chief	Keith	Knott		Curve Lake First Nation	22 Winookeeda Road	Curve Lake	ON	K0L 1R0
Mr.	Tommaso	Dal Bello		Dal Bello Construction Company Ltd.	659 Dolby Crescent	Milton	ON	L9T 5V4
Ms.	Marija	Ilic		David Schaeffer Engineering Ltd.	600 Alden Road Suite 500	Markham	ON	L3R 0E7
				Davis-Minardi Home Corp	2363 Bristol Cir	Oakville	ON	L6H 6M8
				De Marchi Anna Maria	2490 Avongate Dr	Mississauga	ON	L5C 2X6
Mr.	Peter	Campbell		Delta Urban Inc.	7501 Keele Street, Suite 505	Vaughan, ON	ON	L4K 1Y2
Ms.	Carla	Pryde		Demarchi Homes Inc.	284 Barton Street East	Stoney Creek	ON	L8E 2K6
Mr.	Vic	Gillman	Area Manager, Fisheries and Habitat Management - Ontario	Department of Fisheries and Oceans, Bayfield Institute	867 Lakeshore Road P.O. Box 5050	Burlington	ON	L7R 4A6
Ms.	Nicole	Cheechoo	Policy Analyst, Comprehensive Claims Branch, Treaties and Aboriginal Government	Department of Indian and Northern Affairs	10 Wellington Street, 8th Floor	Gatineau	QU	K1A 0H4
				Department of Indian and Northern Affairs	10 Wellington Street, Room 1310	Gatineau	QU	K1A 0H4
				Department of Indian and Northern Affairs	25 St. Clair Avenue East, 8th Floor	Toronto	ON	M4T 1M2
				Desantis Group Developments Limited	461 Green Road	Stoney Creek	ON	L8E 5B4
				Diam Contractors Limited	111 Princess Anne Cres	Etobicoke	ON	M9A 2R1
				Docasa Group Ltd	2362 Bristol Cir	Oakville	ON	L6H 6M7
Mr.	Joe	Giacomodonato		Donato Homes Inc.	2398 Headon Road	Burlington	ON	L7M 3Y3
				D'Orazio Infrastructure Group	2787 Brighton Road	Oakville	ON	L6H 6J4
				Dorham Holdings Inc In Trust	9 Bergamot Ave Suite 216	Etobicoke	ON	M9W 1W2
Mr.	David	Schaefer		DSEL	600 Alden Rd Suite. 500	Markham	ON	L3R0E7
		Mitchell	Planning Manager	Dufferin Aggregates	2300 Steeles Avenue W 4th Floor	Concord	ON	L4K 5X6
				Dufferin Aggregates	9410 Dublin Line, P.O. Box 68	Milton	ON	L9T 4Y6
				Dundas Sixth-Line Developmen	2220 Highway 7 W Unit 5	Concord	ON	L4K 1W7
				Dunoak Developments Inc	1 Restwell Cres	North York	ON	M2K 2A1
		Snowden		East Central Residents Association	508 Bohemia Crescent	Oakville	ON	L6J 2K8
Ms.	Margaret	O'Reilly	Chairman	East Lake Ratepayers	318 Maple Grove Drive	Oakville	ON	L6J 4V5
Mr.	Romas	Kartavicius		Eden Oak Homes	1470 Hurontario Street Suite 100	Mississauga	ON	L5G 3H4
Mr.	Bruce	Fairs	Convenor	Eighth Line Residents Association	2120 Eighth Line	Oakville	ON	L6H 3Z1
Mr.	Peter	Haggith	Community Development Coordinator	Elder Services Advisory Committee	1151 Bronte Road	Oakville	ON	L6M 3L1
				Elkford Investments Inc.	361 Four Valley Dr	Concord	ON	L4K 5Z3
				Emshih Developments Inc.	895 Brant Street, Suite 7	Burlington	ON	L7R 2J6
Mr.	Russ	Adams	Manager of Distribution	Enbridge Gas Distribution	500 Consumers Road	North York	ON	M2J 1P8
		Janet		Enbridge Gas Distribution				
Ms.		Holder	President		500 Consumers Road	North York	ON	M2J 1P8
Mr.	Vince	Cina	Supervisor of Planning and Design	Enbridge Gas Distribution Inc.	500 Consumers Rd.	North York	ON	M2J 1P8

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Mr.	Kerry	Dick	Construction and Maintenance Department	Enbridge Gas Distribution Inc.	6 Colony Court	Brampton	ON	L6T 4E4
Ms.	Diana	Beaulne	Right of Way Approval Technician	Enbridge Pipelines Inc.	500 Consumers Rd.	North York	ON	M2J 1P8
Ms.	Alison	Love	Vice President and Corporate Secretary	Enbridge Pipelines Inc.	3000, 425 - 1 st Street S.W.	Calgary	ON	T2P 3L8
Ms.	Ann	Newman	Crossings Coordinator, Enbridge Pipelines Inc.	Enbridge Pipelines Ltd.	801 Upper Canada Drive P O Box 128	Sarnia	ON	N7T 7H8
Mr.	Neil	Bays		Ennisclare-On-The-Lake	2175 Marine Drive Unit 302	Oakville	ON	L6L 5L5
Mr.	Robert	Dobos	Head of Environmental Assessment Section, Great Lakes and Corporate Affairs, Environment Canada	Environment Canada	867 Lakeshore Road, P.O. Box 5050	Burlington	ON	L7R 4A6
Mr.	Derrick	Heron	Director of Land Development	Equity Development Group Corp.	245 Yorkland Boulevard, Suite 100	Toronto	ON	M2J 4W9
				Fcht Holdings (Ontario) Corp	85 Hanna Ave Suite 400	Toronto	ON	M6K 3S3
				Fengate Property Management Ltd.	499 King Stree East	Hamilton	ON	L8N 1E1
				Fernbrook Homes	2220 Highway 7 West, Unit 5	Concord	ON	L4K 1W7
Mr.	Carlo	Stefanutti	Vice President	Fieldgate Developments	5400 Yonge Street Suite 501	Toronto	ON	M2N 5R5
Mr.	Maurice	Finer		Finer Realty	1808- 61 Clair Ave. W.	Toronto	ON	M4V 2Y8
				First Gulf Development Corporation	6860 Century Avenue Suite 1000	Mississauga	ON	L5N 2W5
				Firstpro Shopping Centres	700 Applewood Crescent, Suite 100	Vaughan	ON	L4K 5X3
				Fish Arnold Pickering	1053 Burnhamthorpe Rd E	Oakville	ON	L6H 7B4
				Flavia Homes Corp.	8600 Dufferin St	Vaughan	ON	L4K 5P5
				Forest Green Homes	5332 Highway #7, 2Nd Floor	Woodbridge	ON	L4L 1T3
				Fox Farm Developments Inc	4711 Yonge St Suite 1400	Toronto	ON	M2N 7E4
		Flint	Chairman	Friends of Rural Communities and the Environment (FORCE)	Lawson Park Ltd, Box 15 RR #1	Freelton	ON	L0R 1K0
Mr.	Peter	LeBlanc		Genstar Development Company, Toronto Region	300 Valhalla Executive Centre	Etobicoke	ON	M9B 6B7
				Genstar Titleco Limited	300 The East Mall Valhalla Executive Centre	Etobicoke	ON	M9B 6B7
		Magwood		Georgetown Community Consultation Committee	42 Greystone Crescent	Georgetown	ON	L7G 1G9
		Platman		Glen Abbey Ratepayers	1324 Birchcliffe Lane	Oakville	ON	L6M 2A4
		Thomson	President	Glen Abbey Residents Association	1205 Bowman Drive	Oakville	ON	L6M 2T3
Mr.	Blake	Powell		Glen Williams Homeowners	9 Bennet Place	Glen Williams	ON	L7G 2X8
Mr.	Michael S.	Wolczyk	Manager Of Marketing And Planning	GO Transit	Suite 600 20 Bay Street	Toronto	ON	M5J 2W3
				Grand Oak Homes Inc	2837 Yonge Street	Toronto	ON	M4N 2J6
Mr.	James B.	Etienne	Source Water Resources Engineer	Grand River Conservation Authority	400 Clyde Road	Cambridge	ON	N1R 5W6
Ms.	Lorrie	Minshall	Director, Source Protection Program	Grand River Conservation Authority	400 Clyde Road P.O. Box 729	Cambridge	ON	N1R 5W6
				Graydon Banning Ltd.	2360 Bristol Cir	Oakville	ON	L6H 6M5
				Graywood Developments Ltd.	200 King Street West	Toronto	ON	M5H 3T4
Mr.	Hayden	Matthews		Great Gulf Group Of Companies	250 Lesmill Road	Don Mills	ON	M3B 2T5
Ms.	Kathleen	Macewan		Greater Tyandaga Ratepayers Association	1924 Four Seasons Drive	Burlington	ON	L7P 2Y1
				Green Ginger Developments In	3751 Victoria Park Ave C/O Great Gulf Group	Scarborough	ON	M1W 3Z4
				Greenbrook Corporation	287 Eglinton Avenue East	Toronto	ON	M4P 1L3
				Greenpark Homes	8700 Dufferin Street	Concord	ON	L4K 4S6
Mr. & M	Ron & Lori	Seiler	Chair	GreenTrans	2078 Salvator Blvd.	Oakville	ON	L6L 1N1
Ms.	Lisa	Seiler	Chair	GreenTrans	2078 Salvator Blvd	Oakville	ON	L6L 1N1
Ms.	Lisa	Tallyn		GT Independent Free Press	280 Guelph Street, Unit 29	Georgetown	ON	L7G 4B1
Mr.	Dave	Belanger	Water Supply Program Manager	Guelph Waterworks, City of Guelph	29 Waterworks Place	Guelph	ON	N1E 6P7
		Lasby		Halton 4-H Association	9045 Twiss Road, RR#2	Campbellville	ON	L0P 1B0
		Comber	HAAC Representative	Halton Agricultural Advisory Committee	1175 Bronte Road South	Milton	ON	L9T 7K6
Mr.	Doug	President		Halton Condo #83	2185 Marine Drive Suite 100	Oakville	ON	L6L 5L6
Mr.	Scott	Bland	Administration, Planning Services	Halton District Catholic School Board	802 Drury Lane P.O. Box 5308	Burlington	ON	L7R 3L1
Mr.	Keith	Pautler	Director of Education	Halton District Catholic School Board	802 Drury Lane P.O. Box 5308	Burlington	ON	L7R 3L1
Ms.	Jackie	Joudrie	Director of Education	Halton District School Board	2050 Guelph Line P O Box 5005	Burlington	ON	L7R 3Z2
Mr.	Domenico	Renzella	Manager of Planning	Halton District School Board	2050 Guelph Line, Box 5005	Burlington	ON	L7R 3Z3
Mr.	Harry	Westerhof	Manager of Planning	Halton District School Board	2050 Guelph Line, Box 5005	Burlington	ON	L7R 3Z2
Mr.	Frank L	Collins		Halton Ecological and Environmental Advisory Committee (EEAC)	1151 Bronte Road	Oakville	ON	L6M 3L1
Mrs.	Wendy	DeLoyde	Senior Planner	Halton Ecological and Environmental Advisory Committee (EEAC)	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Michelle	Shaw		Halton Ecological and Environmental Advisory Committee (EEAC)	1151 Bronte Road	Oakville	ON	L6M 3L1

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Ms.	Janet	Ferguson	Chair	Halton Elderly Services Advisory Committee	1151 Bronte Road	Oakville	ON	L6L 3M1
Ms.	Joey	Seiler	Executive Director	Halton Environmental Network	5408 Derry Road, RR#2	Milton	ON	L9T 2X6
Mr.	Marin	Massimo		Halton Hills Fibre Optics	43 Alice Street	Acton	ON	L7J 2A9
		Schumacker		Halton Hills 401/Steeles Corridor Development Association	2310 Steeles Avenue West	Mississauga	ON	L5N 2B2
		Walker	General Manager	Halton Hills Chamber of Commerce	170 Guelph Street	Georgetown	ON	L7G 4A7
Ms.	Phyllis	Shropshall		Halton Hills Community Consultation Committee	14162 Eighth Line	Georgetown	ON	L7G 4S4
Mr.	Rejean	Forbes	Seniors Co-ordinator	Halton Hills Community Support & Information	47 Mill St East	Acton	ON	L7J 1H1
Mr.	Rick	Bonnette	Mayor of Halton Hills	Halton Hills Council	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mr.	Jon	Hurst	Local Councillor	Halton Hills Council - Ward 1	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mr.	Mike	O'Leary	Local Councillor	Halton Hills Council - Ward 1	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mr.	Bryan	Lewis	Local Councillor	Halton Hills Council - Ward 2	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Ms.	Joan	Robson	Local Councillor	Halton Hills Council - Ward 2	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Ms.	Moya	Johnson	Local Councillor	Halton Hills Council - Ward 3	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mr.	David	Kentner	Local Councillor	Halton Hills Council - Ward 3	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mr.	Bob	Inglis	Local Councillor	Halton Hills Council - Ward 4	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mrs.	Ann	Lawlor	Local Councillor	Halton Hills Council - Ward 4	1 Halton Hills Drive	Georgetown	ON	L7G 5G2
Mr.	Jean-Luc	Meads		Halton Hills Fire Department	1 Halton Hills Drive	Halton Hills	ON	L7G 5G2
Mr.	Brent	Marshall	Fire Chief and Director	Halton Hills Fire Protection and Prevention Services	1 Halton Hills Drive	Halton Hills	ON	L7G 5G2
Mr.	Kurt	Durski	Senior Operations Manager	Halton Hills Hydro	43 Alice Street	Acton	ON	L7J 2A9
Ms.	Natasha	Roknic	Engineering Technician	Halton Hills Hydro	43 Alice Street	Acton	ON	L7J 2A10
Mr.	Authur	Skidmore	Chief Operating officer	Halton Hills Hydro	43 Alice Street	Acton	ON	L7J 2A10
Ms.	Patricia	Coca	Distribution Engineer	Halton Hills Hydro Engineering Dept.	43 Alice Street	Acton	ON	L7J 2A9
Mr.	Toby	Barwick		Halton Hills Village Homes Inc.	2121 Olde Base Line Road	Inglewood	ON	L0N 1K0
		Brecken		Halton Junior Farmers	6629 Milborough Line, RR#3	Campbellville	ON	L0P 1B0
	Pat	Moyle	Chief Administrative Officer	Halton Region	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Greg	Sage	Director	Halton Region Ambulance Services	1179 Bronte Road Woodlands Centre	Oakville	ON	L6M 3G1
Mr.	Keith	Bird	Regional Councillor	Halton Regional Council	1321 Cleaver Drive	Oakville	ON	L6J 1W5
Mr.	Gary	Carr	Regional Chairman	Halton Regional Council	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Rick	Craven	Regional Councillor	Halton Regional Council	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Jack	Dennison	Regional Councillor	Halton Regional Council	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Ms.	Jane	Fogal	Regional Councillor	Halton Regional Council	RR #1 Halton Hills	Georgetown	ON	L7G 4S1
Mr.	Rick	Goldring	Mayor	Halton Regional Council	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Clark	Somerville	Regional Councillor	Halton Regional Council	20 Victoria Avenue	Acton	ON	L7J 1Y9
Mr.	John	Taylor	Regional Councillor	Halton Regional Council	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Alan	Johnston	Regional Councillor	Halton Regional Council-Ward 1	2154 Hixon Street	Oakville	ON	L6L 1T4
Mr.	Allan	Elgar	Regional Councillor	Halton Regional Council-Ward 4	1320 Mapleridge Crescent	Oakville	ON	L6M 2G7
Mr.	Jeff	Knoll	Regional Councillor	Halton Regional Council-Ward 5	97 Roxton Road	Oakville	ON	L6H 6V3
Mr.	Tom	Adams	Regional Councillor	Halton Regional Council-Ward 6	1379 Matthew Street	Oakville	ON	L6H 4R2
Mr.	G	Stewart	Transportation Technician	Halton Regional Cycling Advisory Committee	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	J.P.	Crowell	Chief	Halton Regional Police Services	1151 Bronte Road P.O. Box 2700	Oakville	ON	L6M 3L1
Mr.	John	Hull	Chair	Halton Town Hall Group	2200 Fairview St., P.O. Box 62120	Burlington	ON	L7R 4H9
Mr.	Graham	Biggar	Chair	Halton/Peel Woodlands and Wildlife Stewardship	RR 2 Stn Main C/O Ministry of Natural Resources 50 Bloomington Road West	Aurora	ON	L4G 3G8
				Hamilton Conservation Authority	736-1594 RR3 838 Mineral Springs Road	Hamilton	ON	L9H 5E3
Mr.	John	Hall	RAP Coordinator	Hamilton Harbour Remedial Action Plan	c/o CCIW, PO Box 5050	Burlington	ON	L7R 4A6
Ms.	Linda	MacDonald	Vice President	Hamilton Port Authority	605 James Street North	Hamilton	ON	L8L 1K1
Mr.	Douglas	Duke	Executive Officer	Hamilton-Halton Home Builders' Association	1112 Rymal Road E	Hamilton	ON	L8W 3N7
Ms.	Liz	Matijasac	Office Administrator/Executive Assistant	Hamilton-Halton Home Builders' Association	1112 Rymal Road East	Hamilton	ON	L8N 3N7
Ms.	Cindy	McIntosh	Events/Special Events Co-ordinator	Hamilton-Halton Home Builders' Association	1112 Rymal Road East	Hamilton	ON	L8N 3N7
				Hanson Clay Brick	5155 Dundas Street, RR#1	Burlington	ON	L7R 3X4
				Hatzinicolaou George	1024 Bridlewood Trail	Oakville	ON	L6M 2K5
Ms.	Anne	Shaw	Committee Clerk	Heritage Burlington	426 Brant Street	Burlington	ON	L7R 3Z6

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Mr.	Brad	Mancuso	Records/FOI Coordinator	Heritage Halton Hills	c/o Town of Halton Hills	Halton Hills	ON	L7G 5G2
Ms.	Susan	Fisher	Planner	Heritage Milton	43 Brown Street	Milton	ON	L9T 5H2
Ms.	Jo	Seaman	Heritage Planner	Heritage Oakville	1225 Trafalgar Road	Oakville	ON	L6J 5A6
Chief	Laurie	Carr		Hiawatha First Nation	123 Paudash Street RR#2	Keene	ON	K0L 2G0
Ms.	Lori	Ritter		Hiawatha First Nation	123 Paudash St RR2	Keene	ON	K0L 260
Mrs.	Daphne	Shropshall		Hickory Falls Ratepayers' Association	R R #1	Georgetown	ON	L7G 4S4
Mr.	Jeff	Booker		Highway Engineering Services	6300 Steeles Avenue West	Woodbridge	ON	L4H 1J1
Mr.	Duncan	Lawday	President	Hornby Association of Rate Payers	12099 Steeles Avenue	Hornby	ON	L0P 1E0
				Hulme Developments Limited	2360 Bristol Cir	Oakville	ON	L6H 6M5
Ms.	Rosemarie L.	Humphries		Humphries Planning Group Inc.	216 Chrislea Road, Suite 103	Woodbridge	ON	L4L 8S5
Council	Heather	Bastien		Huron-Wendat Nation	255 Place Chef Michel Laveau	Wendake	QC	G0A 4V0
Council	Lucy	Laine		Huron-Wendat Nation	255 Place Chef Michel Laveau	Wendake	QC	G0A 4V1
Grand C	Konrad	Sioui		Huron-Wendat Nation	255 Place Chef Michel Laveau	Wendake	QC	G0A 4V0
	Jamie	Bignell		Hydro One	40 Olympic Drive	Dundas	ON	L9H 7P5
	Laura			Hydro One Inc.	185 Clegg Road			
Ms.		Giunta	Real Estate Assistant - Planning Department			Markham	ON	L6G 1B7
Mr.	Rick	Schatz	Senior Real Estate Co-ordinator	Hydro One Network Inc.	185 Clegg Road	Markham	ON	L3R 5Z5
Mr.	Brian	McCormick	Manager, Environmental Services & Approvals	Hydro One Networks Inc	483 Bay Street, North Tower 12th Floor			
						Toronto	ON	M5G 2P5
Mr.	Charles	Unhola	Planner	Hydro One Networks Inc	483 Bay Street	Toronto	ON	M5G 2P5
				Hydro One Networks Inc	Assessment & Taxation Real E	Markham	ON	L3R 5Z5
Mr.	Toni	Paolasini		Hydro One Networks Towers-Transmission	483 Bay Street	Toronto	ON	M5G 2P5
Mr.	George T.	Zajac	Planner	IBI Group	360 James St. N., Suite 200, East Wing	Hamilton	ON	L8L 1H5
Mr.	D.	Dussault		Imperial Oil	P.O. Box 1490	Fonthill	ON	L0S 1E0
Mr.	Marc-Andre	Millaire	Litigation Team Leader	INAC - Litigation Management and Resolution Branch	10 Wellington St., 25 Eddie 1430	Gatineau	QU	K1A 0H4
Ms.	Josee	Beauregard		Indian & Northern Affairs	25 Eddy Street,	Gatineau	QC	K1A 0H4
Mr.	Don	Boswell	Senior Claims Analyst	Indian and Northern Affairs	10 Wellington Street	Gatineau	QC	K1A 0H4
Mr.	Guy	Morin		Indian and Northern Affairs Canada	10 Wellington St, Room 1310	Gatineau	QC	K1A 0H4
				Indian and Northern Affairs of Canada - Comprehensive Claims				
Ms.	Louise	Trepanier	Director		10 Wellington Street	Gatineau	QC	K1O 0H4
Mr.	Franklin	Roy	Director	Indian and Northern Affairs of Canada - Litigation Management	10 Wellington Street	Gatineau	QC	K1O 0H4
				Information Burlington	2331 New Street	Burlington	ON	L7R 1J4
				Information Milton	1 Chris Hadfield Way	Milton	ON	L9T 5E3
				Information Oakville	120 Navy Street	Oakville	ON	L6J 2Z4
Mr.	John	Blakely		Interprovincial Pipe Line Inc	801 Upper Canada Drive	Sarnia	ON	N7T 7H8
				Intracorp Projects	25 Centurian Dr Suite 201	Markham	ON	L3R 5N8
Mr.	Frank	Filippo	Vice President, Development and Planning	Intracorp Projects Ltd.	25 Centurian Drive, Suite 201	Markham	ON	L3R 5N8
				Iroquois Confederacy	RR#2	Ohsweekeen	ON	N0A 1M0
				Islamic Circle Of North Amer	391 Burnhamthorpe Rd E	Oakville	ON	L6H 7B4
Ms.	Nancy	Kuehnbaum	President	Izaak Walton Fly Fishing Club	2400 Dundas Street W Unit 6, Ste 283	Mississauga	ON	L5K 2R8
					970 Lawrence Ave W			
				Jan-Sam Holdings Ltd	C/O Belmont Property Managemnt	North York	ON	M6A 3B6
Mr.	John	Jardine		Jardine Management	1916 John Nash Terrace	London	ON	N6K 5R1
Mr.	Jeff	Robinson		Jeffrey Robinson Construction Inc.	239 Malvern Rd	Burlington	ON	L7N 1B6
					42-52 Peru Rd			
				Jk Films Inc	Solicitor: John Savchuk	Milton	ON	L9T 2V7
				Joseph Brant Hospital	1230 North Shore Blvd.	Burlington	ON	L7S 1W7
					4012-4040 Rushton Cres.			
				Joshua Creek Community Devel	C/O Hardy Steinke	Mississauga	ON	L5L 4H7
		Fiorelli	President	Joshua Creek Ratepayers Inc.	P.O. Box 61031, Maple Grove Post Office	Oakville	ON	L6J 7P5
Mr.	Michael	Rodgers		Joyce Street Residents Group	2169 Joyce Street	Burlington	ON	L7R 2B6
				Kanef Group Of Companies	8501 Mississauga Rd., Suite 200	Brampton	ON	L6Y 5G8
				Kaybot Holdings Inc	14 Mississaga St	Oakville	ON	L6L 3A2
Mr.	Wayne	Isings		KEEP (Keep the Escarpment Environment Protected)	P.O. Box 512	Milton	ON	L9G 4Z1
				Kerr Street BIA	323 Kerr Street, Unit 202	Oakville	ON	L6K 3B6
				Kerr Street Merchants Association	128 Kerr Street	Oakville	ON	L6K 3A7
Ms.	Carolyn	Roe	President	Kerr Street Residents Association	136 Elmwood Road	Oakville	ON	L6K 2A7
Mr.	Jim	Vanderkooy	Principal	King's Christian Collegiate	528 Burnhamthorpe Rd W	Oakville	ON	L6M 4K6
Mr.	Keith	MacKinnon	Partner	KLM Planning Partners Inc.	64 Jardin Drive Unit 1B	Concord	ON	L4K 3P3
Mr	Ron	Young		Krpan Group	2500 Appleby Line, Suite 200	Burlington	ON	L7L 0A2

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Mr.	Nick	Inkster	Chairman	Lakeshore Woods Residents Association	397 Creek Path Avenue	Oakville	ON	L6L 6X6
				Lams Ltd.	9229 Healey Rd	Bolton	ON	L7E 5R9
Mr.	Mario	Roque		Landmart Building Corp.	911 Golf Links Road, Suite 307	Ancaster	ON	L9K 1H9
Mr.	Michael	Barton	Vice President	Landmart Homes	337 Parkridge Crescent	Oakville	ON	L6M 1A8
Mr.	Larry	Law		Law Development Group	7368 Yonge Street, Suite 308	Thornhill	ON	L4J 8H9
				Ledcor Group Of Industries	300 - 3930 Nashua Drive	Mississauga	ON	L4V 1M5
				Liari Investments Inc	815 Gana Crt	Mississauga	ON	L5S 1P2
Mr.	Richard	Laughton	President	LMC CENSOL Group	582 Hawthorne Cres.	Milton	ON	L9T 4N8
Mrs.	Helen	MacLeod	CEO	Local Health Integration Network (Halton/Mississauga)	700 Dorval Drive, Suite 500	Oakville	ON	L6K 3V3
				Loganbrook Holdings Inc.	5080 Timberlea Blvd Suite 201	Mississauga	ON	L4W 4M2
Mr.	Anthony	Longo		Longo Brothers Realty Inc.	3767 Nashua Drive	Mississauga	ON	L4V 1R3
Mr.	Fred	Losani		Losani Homes Ltd.	430 Mcneilly Road	Stoney Creek	ON	L8E 5E3
Ms.	Doreen	Jakaitis		Lower Base Line Ratepayers Association	1197 Lower Base Line R R #1	Hornby	ON	L0P 1E0
				Lower Fourth Limited	7501 Keele St Suite 100	Concord	ON	L4K 1Y2
				Macri Dixon Investments Inc.	2360 Bristol Cir	Oakville	ON	L6H 6M5
					C/O Orc Property Tax Dept			
				Management Board Secretariat	1 Dundas Street W	Toronto	ON	M5G 2L5
				Manaman Centre Inc.	3100 Steeles Ave E Suite 301	Markham	ON	L3R 8T3
Mr.	M	Muzzo		Marel Contractors	50 Confederation Place	Concord	ON	L4K 4T8
				Marsan Custom Homes Ltd.	2245 Burloak Drive	Burlington	ON	L7R 3X5
Mr.	Timothy	Lee		Marshall Macklin Monaghan Ltd.	7271 Milborough Line, RR#3	Campbellville	ON	L0P 1B0
				Matam Holdings Inc	2360 Bristol Cir	Oakville	ON	L6H 6M5
Mr.	Chris	Matson		Matson, McConnell Ltd.	2906A Bloor Street West	Toronto	ON	M8X 1B6
				Mattamy (Brownridge) Limited	2360 Bristol Cir	Oakville	ON	L6H 6M5
Mr.	Frank	Bon		Mattamy Development Company	2360 Bristol Circle	Oakville	ON	L6H 6M5
Mr.	Gary	Gregoris	Vice President	Mattamy Development Company	2360 Bristol Circle	Oakville	ON	L6H 6M5
				Matwood Construction Ltd.	364 Guelph Line	Burlington	ON	L7R 3L4
Mr.	Doug	McGill		Mcgill Development Services	311 Byron Street North	Whitby	ON	L1N 4N4
					C/O Melrose Investments Inc			
				Mel-Oak Developments Inc	159-167 Reynolds St.	Oakville	ON	L6J 3K8
				Menkes Developments Ltd.	4711 Yonge Street, Suite 1400	Toronto	ON	M2N 7E4
				Metis Nation of Ontario	500 Old St. Patrick St, Unit D	Ottawa	ON	K1N 9G4
				Metrontario Group	One Yorkdale Road, Suite 510	North York	ON	M6A 3A1
Mr.	Karl	Gonnsen		Metropolitan Consulting	2290 Queensway Drive	Burlington	ON	L7R 3T2
Mr.	Chris	Povell	Sr. Consultant	Metropolitan Consulting	2290 Queensway Drive	Burlington	ON	L7R 3T2
				Mil Con One Developments Limited	5400 Yonge St Suite 501	North York	ON	M2N 5R5
Ms.	Sue	Briskin		Millcroft Ratepayers Association	4128 Millcroft Park Drive	Burlington	ON	L7M 3V1
Mr.	Howard	Cheskey		Milton Bicycle Club	280 Heslop Road	Milton	ON	L9T 1B8
Ms.	Christina	Commisso		Milton Canadian Champion	555 Industrial Drive	Milton	ON	L9T 5E1
Ms.	Terri	Martin	Executive Director	Milton Chamber of Commerce	251 Main St E, Suite 104	Milton	ON	L9T 1P1
Mr.	Colin	Best	Regional Councillor	Milton Council	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Gordon	Krantz	Mayor of Milton	Milton Council	150 Mary Street	Milton	ON	L9T 6Z5
Mrs.	Sharon	Barkley	Local Councillor	Milton Council - Ward 1	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Greg	Nelson	Local Councillor	Milton Council - Ward 2	150 Mary Street	Milton	ON	L9T 6Z5
Ms.	Cindy	Lunau	Local Councillor	Milton Council - Ward 3	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Rick	Malboeuf	Local Councillor	Milton Council - Ward 4	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Arnold	Huffman	Local Councillor	Milton Council - Ward 5	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Mike	Cluett	Local Councillor	Milton Council - Ward 6	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Rick	Di Lorenzo	Local Councillor	Milton Council - Ward 7	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Zeeshan	Hamid	Local Councillor	Milton Council - Ward 8	150 Mary Street	Milton	ON	L9T 6Z5
				Milton Downtown BIA	251 Main Street East, Suite 103	Milton	ON	L9T 1P1
				Milton East Lands	200 King Street West, Box 42, Suite 1602	Toronto	ON	M5H 3T4
Mr.	Brian	Ellsworth	Fire Chief	Milton Fire Department	405 Steeles Avenue	Milton	ON	L9T 3G6
Mr.	James	Timbers	Support Services Coordinator	Milton Fire Department	405 Steeles Avenue	Milton	ON	L9T 3G6
Ms.	Carol	Gustafson		Milton Green	608 Foster Court	Milton	ON	L9T 4P1
Mr.	Jim	Steeves	Chair of Milton Green	Milton Green	288 Boustield Crescent,	Milton	ON	L9T 3G7
Mr.	Davis	Webb		Milton Heights Landowners Group	24 Queen Street East, Suite 800	Brampton	ON	L6V 1A3
Mr.	Tom	Tsampiras		Milton Hospital Land I	480 Main St	Brampton	ON	L6V 1P8
Mr.	Rob	Witham	Senior Project Engineer	Milton Main Street Homes Ltd.	80 Tiverton Crt Suite 300	Markham	ON	L3R 0G4

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Mr.	Harry L.	Edwards		Milton Mainstreet Homes (Conservatory Group)	18 Lexington Drive	Markham	ON	L3P 6V3
Mr.	Doug	Skeffington		Milton Meadows Properties Inc.	65 Royal Parkway	Woodbridge	ON	L4H 1J5
				Milton Meadows Properties LT	65 Royal Parkway	Woodbridge	ON	L4H 1J5
				Milton Mosaics Limited	410 Industrial Drive	Milton	ON	L9T 5A6
				Milton Ratepayers Association	7271 Milborough Line, RR#3	Campbellville	ON	L0P 1B0
Mr.	Nathan	Post	Chairman	Milton Residents Affected By Intermodal Lines	5484 Tremaine Road, RR#4	Milton	ON	L9T 2X5
Chief	Gary	Robertson		Milton Runners	614 Joyce Blvd	Milton	ON	L9T 3C6
Ms.	Mary Lynn	Grimwood		Milton Rural Residents Association	5144 Steeles Avenue West RR 6	Milton	ON	L9T 2Y1
Ms.	Charlene	Sharpe		Milton Transit	Town of Milton 43 Brown Street	Milton	ON	L9T 5H2
Mr.	Nick	Mongelli		Milton-Hills Ltd	7201 5 Side Rd Rr#3 Stn Main	Milton	ON	L9T 2X7
Ms.	Heather	Levecque	Manager, Consultation Unit	Ministry of Aboriginal Affairs	160 Bloor St. East, 9th floor	Toronto	ON	M7A 2E6
Mr.	David	Cooper	Manager, Agricultural Land Use	Ministry of Agriculture and Food	1 Stone Road W	Guelph	ON	N1G 4Y2
Ms.	Jackie	Van de Valk		Ministry of Agriculture and Food	6484 Wellington Road, Unit 10	Elora	ON	NOB 150
Ms.	Tamara	Anson-Cartwright	Heritage Conservation Advisor, Heritage and Libraries Branch	Ministry of Culture	400 University Avenue, 4th Floor	Toronto	ON	M7A 2R9
Mr.	Malcolm	Horne	Archaeology Review Officer	Ministry of Culture	400 University Avenue, 4th Floor	Toronto	ON	M7A 2R9
Mr.	Michael	Johnson	Manager, Culture Services Unit	Ministry of Culture	400 University Avenue, 4th Floor	Toronto	ON	M7A 2R8
Ms.	Shari	Prowse	Archaeology Review Officer - London	Ministry of Culture	900 Highbury Ave	London	ON	N5Y 1A4
	Ragini	Dayal		Ministry of Culture, Programs and Services Branch	400 University Avenue, 4th Floor	Toronto	ON	M7A 2R9
Mr.	Winston	Wong	Heritage Planner, Culture Services Unit	Ministry of Culture, Programs and Services Branch	400 University Avenue, 4th Floor	Toronto	ON	M7A 2R9
Ms.	Tija	Dirks	Director of Growth Policy, Planning and Analysis	Ministry of Energy and Infrastructure	777 Bay Street, 4th Floor	Toronto	ON	M5G 2E5
Mr.	Brad	Duguid	Minister of Energy and Infrastructure	Ministry of Energy and Infrastructure	900 Bay Street, 4th Floor Hearst Block	Toronto	ON	M7A 2E1
Mr.	Bruce	Singbush	Director, Real Estate Policy Branch	Ministry of Energy and Infrastructure	777 Bay Street, 4th Floor	Toronto	ON	M5G 2E5
Mr.	James	O'Mara	Director	Ministry of Environment, Environmental Assessment and Approvals Branch	2 St. Clair Avenue West, Floor 12A	Toronto	ON	M4V 1L5
Mr.	Ernie	Hart		Ministry of Environment, Central Region, Air, Pesticides, & Environmental Planning Unit	5775 Yonge Street, 8th Floor	Toronto	ON	M2M 4J1
Ms.	Tina	Dufresne	District Manager	Ministry of Environment, Halton-Peel District Office - Central Region	4145 North Service Rd, Ste 300	Burlington	ON	L7L 6A3
Mr.	Larry	Clay	Regional Director	Ministry of Municipal Affairs and Housing	777 Bay St, 2nd Floor	Toronto	ON	M5G 2E5
Mr.	Andrew	Doersam	Planner	Ministry of Municipal Affairs and Housing	777 Bay St, 14th Floor	Toronto	ON	M5G 2E5
Mr.	Jeremy	Fredrickson	Senior Planner	Ministry of Municipal Affairs and Housing	777 Bay St, 2nd Floor	Toronto	ON	M5G 2E6
Ms.	Bev	Hendry	Regional Director	Ministry of Municipal Affairs and Housing	777 Bay Street, 3rd Floor	Toronto	ON	M5G 2E5
Mr.	Victor	Doyle	Manager, Community Planning and Development	Ministry of Municipal Affairs and Housing, Central Municipal Services Office	777 Bay Street, 2nd Floor	Toronto	ON	M5G 2E5
Ms.	Donna	Cansfield	Minister of Natural Resources	Ministry of Natural Resources	6630- 99 Wellesley St W, 6th Flr, Whitney Block	Toronto	ON	M7A 1W3
Mr.	Sandy	Dobbyn	Zone Ecologist	Ministry of Natural Resources	659 Exeter Road	London	ON	N6E 1L3
Ms.	Jean	Enneson	Biologist	Ministry of Natural Resources	50 Bloomington Rd W	Aurora	ON	L4G3G9
Mr.	Mark	Heaton		Ministry of Natural Resources	50 Bloomington Road W	Aurora	ON	L4G 3G8
Ms.	Nancy	Mott-Allen	Senior Strategic Advisor	Ministry of Natural Resources	232 Guelph Street, 3rd Floor	Georgetown	ON	L7G 4B1
Mr.	John	Pisapio	Biologist - Aurora District	Ministry of Natural Resources	50 Bloomington Road West	Aurora	ON	L4G 3G8
Mr.	Steven	Strong	District Planner	Ministry of Natural Resources	51 Bloomington Rd W	Aurora	ON	L4G3G9
Ms.	Melinda	Thompson-Black	Species at Risk Biologist	Ministry of Natural Resources	50 Bloomington Rd W	Aurora	ON	L4G3G8
Ms.	Laurie	Eisenberg	Systems Administrator, File Assignment & Case Management Coordinator	Ministry of the Attorney General	720 Bay Street, 8th Floor	Toronto	ON	M5G 2K1
Mr.	Grant	Wedge	Council, Crown Law Office-Civil	Ministry of the Attorney General - Aboriginal Legal Issues Office	720 Bay Street, 8th Floor	Toronto	ON	M5G 2K1
Mr.	Dan	Delaquis	Environmental Resource Planner/EA Coordinator-Air, pesticides & Environmental Planning	Ministry of the Environment	5775 Yonge Street, 9th Floor	Toronto	ON	M2M 4J1
Mr.	John	Gerretsen	Minister of the Environment	Ministry of the Environment	135 St. Clair Ave W, 15th Floor	Toronto	ON	M4V 1P5

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
		Minkin	Environmental Resource Planner/EA Coordinator- Air, pesticides & Environmental Planning	Ministry of the Environment	5775 Yonge Street, 8th Floor	Toronto		M2M 4J1
Mr.	Dan						ON	
Ms.	Sarah	Paul	Manager, Global Air Issues	Ministry of the Environment	77 Wellesley St. W, 10th Floor	Toronto	ON	M7A 2T5
Mr.	John	Wilkinson	Minister of the Environment	Ministry of the Environment	135 St. Clair Ave W, 15th Floor	Toronto	ON	M4V 1P5
Ms.	Teresa	Wagner	Heritage Planner	Ministry of Tourism and Culture	401 Bay St. Suite 1700	Toronto	ON	M7A 0A7
Mr.	Tom	Hewitt	Manager, Corridor Management Office	Ministry of Transportation	1201 Wilson Ave, 7th Fl, Bldg D	Downsview	ON	M3M 1J8
Mr.	Joseph	Lai	Senior Project Engineer	Ministry of Transportation	1201 Wilson Avenue, Bldg "D" 4th Floor	Downsview	ON	M3M 1J8
Chief	Tracy	Gauthier		Mississaugas of Scugog Island First Nation	22521 Island Road, RR#5	Port Perry	ON	L9L 1B6
Council	Kelly	LaRocca		Mississaugas of Scugog Island First Nation	22521 Island Road, RR #5	Port Perry	ON	L9L 1B6
Ms.	Margaret	Sault		Mississaugas of the New Credit First Nation	2789 Mississauga Road, RR #6	Hagersville	ON	N0A 1H0
Grand C	Thompson	Dooley		Mohawks of Akwesasne First Nation	PO Box 579	Cornwall	ON	K6H 5T3
Grand C	Michael	Mitchell		Mohawks of Akwesasne First Nation	PO Box 579		ON	K6H 5T3
Mr.	Frank	Marchio	Manager, Land Development	Monarch Corporation	2025 Sheppard Ave East Suite 1201	Toronto	ON	M2J 1V7
Mr.	Alfio	Manarin		Monmar Developments Limited	333 Humberline Drive	Toronto	ON	M9W 5X3
Mr.	Paul	Brown		MTE - More Than Engineering	3115 Harvester Road, Suite 200	Burlington	ON	L7N 3N8
Mr.	Kirk WD	Porter	Value Manager	Municipal Property Assessment Corp (MPAC)	6745 Century Avenue Ste. #1	Mississauga	ON	L5N 8C9
Mr.	Burlington	Halbach	Sales Representative	NAI Commercial Toronto	5160 Explorer Drive Suite 17	Toronto	ON	L4W 4T7
Mr.	Kenneth	Mundy	President	Neighbours Addressing St. Mildreds Expansion (NAME)	1116 Balmoral Place	Oakville	ON	L6J 2C9
				Nelson Aggregate Co. & Waynco Limited	P.O. Box 1070	Burlington	ON	L7R 4L8
Mr.	Ron	Elmhirst		Nelson Aggregates	P.O. Box 1070	Burlington	ON	L7R 4L8
Chief	Bryan	LaForme		New Credit First Nations	2789 Mississauga Road, RR #6	Hagersville	ON	N0A 1H0
				Nhd Developments Limited	3700 Steeles Ave W Suite 800	Woodbridge	ON	L4L 8M9
Mr.	Mark	Frawley	Director	Niagara Escarpment Commission	232 Guelph Street	Georgetown	ON	L7G 4B1
Mr.	David	Johnston	Planner	Niagara Escarpment Commission	232 Guelph Street	Georgetown	ON	L7G 4B1
Mr.	Ken	Whitbread	Manager	Niagara Escarpment Commission	232 Guelph Street	Georgetown	ON	L7G 4B1
Mrs.	Gwen	Turnbull	Secretary/Treasurer	Ninth Line Owners Association	5104 9th Line	Hornby	ON	L0P 1E0
Ms.	Karen	Skira	Chair	Ninth Line Owners Association (1997)	5104 Ninth Line RR#2	Hornby	ON	L0P 1E0
Ms.	Krystyn	Barbetti		Nipissing Road Ratepayers Association	843 Childs Drive	Milton	ON	L9T 4H9
				North Iroquois Ridge Residents Association	2420 Eighth Line	Oakville	ON	L6J 4Z2
				North Oakville Community Par	99 Spadina Ave Flr 5	Toronto	ON	M5V 3P8
Ms.	Lynda	Townsend Rena	Vice-President	North Oakville Management Inc	1400 Cornwall Rd Suite 2	Oakville	ON	L6J 7W5
				North West Derry Development	5400 Yonge St Suite 501	North York	ON	M2N 5R5
				North West Derry Development	5400 Yonge St Suite 303	North York	ON	M2N 5R5
				Northwood David Edward A	1490 Burnhamthorpe Rd W	Oakville	ON	L6M 4L1
				Oak Park Residents Association	175 Glenashton DRIVE	Oakville	ON	L6H 6N2
Mr.	Rob	Speers	President	Oak Park Residents' Association	175 Glenashton Road	Oakville	ON	L6H 6N2
				Oakville 23-2 Inc	7501 Keele St Suite 100	Concord	ON	L4K 1Y2
Ms.	Sandy	Sawyer	Executive Director	Oakville Chamber of Commerce	2521 Wycroft Road	Oakville	ON	L6L 6P8
				Oakville Commerce Properties	1415 Bonhill Rd Unit 1	Mississauga	ON	L5T 1R2
					P.O. Box 310 1225 Trafalgar Road			
Mr.	Rob	Burton	Mayor of Oakville	Oakville Council		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Mr.	Ralph	Robinson	Local Councillor	Oakville Council - Ward 1		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Ms.	Pam	Damoff	Local Councillor	Oakville Council - Ward 2		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Ms.	Cathy	Duddeck	Local Councillor	Oakville Council - Ward 2		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Mr.	Dave	Gittings	Local Councillor	Oakville Council - Ward 3		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Mr.	Roger	Lapworth	Local Councillor	Oakville Council - Ward 4		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Mr.	Marc	Grant	Local Councillor	Oakville Council - Ward 5		Oakville	ON	L6J 5A6
					P.O. Box 310 1225 Trafalgar Road			
Mr.	Max	Khan	Local Councillor	Oakville Council - Ward 6		Oakville	ON	L6J 5A6
				Oakville Downtown BIA	146 Lakeshore Rd. East	Oakville	ON	L6J 1H4
Mr.	Mike	Boyes	Fire Chief	Oakville Fire Department	1225 Trafalgar Road	Oakville	ON	L6J 5A6
Mr.	Richard	Boyes	Chief	Oakville Fire Department	125 Randall Street	Oakville	ON	L6J 1P3
Mr.	David	Kirwin		Oakville green	1209 Half Moon Lane	Oakville	ON	L6H 2E4

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
Mr.	Dan	Steele	Director of Engineering	Oakville Hydro	Electrical Services Division 861 Redwood Square P.O. Box 1900	Oakville	ON	L6J 5E3
Mr.	Marc	Hawkrigg	President	Oakville Lakeside Residents Association	65 Navy Street	Oakville	ON	L6J 2Z1
Mr.	Jack	Sarnecki		Oakville Lakeside Residents Association	90 Allan Street	Oakville	ON	L6J 3M9
Mr.	Norm	Paul	President	Oakville South Central Association of Residents	224 Maurice Drive	Oakville	ON	L6K 2X1
Mr.	Bob	Hanson		Oakville Sustainability Initiative	333 Balsam Drive	Oakville	ON	L6J 3X7
Mr.	Peter	Domingo		OakvilleGreen Conservation Association	2350 Grand Ravine Drive, Unit 91	Oakville	ON	L6H 6E2
Mr.	J	Benneian	President	OakvilleGreen Conservation Association Inc.	76 Inverhuron Trail	Oakville	ON	L6H 5Z7
Mrs.	Joyce	Towers		Omagh United Ratepayers Association	284 Lower Base Line West R R #1	Hornby	ON	L0P 1E0
Chief	Joel	Abram		Oneida Nation of the Thames	2212 Elm Avenue	Southwold	ON	N0L 2G0
Mr.	Jason	Mackenzie	Executive Director	Ontario Farmland Trust	50 Stone Road East, Richards Building	Guelph	ON	N1G 2W1
Mr.	John	Jeffery	Senior Researcher	Ontario Federation of Agriculture	100 Stone Road West. Ontario AgriCentre, Suite 206	Guelph	ON	N1G 5L3
Mr.	Francois	Lachance	Senior Adviser, Aboriginal and Ministry Relationships Branch	Ontario Ministry of Aboriginal Affairs	160 Bloor St. E, 9th Floor	Toronto	ON	M7A 2E6
Ms.	Carol	Neumann	Rural Planner, Environmental and Land Use Policy	Ontario Ministry of Agriculture, Food and Rural Affairs	6484 Wellington Road 7	Elora	ON	N0B 1S0
Mr.	Stephen	Hennessey	Secretary	Ontario Municipal Board	655 Bay Street, The Minto Plaza	Toronto	ON	M7G 1E5
Mr.	Brian	Huis	Parks Planning Specialist	Ontario Parks	659 Exeter Road	London	ON	N6E 1L3
Mr.	Dave	Boddington	Park Superintendent	Ontario Parks c/o Bronte Creek Provincial Park	1219 Burloak Drive	Oakville	ON	L6M 4J7
Mr.	David	Brennan	Senior VP, Law and General Counsel	Ontario Power Generation	700 University Ave, 18th Floor	Toronto	ON	M5G 1X6
Mr.	Bob	Kozapas		Ontario Power Generation, Environmental Department	700 University Avenue	Toronto	ON	M5G 1X6
Ms.	Cindy	Clarke		Ontario Power Generations	700 University Ave.	Toronto	ON	M5G 1X6
Mr.	Steve	Hounsell	Senior Environmental Advisor	Ontario Power Generations	700 University Ave.	Toronto	ON	M5G 1X6
Ms.	Lisa	Myslicki	Environmental Coordinator	Ontario Realty Corporation - Professional Services	1 Dundas Street West, Suite 2000	Toronto	ON	M5G 2L5
Chief	Richard	Chaves	Senior Marketing Manager	Ontario Realty Corporation	1 Dundas Street West, Suite 200	Toronto	ON	M7A 2R9
Mr.	Michael	Cole	Senior Planner	Ontario Realty Corporation, Ministry of Energy and Infrastructure	1 Dundas Street West, Suite 200	Toronto	ON	M5G 2L5
	Anil	Wijesooriya	General Manager, Planning, Appraisal & Surveys	Ontario Realty Corporation, Ministry of Energy and Infrastructure	1 Dundas Street West, Suite 200	Toronto	ON	M5G 2L5
Ms.	Pam	Wheaton	Director, Policy and Relationships Branch	Ontario Secretariat for Aboriginal Affairs	720 Bay Street, 4th Floor	Toronto	ON	M5G 2K1
Ms.	Cynthia	Robinson	Environment and Education Manager	Ontario Stone, Sand and Gravel Association	5720 Timberlea Blvd, Unit 13	Mississauga	ON	L4W 4W2
Mr.	Joseph	Milipar		Ontario Trillium Foundation	45 Charles St E 5th Floor	Toronto	ON	M4Y 1S2
Ms.	Mary	Bradley	President	Ontario Trucking Association	555 Dixon Road	Toronto	ON	M9W 1H8
Mr.	Gary	Kramer		Ontario Zoroastrian Communit	1187 Burnhamthorpe Rd E	Oakville	ON	L6H 7B3
Mr.	Blair	Wolk		Orlando Corporation	6205 Airport Road	Mississauga	ON	L4V 1E3
				Orlando Corporation	6205 Airport Road	Mississauga	ON	L4V 1E3
Ms.	Elaine	Adams	Manager of Distribution	P.O.W.E.R. (Protect Our Water and Environmental Resources)	P.O. Box 192	Georgetown	ON	L7G 4T1
Mr.	Michael	Bryan	Development Consultant	Paletta International Corporation	4480 Paletta Court	Burlington	ON	L7L 5R2
				Pentecostal Holding Corporate	824 Thompson Rd	Milton	ON	L9T 2X5
Ms.	Liz	Morallee		People of West Oakville Residents' Association	1564 Stationmaster Lane	Oakville	ON	L6M 3A9
				PERL (Protecting Escarpment Rural Land)	40572 Upper Brant Postal Outlet	Burlington	ON	L7P 4W1
Mr. & M	G.	Koster		Pesticide Action Burlington	5086 Walkers Line RR #2	Milton	ON	L9T 2X6
Mr.	Ken	Dymock	General Manager, Distribution	Petro Canada	3275 Rebecca St.	Oakville	ON	L6L 6N5
Mr.	Mike	Waddington		Petro Canada	3275 Rebecca St.	Oakville	ON	L6L 6N5
Mr.	Donald	Plouffe		Plouffe Developments	706 Guelph Line	Burlington	ON	L7R 3M8
Ms.	Christine	Upton		Protect our water and environmental resources (P.O.W.E.R.) group	P.O. Box 192	Georgetown	ON	L7G 4T1
				Putica Holdings Inc	3483 Sixth Line	Oakville	ON	L6H 7C6
Mr.	Patrick	Thorn		RAIDD (Residents Active in Development Decisions)	15 Orchard Boulevard	Georgetown	ON	L7G 2Y7
Ms.	Sharon	Henry	Chief	Rama First Nation	5884 Rama Road Suite 200	Rama	ON	L0K 1T0
Mr.	John	Edwards		Rambo Creek Area Residents Committee	1252 Tyrrell Street	Burlington	ON	L7P 2S1
				Rambo Creek Ratepayers Association	2085 Caroline Street	Burlington	ON	L7R 1L6
Mr.	Gilmar	Knowlton	President	RAND (Residents' Association North of Dundas)	38 Burnhamthorpe Rd.	Oakville	ON	L6J 4Z2
Mr.	Ted	Goddard		Rand Engineering	5285 Solar Drive	Mississauga	ON	L4W 5B8
Mr.	Ron	Baldesarra		Randvest Inc.	5285 Solar Drive	Mississauga	ON	L4W 5B8
Mr.	R	Reimer		Redbourne Realty Advisors Inc.	5500 North Service Road, Suite 306	Burlington	ON	L7L 6W6
Ms.	Ruth	Thoem		Redbourne Realty Advisors Inc.	5500 North Service Road, Suite 306	Burlington	ON	L7L 6W6

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
				Redthorn Company Ltd	C/O Cook Hawley Marks 189-395 Watline Ave.	Mississauga	ON	L4Z 1P3
Mr.	Dave	Andrews	Director, Wastewater Services	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Larry	Charlton	Burlington WPP Supervisor	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Doug	Corbett	Senior Planner, Current Planning	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Tim	Dennis	Director of Transportation Services	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Gord	Devine	Manager Water Treatment	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	John	Duong	Acting Manager, Wastewater Planning	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Jeff	Easson	Oakville Water Distribution	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Greg	Ellis	Manager Water Distribution	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Lynn	Gates	Manager, Divisional Planning	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Ron	Glenn	Director of Planning Services & Chief Planning Official	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Peter	Hayes	North Halton Water Operations Supervisor	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Rob	Holder	Water Distribution Maintenance	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Ryan	Jones	Operators Support Coordinator	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Mike	Linschoten	Operators Support Coordinator	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Jane	MacCaskill	Commissioner/Corporate Services and Regional Treasurer	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	John	McCardie	Water Treatments Plant Maintenance	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Ross	Mitchell	Burlington Water Distribution	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Bill	Mundy	Optimization Specialist	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Elizabeth	Netto	Communications Specialist	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Dr.	Bob	Nosal	Commissioner/Medical Officer of Health	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	David	Ohashi	Manager Wastewater Design and Construction	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Kiyoshi	Oka	Director of Water Services	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Shelley	Partridge	Senior Planner, Current Planning	Region of Halton	1151 Bronte Road	Toronto	ON	L6M 3L1
Mr.	Nicolas	Rewa	Manager Wastewater Collection	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Mark	Scinocca	Director, Financial Planning & Budgets	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Joyce	See	Director of Community Health	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Martin	Thissen	Acting Manager Wastewater Treatment	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	George	Trencs	Oakville WPP Supervisor	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	David	Trevisani	Director of Financial & Purchasing Services	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Jacqueline	Weston	Manager, Water Planning	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Mr.	Mitch	Zamojc	Commissioner, Public Works and Engineering Services	Region of Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
Ms.	Margaret	Smith	Development Project Manager	Region of Halton, Current Planning Section	1151 Bronte Rd	Oakville	ON	L6M 3L1
Mr.	Arvin	Prasad	Director, Planning Policy and Research	Region of Peel	10 Peel Centre Drive, Suite A - 6th Floor	Brampton	ON	L6T 4B9
Mr.	Ric	Robertshaw	Director of Wastewater Services	Region of Peel	10 Peel Centre Drive, Suite A - 4th Floor	Brampton	ON	L6T 4B9
Mr.	Mark	Schiller	Director of Water Services	Region of Peel	10 Peel Centre Drive, Suite A - 4th Floor	Brampton	ON	L6T 4B9
Ms.	Tina	Detaramani	Planner	Region of Peel	10 Peel Centre Drive	Brampton	ON	L6T 4B9
Mrs.	Blair	Lancaster	Regional Councillor	Regional and City Burlington Council, Ward 6	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mrs.	Marianne	Meed	Regional Councillor	Regional Council, Burlington, Ward 2	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Paul	Sharman	Regional Councillor	Regional Council, Burlington, Ward 5	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6
Mr.	Tony	Lambert	Regional Councillor	Regional Council, Milton Wards 1, 6, 7, 8	150 Mary Street	Milton	ON	L9T 6Z5
Ms.	Angie	Compilas		Remax	17 Mcmaster Street	Georgetown	ON	L7G 5G7
Mr.	Randy	Peddigrew		Remington Group	7501 Keele Street, Ste 100	Vaughan	ON	L4K 1Y2
Mr.	Sam	Stern		Retail Plaza Inc.	330 - 620 Wilson Avenue	Toronto	ON	M3K 1Z3
Ms.	Leslie	Patrick	President	River Oaks Association of Residents (ROAR)	2504 Sixth Line	Oakville	ON	L6H 5Z8
		Matson		River Oaks Group	23 Lesmill Road		ON	M3B 3P6
Mr.	Darryl	Dimitroff		Rogers Cable	3573 Wolfdale Rd	Mississauga	ON	L5C 3T6
				Roman Catholic Episcopal Cor	600 Spring Gardens Rd	Burlington	ON	L7T 1J1
				Rosart Properties Inc	226 South Service Rd E	Oakville	ON	L6J 2X5
Mr.	Tys	Theysmeyer		Royal Botanical Gardens	680 Plains Road West	Burlington	ON	L7T 4H4
				Royal Botanical Gardens	680 Plains Road West	Burlington	ON	L7T 4H4
				Sargent Farms Limited	6529 Regional Road 25	Milton	ON	L9T 2X5
Mr.	Dale	Downey		Sernas Associates	141 Brunel Road	Mississauga	ON	L4Z 1X3
Mr.	Gordon	Patterson	Principal	Sernas Group	141 Brunel Road	Mississauga	ON	L4Z 1X3
Mr.	Paul K.	Smith	Real Estate Manager	Shell Canada Products Limited	600 - 90 Sheppard Ave. E	Toronto	ON	M2N 6Y2

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
				Shellrock Developments Ltd.	80 Tiverton Crt, Suite 300	Markham	ON	L3R 0G4
				Sherborne Lodge Developments	2360 Bristol Cir	Oakville	ON	L6H 6M5
				Sheridan Hills Missionary Ch	3301 Trafalgar Rd	Oakville	ON	L6H 7C1
Ms.	MacColl	Kim		Shipp Corporation Limited	4 Robert Speck Parkway, Suite 380	Mississauga	ON	L4Z 1S1
Ms.	Kim	MacColl		Shipp Corporation Limited	4 Robert Speck Parkway, Suite 380	Mississauga	ON	L4Z 1S1
Mr.	Gordon	Shipp	President	Shipp Corporation Limited	Suite 380 4 Robert Speck Parkway	Mississauga	ON	L4Z 1S1
Mr.	Paul	Silvestri		Silvestri Investments	21 King Street West #809 P.O. Box 66	Hamilton	ON	L8P 4W7
Mr.	Paul	General	Manager, Six Nations Eco Centre	Six Nations Elected Council	PO Box 5000	Ohsweken	ON	N0A 1M0
Sub-Ch	Leroy	Hill		Six Nations Haudenosaunee Confederacy Council	RR #2	Ohsweken	ON	N0A 1M0
Ms.	Lana	Hill		Six Nations of the Grand River	1695 Chiefswood Road, PO Box 5000	Ohsweken	ON	N0A 1M0
Chief	William	Montour		Six Nations of the Grand River	1695 Chiefswood Road, PO Box 5000	Ohsweken	ON	N0A 1M0
Mr.	Ken	Gruber	Chairman	Skyway Neighbourhood Association	5475 Lakeshore Rd, Unit 93	Burlington	ON	L7L 1E1
Mr.	Mark	Pavkovic	Land Acquisition & Development	South Georgetown Landowners Group	291 Edgeley Boulevard Suite # 1	Concord	ON	L4K 3Z4
Mr.	Ken	Morrison		South Peel Naturalists	336 Palmer Avenue	Oakville	ON	L6J 1T3
				South Point Ratepayers Association	1265 Sable Drive	Burlington	ON	L7S 2J5
Mr.	Robert	Spagnolo		South Pointe Ratepayers Association	1265 Sable Drive	Burlington	ON	L7S 2J5
Mr.	Chris	Best	Executive Director	Southern Ontario Gateway Council	1 Jarvis Street, Suite 202	Hamilton	ON	L8R 3J2
				Southwest Central Oakville Residents Association (SKORA)	200 North Service Rd. West, Unit 1, Suite 550	Oakville	ON	L6M 2Y1
				Stan Vine Construction Inc	120 Overbrook Pl Suite 111	North York	ON	M3H 4P8
Ms.	Nancy	Mather		Stoneybrook Consulting	1595 Sixteenth Ave., Suite 301	Richmond Hill	ON	L4B 3N9
Mr.	David	Vrhovnik	Director of Project Management	Summerwood Estates Inc.	5135 Tomken Road	Mississauga	ON	L4W 1P1
				Sundial Homes	4576 Yonge Street, Suite 500	Toronto	ON	M2N 6N4
				Svia Homes Ltd	390 Bay Street, Suite 920	Toronto	ON	M5H 2Y2
				T L M P T Ontario Ltd	24 Buxton Rd	North York	ON	M3M 1Y5
				T Shevchenko Museum and Memo	1614 Bloor St W	Toronto	ON	M6P 1A7
				Tarion Warranty Corporation	5160 Yonge Street, 12Th Floor	Toronto	ON	M2N 6L9
Mr.	Karl	Reichert		Tarlock Sandhu	8073 Appleby Line	Milton	ON	L9T 2Y1
				Tarmac Canada Inc.	80 North Queen Street	Etobicoke	ON	M8Z 5Z6
Mr.	Bob	Quick	Access Tactical Engineer	Telus	82 Locust Street	Kitchener	ON	N2H 1W9
				The Bar West Realty Corp	2361 Bristol Cir	Oakville	ON	L6H 6M6
Mr.	John	Lindhart	Director of Planning	The Coporation of the Town of Halton Hills	1 Halton Hills Drive	Halton Hills	ON	L7G 5G2
Mr.	Steve	Grace	Manager of Development Engineering	The Corporation of the Town of Halton Hills	1 Halton Hills Drive	Halton Hills	ON	L7G 5G2
Mr.	Chris	Mills	Director of Engineering and Public Works	The Corporation of the Town of Halton Hills	1 Halton Hills Drive	Halton Hills	ON	L7G 5G2
				The Corporation of the Town of Halton Hills	1 Halton Hills Drive	Halton Hills	ON	L7G 5G2
Mr.	Gerald	Asa		The Effort Trust Company	242 Main Street East	Hamilton	ON	L8N 1H5
Mr.	J.	Griffin		The Erin Mills Dev. Corp.	500 - 7501 Keele Street	Concord	ON	L4K 1Y2
Mrs.	Darlene	Macdonald		The Harbour Residents Association	52 Kerr Street	Oakville	ON	L6K 3A2
Mr.	Wicklow	So		The Manaman Group	3100 Steeles Avenue East, Suite 301 Gateway Centre	Markham	ON	L3R 8T3
Chief	R. Donald	Maracle		The Mohawks of the Bay of Quinte (Tyendinaga) First Nation	Box 98 48B Bayshore Rd	Tyendinaga Moha	ON	K0K 1X0
Mr.	David	Scott	Founding Partner	The Municipal Infrastructure Group Ltd.	8800 Dufferin Street, Suite 200	Vaughan	ON	L4K 0C5
Mr.	Frances	Niblock	Editor	The New Tanner Publishing	327 Queen Street	Acton	ON	L7J 2Y5
				The Roman Catholic Episcopal	700 King St W	Hamilton	ON	L8P 1C7
				Tiffany Park Homes	601 Magnetic Dr., Unit 1	North York	ON	M3J 3J2
				Timsin Holding Corp	8700 Dufferin St	Concord	ON	L4K 4S6
				Timsin Holding Corp	8600 Dufferin St	Concord	ON	L4K 5P5
				Tobyn Park Homes Inc.	1431 Tobyn Drive	Burlington	ON	L7M 4V7
Mr.	Graham	Rice	Vice President	Total Developments International Inc.	2000 Argenta Road Suite 302, Plaza One	Mississauga	ON	L5N 1P7
Mr. & M	Mark & Christine	Lacombe	TEAC	Town Environmental Advisory Committee - Chair Person	29 Grey Owl Run	Georgetown	ON	L7G5Z7
Mr.	Craig	Campbell	Director, Public Works & Engineering	Town of Caledon	6311 Old Church Road	Caledon	ON	L7C 1J6
Mr.	Martin	Bateson	Manager, Development Engineering	Town of Milton	150 Mary Street	Milton	ON	L9T 6Z5
Mr.	Paul	Cripps	Director of Engineering Services	Town of Milton	43 Brown Street	Milton	ON	L9T 5H2
Ms.	Stephanie	Jarvis	Environmental Planner	Town of Milton	43 Brown Street	Milton	ON	L9T 5H2
Mr.	Bill	Mann	Director of Planning and Development	Town of Milton	43 Brown Street	Milton	ON	L9T 5H2
Ms.	Tricia	Collingwood	Planner	Town of Oakville	PO Box 310, 1224 Trafalgar Road	Oakville	ON	L6J 5A5
Mr.	Darnell	Lambert	Director of Engineering & Construction	Town of Oakville	PO Box 310, 1224 Trafalgar Road	Oakville	ON	L6J 5A5
Mr.	Charlie	McConnell	Manager, Long Range Planning	Town of Oakville	PO Box 310, 1224 Trafalgar Road	Oakville	ON	L6J 5A7
Mr.	Rob	Thun	Senior Planner	Town of Oakville	PO Box 310, 1224 Trafalgar Road	Oakville	ON	L6J 5A7

Title	First Name	Last Name	Job Title	Organization	Address	City	Province	Postal Code
				Town of Oakville				
Mr.	Dan	Dolan	Treasurer	Trafalgar Chartwell Residents Association	PO Box 310, 1224 Trafalgar Road	Oakville	ON	L6J 5A5
				Trafalgar Road (Oakville) De	233 Cross Avenue, Unit C-4 Box 177	Oakville	ON	L6J 2W9
				Trafalgar Road (Oakville) De	242 Main St E Suite 200	Hamilton	ON	L8N 1H5
Mr.	Don	Young	President	Trafalgar-Chartwell Residents' Association	233 Cross Ave, Unit C-4, Box 177	Oakville	ON	L6J 2W9
Mr.	Bob	Tytler	Senior Land Representative	Trans Canada Pipeline	11200 Weston Road	Maple	ON	L6A 1S7
Ms.	Katherine	Lange		Trans Canada Pipelines	11200 Weston Road P O Box 790	Maple	ON	L6A 1S7
Mr.	Don	DeGrandis	Vice President and Corporate Secretary	TransCanada Pipelines	450 First Street, South West, PO Box 790	Calgary	AB	T2P 5H1
Mr.	Dale	Odwyer		TransCanada Pipelines	450 First Street, South West, PO Box 790	Maple	ON	L6A 1S7
Mr.	Barry	Cole	Director of Transit Services	Transit Services	480 Wycroft Road, P.O. Box 310	Oakville	ON	L6J 5A6
Mr.	Satish	Kumar	Coordinator - Crossings and Facilities	Trans-Northern Pipelines Ltd	45 Vogell Road Suite 310	Richmond Hill	ON	L4B 3P6
Mr.	Walter	Watt	Property Administrator	Trans-Northern Pipelines Ltd	45 Vogell Road Suite 310	Richmond Hill	ON	L4B 3P6
				Tribaden Investments Inc	2365 Bristol Cir	Oakville	ON	L6H 6M10
Mr.	Colin	McGregor	Vice President, Land Development	Trinison Management Corp.	8600 Dufferin Street	Vaughan	ON	L4K 5P5
Mr.	Michael	Telawski	Development Manager	Trinison Management Corp.	8600 Dufferin Street	Vaughan	ON	L4K 5P5
Mr.	Bob	Thomson	Chair, Ontario Council, Greg Clark Chapter	Trout Unlimited Canada	P.O. Box 1014, Station Q	Toronto	ON	M5T 2P2
Mr.	Joseph	Marra	Assistant General Counsel	Union Gas Limited	50 Keil Drive North, P.O. Box 2001	Chatham	ON	N7M 5M1
Mr.	David	Leighton	Senior Partner	Urbantech Consulting	25 Royal Crest Court, Suite 201	Markham	ON	L3R 9X4
Mr.	Paul	Sytsma		Urbantech Consulting	'25 Royal Crest Court, Ste 201	Markham	ON	L3R 9X4
Mr.	Frank	Varga		Varga, Gatka, Schuller	41 Clarinda Drive	North York	On	M2K 2W4
Chief	Blaine	Commandant		Wahta Mohawks First Nation	Box 260	Bala	ON	P0C 1A0
Ms.	Katie	Bryer	Development Intern	Walker Community Development Corp.	P.O. Box 100	Thorold	ON	L2V 3Y8
				Walmsley Douglas Peter	179 Bronte Rd	Oakville	ON	L6L 3C4
Mr.	James	Etienne	Sr. Project Manager	Water Planning, Public Works, Halton	1151 Bronte Road	Oakville	ON	L6M 3L1
				West Derry Developments Limited	5400 Youge St, Suite 501	North York	ON	M2N 5R5
Mr.	Mauro	Brophy	President	West Harbour Residents Association	67 Burnett St.	Oakville	ON	L6K 1B8
				West Harbour Residents' Association	130 Burnett St.	Oakville	ON	L6K 1C2
				West Kerr Village Residents' Association (WKVRA)				
Mr.	Robert	Poland		West Kerr Village Residents' Association (WKVRA)	406 St. Augustine Drive	Oakville	ON	L6K 3E9
Mr.	Jim	McConnell	President	West Oak Trails Association of Residents	1237 Glen Valley Road	Oakville	ON	L6M 3K1
Ms.	Margaret	De Haan	President	West River Residents Association	399 Riverside Drive	Oakville	ON	L6K 3N6
Ms.	Monique	Kowalchuk		West River Residents' Association	3 Stewart Street	Oakville	ON	L6K 1X3
				Whiteoaks Communications Gro	284 Church St	Oakville	ON	L6J 7N2
				William Kutynec Excavating A	5916 Shawson Dr	Mississauga	ON	L4W 3W5
Ms.	Karry	Sandy-McKenzi	Barrister & Solicitor- Rama First Nations	Williams Treaties First Nations	8 Creswick Court	Barrie	ON	L4M 2J7
Mr.	J.	Cowan	President	Woodlands Ratepayers	2365 Cavendish Drive	Burlington	ON	L7P 3B5
				Wooldridge Raymond	80 Peru Rd	Milton	ON	L9T 2V8
Mr.	Gary	Zukovs	President	XCG Consultants	2620 Bristol Circle, Suite 300	Oakville	ON	L6H 6Z7
Mr.	York	Gruehl		York Trafalgar Corp.	1039 Fourth Line	Milton	ON	L9T 6P9
Mr.	Peter	Meiklejohn		York Trafalgar Corp.	1039 Fourth Line	Milton	ON	L9T 6P9
				Zenon Environmental Holdings	3239 Dundas St W	Oakville	ON	L6M 4B2

PUBLIC INFORMATION CENTRE #1

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NOTICE

NOTICE OF STUDY COMMENCEMENT AND PUBLIC INFORMATION CENTRE #1

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

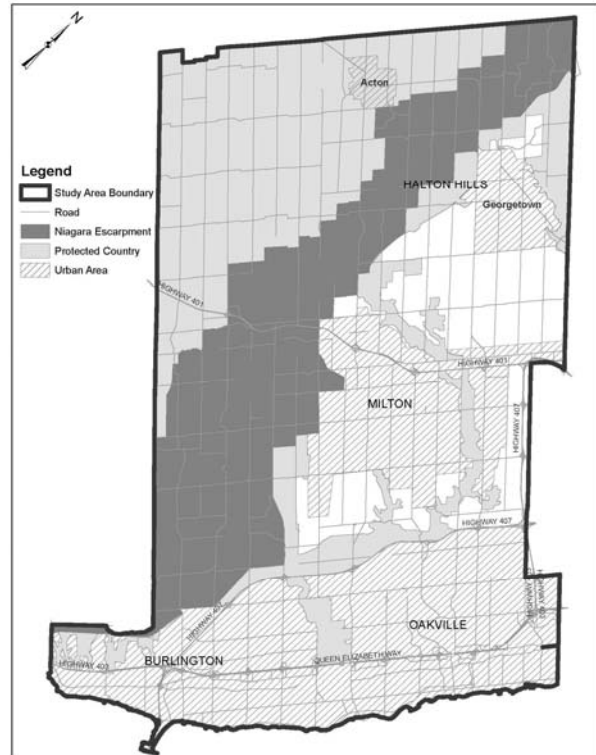
Background

Halton Region has initiated a Region-wide Water and Wastewater Master Plan under the Sustainable Halton process to identify a preferred servicing strategy to support growth to the year 2031.

This strategy will accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Growth Plan (2005). In accordance with the Places to Grow Act (2005), the residential and employee population in Halton Region is expected to grow by 300,000 and 170,000 respectively.

This Master Plan will consolidate information related to previous Studies and Master Plans for north and south Halton, including the 2008 South Halton Water and Wastewater Master Plan Update which was prepared to address the water and wastewater servicing needs within the 2021 planning horizon. The recommendations from previous Master Plans will be reviewed in the context of the current regulatory environment and planning estimates.

The study area for the Sustainable Halton Water and Wastewater Master Plan (refer to map) includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor).



Problem Statement

To develop a comprehensive strategy for providing water and wastewater servicing to existing and approved growth areas in Halton Region to 2031.

The Process

This notice signals the commencement of the Sustainable Halton Water and Wastewater Master Plan – a study which will define existing problems/opportunities, consider and evaluate solutions, and identify a preferred water and wastewater servicing strategy to the year 2031. The Study follows the approved master planning process as outlined in Section A.2.7 (Approach #2 in Appendix 4) of the Municipal Engineer's Association (MEA) Municipal Class Environmental Assessment (October 2000 as amended in 2007). The Master Plan will fulfill the requirements for Schedule A, A+, and B projects and become the basis for future investigations for specific Schedule C projects that are proposed within.

A key component of the study will be consultation with interested stakeholders including the public, special interest groups and regulatory agencies. The study work plan provides for two rounds of Public information Centers (PICs) at four locations (one in each local municipality). Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study. This notice advises the public of the first round of PICs.

Public Information Centre Locations

Municipality	Date	Time	Location
Town of Milton	Wednesday, May 26, 2010	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Room 3)
City of Burlington	Thursday, May 27, 2010	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Oakville	Monday, May 31, 2010	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
Town of Halton Hills	Wednesday, June 2, 2010	6:30 - 8:30pm	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Note: If you require special accommodation for a disability at one of the above PICs, please advise the study contacts in advance of the PIC.

You are encouraged to attend the PIC and provide your comments regarding the preliminary preferred servicing concepts so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended water and wastewater servicing strategy. Comments and information regarding this study are being collected in accordance with the Freedom of Information and Protection of Privacy Act and to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

David Simpson

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

Phone: 905-825-6000, Ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Chris Hamel

Project Manager
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham Ontario
L3T 7W3

Phone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:
<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516>

NOTE: At the Town of Halton Hills PIC, an update will be provided on the Prospect Park Well Field Expansion Class EA Study (Acton Water Supply Master Plan) which is assessing an increase in the water taking from 2,272 m³ / day to 3,000 m³ / day. The Prospect Park Class EA study requirements are being satisfied through the current Sustainable Halton Water and Wastewater Master Plan. The findings to date are being considered in the development of the overall water servicing strategy for Acton.

This Notice first issued on May 21, 2010.

NOTICE OF STUDY COMMENCEMENT AND PUBLIC INFORMATION CENTRE #1

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

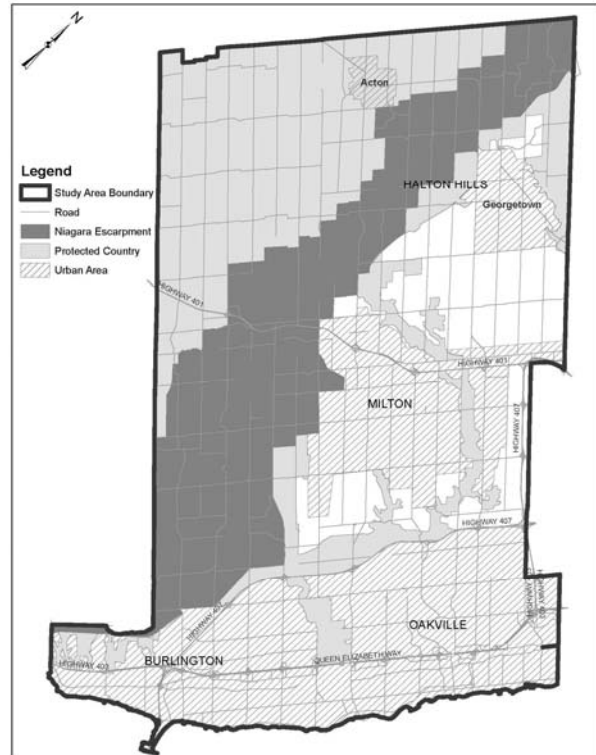
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Town of Halton Hills	Wednesday, June 2, 2010	6:30 - 8:30pm	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Note: If you require special accommodation for a disability at one of the above PICs, please advise the study contacts in advance of the PIC.

You are encouraged to attend the PIC and provide your comments regarding the preliminary preferred servicing concepts so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended water and wastewater servicing strategy. Comments and information regarding this study are being collected in accordance with the Freedom of Information and Protection of Privacy Act and to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

David Simpson

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

Phone: 905-825-6000, Ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Chris Hamel

Project Manager
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham Ontario
L3T 7W3

Phone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:
<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516>

This Notice first issued on May 14, 2010.

NOTICE OF STUDY COMMENCEMENT AND PUBLIC INFORMATION CENTRE #1

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

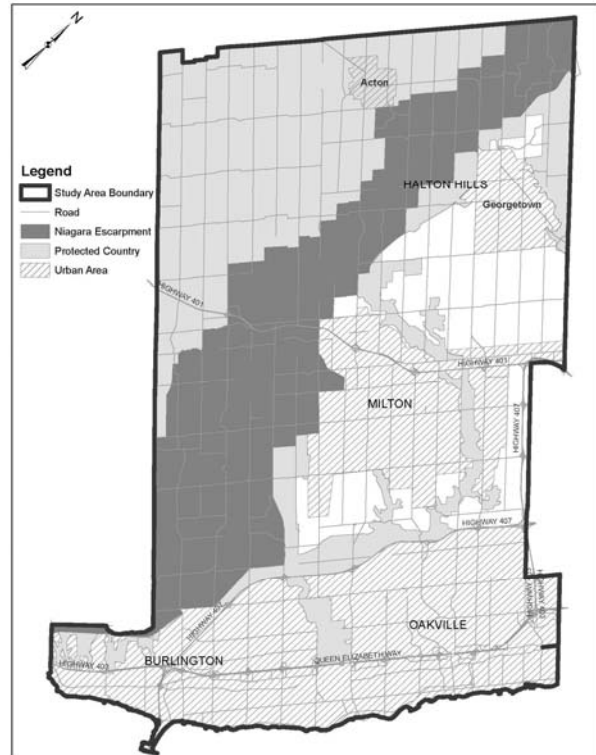
Background

Halton Region has initiated a Region-wide Water and Wastewater Master Plan under the Sustainable Halton process to identify a preferred servicing strategy to support growth to the year 2031.

This strategy will accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Growth Plan (2005). In accordance with the Places to Grow Act (2005), the residential and employee population in Halton Region is expected to grow by 300,000 and 170,000 respectively.

This Master Plan will consolidate information related to previous Studies and Master Plans for north and south Halton, including the 2008 South Halton Water and Wastewater Master Plan Update which was prepared to address the water and wastewater servicing needs within the 2021 planning horizon. The recommendations from previous Master Plans will be reviewed in the context of the current regulatory environment and planning estimates.

The study area for the Sustainable Halton Water and Wastewater Master Plan (refer to map) includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor).



Problem Statement

To develop a comprehensive strategy for providing water and wastewater servicing to existing and approved growth areas in Halton Region to 2031.

The Process

This notice signals the commencement of the Sustainable Halton Water and Wastewater Master Plan – a study which will define existing problems/opportunities, consider and evaluate solutions, and identify a preferred water and wastewater servicing strategy to the year 2031. The Study follows the approved master planning process as outlined in Section A.2.7 (Approach #2 in Appendix 4) of the Municipal Engineer's Association (MEA) Municipal Class Environmental Assessment (October 2000 as amended in 2007). The Master Plan will fulfill the requirements for Schedule A, A+, and B projects and become the basis for future investigations for specific Schedule C projects that are proposed within.

A key component of the study will be consultation with interested stakeholders including the public, special interest groups and regulatory agencies. The study work plan provides for two rounds of Public information Centers (PICs) at four locations (one in each local municipality). Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study. This notice advises the public of the first round of PICs.

Public Information Centre Locations

Municipality	Date	Time	Location
Town of Milton	Wednesday, May 26, 2010	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Room 3)
City of Burlington	Thursday, May 27, 2010	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Oakville	Monday, May 31, 2010	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
Town of Halton Hills	Wednesday, June 2, 2010	6:30 - 8:30pm	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Note: If you require special accommodation for a disability at one of the above PICs, please advise the study contacts in advance of the PIC.

You are encouraged to attend the PIC and provide your comments regarding the preliminary preferred servicing concepts so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended water and wastewater servicing strategy. Comments and information regarding this study are being collected in accordance with the Freedom of Information and Protection of Privacy Act and to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

David Simpson

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Email: chris.hamel@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:
<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516>

NOTE: At the Town of Halton Hills PIC, an update will be provided on the Lindsay Court Well Field Expansion Class EA Study which is assessing an increase in the water taking from 6,545 m³ / day to 7,500 m³ / day. The Lindsay Court Class EA study is running concurrently with the Master Plan and its findings are being considered in the development of the overall water servicing strategy for Georgetown.

This Notice first issued on May, 21, 2010.

PUBLIC INFORMATION CENTRE #1

SUMMARY REPORT

Regional Municipality of Halton

PIC Summary Report #1

Prepared by:

AECOM

105 Commerce Valley Drive West, Floor 7

Markham, ON, Canada L3T 7W3

www.aecom.com

905 886 7022 tel

905 886 9494 fax

Project Number:

60114062

Date:

June 6, 2010

Distribution List

# of Hard Copies	PDF Required	Association / Company Name

Revision Log

Revision #	Revised By	Date	Issue / Revision Description
1	L.Borowiec	June 6, 2010	Final

AECOM Signatures

Report Prepared By:



 Author Name, Designation
 Title

Report Reviewed By:



 Reviewer Name, Designation
 Title

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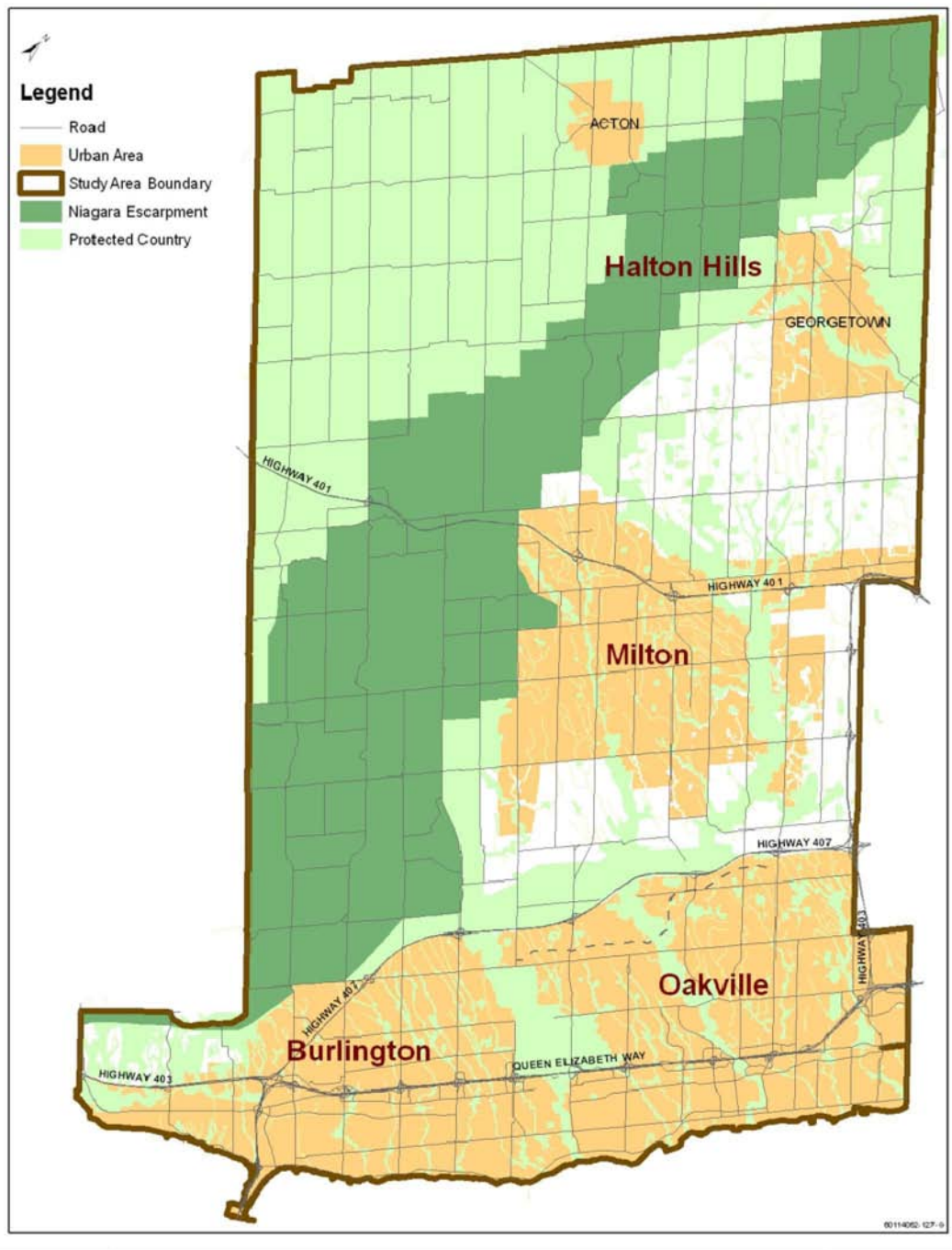
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1. Background and Introduction

Halton Region initiated the Sustainable Halton Water and Wastewater Master Servicing Plan Study in 2009 to identify a long term water and wastewater servicing strategy to support existing and approved growth in the Region. This Master Plan study is intended to update its planning and servicing vision to accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Growth Plan (2005).

The Master Plan study area includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor), as shown in Figure 1.

Figure 1 Study Area



The Master Plan Study follows the Municipal Class Environmental Assessment planning principles including public consultation and systematic evaluation of alternatives. A key part of the public consultation component is the Public Information Centre (PIC), which serves as a forum for information exchange between the public/stakeholders and the project team.

The *Public Information Centre #1 Summary Report* focuses on PIC #1 and represents one element of the overall Master Plan documentation. The report documents the following:

- Information presented at PIC #1

- Summary of attendance

- All comments received and responses provided

- Summarized table of all comments received and responses provided in order to track correspondence in a transparent and traceable manner

1.1 Class EA Context

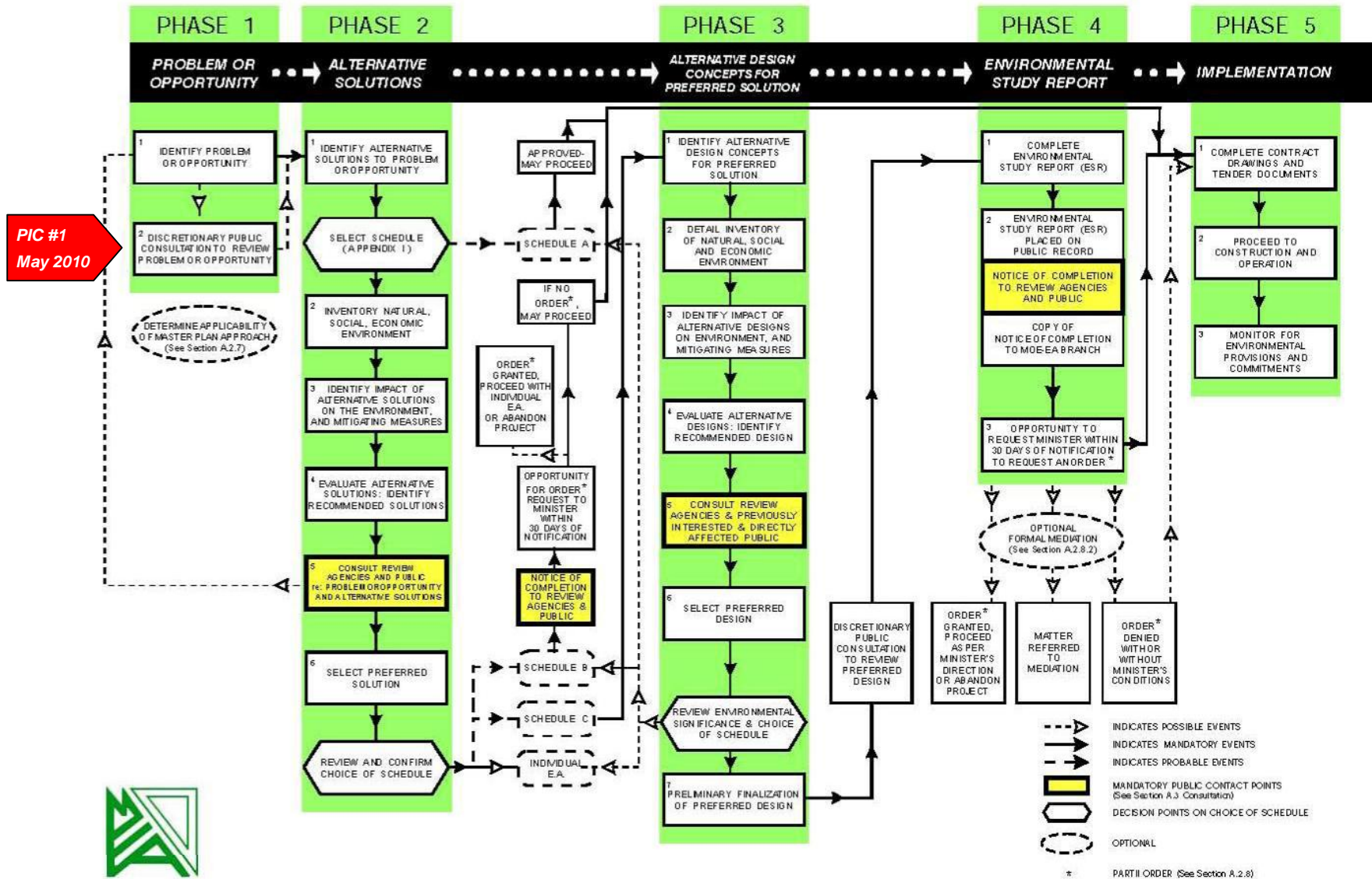
The Sustainable Halton Master Plan Study follows the approved master planning process as outlined in Section A.2.7, Appendix 4 of the Municipal Engineers Association (MEA) Municipal Class Environmental Assessment (October 2000 as amended in 2007) document. The study is following Approach #2, which involves the preparation of a Master Plan document at the conclusion of Phases 1 and 2 of the Municipal Class EA process where the level of investigation, consultation and documentation are sufficient to fulfill the requirements of schedule B projects. The Master Plan will provide the basis required for future investigations for specific Schedule C projects identified.

Public consultation is a vital component of the Class Environmental Assessment (EA) process and ensures transparency through encouraging stakeholder and public involvement. The first Public Information Centre (PIC #1) identified the problem or opportunity and introduced the study to the public. PIC #1 was held in May 2010, during Phase 1 of the Master Plan Class EA study, as shown in Figure 2.

Figure 2 Municipal Class EA Planning and Design Process

EXHIBIT A.2 MUNICIPAL CLASS EA PLANNING AND DESIGN PROCESS

NOTE: This flow chart is to be read in conjunction with Part A of the Municipal Class EA



2. Public Information Centre #1

2.1 Purpose

Public Information Centre #1 was held between May 26th and June 2nd, 2010 and was intended to:

- Introduce the study to the public
- Identify the problem and opportunity
- Outline study process and objectives
- Present baseline information such as existing environmental and servicing conditions
- Identify preliminary water and wastewater servicing opportunities and constraints
- Receive public input and answer any questions

2.2 Notifications

Stakeholders and the public were informed of PIC # 1 by newspaper advertisements and by mail. The project mailing list showing those that received the above notice by mail is included in *Volume III, PIC #1*.

2.2.1 Newspaper Advertisement

The combined Notice of Study Commencement and PIC # 1 was published in the following newspapers:

- Burlington Post
- Oakville Beaver
- Milton Champion Compass
- Georgetown Independent and Free Press
- Acton Tanner
- Halton Compass

A copy of the newspaper advertisement is included in *Volume III, PIC #1*. The notice was also posted on the Region's website: <http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516#pics1>

2.2.2 Mail Out

The Notice of Study Commencement and PIC # 1 was also mailed to local government and review agencies on May 14th, 2010.

2.2.3 E-mail

The Notice of PIC # 1 was also e-mailed on February 7th, 2011 to those who submitted contact information via e-mail only.

2.3 PIC 1 Dates, Times, and Locations

PIC #1 was held in each of the Region's four lower tier municipalities. Table 1 identifies the date, time, and location for each PIC.

Table 1 PIC 1 Dates, Times, and Locations

Municipality	Date	Time	Location
Town of Milton	Wednesday, May 26, 2010	6:30 – 8:30 p.m.	Milton Sports Centre 605 Santa Maria Boulevard (Room 3)
City of Burlington	Thursday, May 27, 2010	6:30 – 8:30 p.m.	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Oakville	Monday, May 31, 2010	6:30 – 8:30 p.m.	Halton Regional Centre 1151 Bronte Road (North Auditorium)
Town of Halton Hills	Wednesday, June 2, 2010	6:30 – 8:30 p.m.	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Representatives from Halton Region and its Consultant, AECOM, were present at each PIC to provide information and answer questions.

2.4 PIC 1 Display Panels

The information presented at PIC #1 included:

- Objectives of the PIC
- Purpose of the study
- Outline of the Municipal Class EA process
- Study area
- Map of existing environmental features within the Region
- Legislative and policy drivers
- Regional Growth Management Plan and policies
- Water and wastewater legislative compliance
- Population & employment projections
- Evaluation criteria and methodology
- Existing regional water and wastewater infrastructure
- Preliminary water and wastewater servicing concepts and evaluation
- Intensification analysis
- Other related studies and projects
- Next steps

The final display boards presented at the PIC are included in *Volume III, PIC #1*.

2.5 PIC 1 Attendance

A total of 72 people attended PIC #1, counting only those who signed in. Table 2 shows a breakdown of the number of people who attended each PIC.

Table 2 PIC 1 Attendance

Municipality	No. Attendees
Town of Milton	14
City of Burlington	5
Town of Oakville	17
Town of Halton Hills	36
TOTAL	72

2.6 Comments and Responses

Attendees were encouraged to provide comments related to the Master Plan study in writing. Comments were received via reply forms, comment sheets, emails, and letters. All comments were compiled and are provided in *Volume III, PIC #1*. Table 3 summarizes all comments received (in chronological order) prior to and after PIC # 1.

A questionnaire was also distributed to the attendees in order to gather feedback on the adequacy of the Public Information Centre. A total of seven (7) completed questionnaires were received. The following are broad conclusions based on the completed questionnaires:

- Most attendees heard about the public meeting through the newspaper ad and the notice sent in the mail
- Most attendees found the display material somewhat to very informative
- Most attendees found that the staff and consultants in attendance were very helpful
- Almost all attendees found that all their questions were answered satisfactorily


Completed questionnaires have been included in *Volume III, PIC #1*.

Table 3 Summary of Comments Received

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
1		Reply Form	-Agency is interested in providing comments, would like to remain on contact list	April 19, 2010.
2		Comment Sheet	-Suggestion that option 3A should consider a Georgetown only feed along Boivert (Hwy 7) fed by new storage tanks on Mississauga Rd. -Enquiry about Halton and Peel agreements	April 19, 2010.
3		Comment Sheet	-Expressed disappointment at the PIC boards statements on the subject of Lindsay Court Well -The same standpoint has been taken by the Region/Gartner-Lee two years ago	April 20, 2010.
4	Walter H. Watt Property Administrator Trans Northern Pipelines Inc. 45 Vogel Rd, Suite 310 Richmond Hill, ON, L48 3P6	Reply Form	-TNPI is interested in the extent of proposed watermains or sewer lines will interact with existing TNPI facilities in southern Oakville and Burlington -Crossings would be subject to National Energy Board Act and pipeline crossing regulations	May 12, 2010.
5	Nathan Stewart Transportation Technologist Halton Region Cycling Committee 1151 Bronte Road Oakville, ON, L6M 3L1	Reply Form	-Please remove from mailing list	May 13, 2010.
6	Diana Beaulne Right of Way Approval Technician Enbridge Gas Distribution Planning 500 Consumers Rd 4th Floor North York, ON, M2J 1P8	Email	-Keep updated with project -During engineering design send copies of plans per normal procedure	May 14, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
7	Dan Steele Director of Engineering Oakville Hydro P.O. Box 1900, 861 Redwood Square Oakville, ON, L6J 5EW	Reply Form	-Agency is interested in providing input into the study	May 14, 2010.
8	Cathy Roberston Director of Roads & Parks Maintenance, PO Box S013 Burlington, ON, L7R 3Z6	Reply Form	-Please advise if there are any technical agencies meetings or if the PICs are meant to be the contact points for local municipal stakeholders	May 17, 2010.
9	Jackie Van De Valk Rural Planner Ontario Ministry of Agriculture, Rural Affairs 6484 Wellington Rd, Unit 10 Elora West, ON, NOB 150	Reply Form	-Agency is interested in providing input into the study	May 17, 2010.
10	John Boich Rambo Creek Ratepayers Association 2085 Caroline St. Burlington, ON, LTR 1L6	Reply Form	-Agency is not interested in providing input regarding the study	May 20, 2010.
11	Jeff Booker Manager, Highway Engineering 407 ETR 6300 Steeles Avenue West, Woodbridge, ON, L4H 1J1	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
12	Don Boswell Senior Claims Analyst Indian & Northern Affairs. 10 Wellington Street, Gatineau, QC, K1A 0H4	Reply Form	-No facilities in Halton Region -Agency is not interested in providing input regarding the study -Remove from contact list	May 20, 2010.
13	Renee Brown	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
14	Anita Fabac Sr. Policy Analyst Region of Halton, Long Range Planning, 1151 Bronte Road, Oakville, ON, L6M 3L1	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
15	John Hall HHRAP Co-ordinator Canada Centre for Inland Waters P.O. Box 5050, Burlington, ON, L7R 4A6	Reply Form	-Interested in the Skyway WWTP	May 20, 2010.
16	Kenneth Ing Canwood Fashion Group Inc. 5284 Fifth Line, Milton, ON, L9T 2X8	Letter	-Enquiring in to personal incorporation into the municipal water system due to belief that existing well system is contaminated -Received confirmation from David Simpson of Region of Halton that property will be within the new Milton 2031 boundary	May 20, 2010.
17		Reply Form	-Agency is interested in providing input into the study	May 20, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
18	Christine Lacombe TEAC Chair Person 29 Grey Owl Run Georgetown, ON, L7G 5Z8	Reply Form	- Agency is interested in providing input into the study -Add Renee Brown to the mailing list	May 20, 2010.
19		Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
20	Jennifer Lawrence Manager, Environmental Planning Conservation Halton 2596 Britannia Rd West Milton, ON, L9T 2X7	Reply Form	- Agency is interested in providing input into the study -Particular areas of interest include; source protection, water quality and quantity, river/shoreline impacts, fish habitat impacts	May 20, 2010.
21	Liam Marray Sr. Planner/Ecologist Credit Valley Conservation 1255 Old Derry Rd Mississauga, ON, L5N 6R4	Reply Form	-Agency is interested in providing input into the study -Acton and Georgetown – potential impacts to watercourses and other natural features, assimilative capacity etc.	May 20, 2010.
22	Ann Newman Damage Prevention Team Lead Enbridge Pipelines Inc. 801 Upper Canada Dr Sarnia, ON, N7W1A3	Reply Form	-Agency is not interested in providing input regarding the study but would like to be kept informed -Enbridge Pipelines Inc. Owns and operated high pressure petroleum Pipelines within the study area and new infrastructure may impact the pipelines/ROW	May 20, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
23	Shelley Partridge/Margaret Smith Sr. Planner, Development Project Manager, Region of Halton, Current Planning Section, 1151 Bronte Rd. Oakville, ON, L6M 3L1	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
24	Dave Pitablo Paletta International Corporation 4480 Paletta Court Burlington, ON, L7L 5R2	Reply Form	- Agency is interested in providing input into the study	May 20, 2010.
25	Myron Pestaluky President Delta Urban Inc. 7501 Keele St, Suite 505 Vaughan, ON, L4K 1Y2	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
26	Chris Povell Sr. Consultant Inc. 2290 Queensway Drive Burlington, ON, l7R 3T2	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
27	Domenico Renzella Manager of Planning Halton District School Board PO Box 5005 STN LCD 1 Burlington, ON, L7R 3Z2	Reply Form	-Agency is not interested in providing input regarding the study but would like to be kept informed	May 20, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
28	Morley Richardson President 208222 Ontario Ltd & 368785 Ontario Ltd. 346 Bishop CRT Milton, ON, L9T 3N1	Reply Form	-Agency is interested in providing input into the study -Interested in information regarding the South East Corner Regional Road #25S & Derry Rd, Milton	May 20, 2010.
29	Lori Ritter Lands Resource Worker Hiawatha First Nation 123 Paudash Street RR#2 Keene, ON, K0L 260	Reply Form	-Interested in any archaeological finds or environmental concerns	May 20, 2010.
30	Ric Robertshaw Director of Wastewater Region of Peel 10 Peel Centre Drive Brampton, ON, L6T 4B9	Reply Form	-Agency is interested in providing input into the study -Interested in Water and Wastewater	May 20, 2010.
31	Jason Sheldon V.P Land Development The Remington Group Inc 7501 Keele Street, Suite 100 Vaughan, ON, L4K 1Y2	Email & Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
32	Paul Smeltzer Principal Consultant AMEC Earth & Environmental 3215 North Service Road Burlington, ON, L7N 3G2	Reply Form	-Agency is interested in providing input into the study	May 20, 2010.
33		Reply Form	-Interested in all aspects of the Master Plan	May 20, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
34	Paul Sytsma Senior Partner Urban Tech Consulting 25 Royal Crest Court, Ste 201 Markham, ON, L3R 9X4	Reply Form	-Agency is interested in providing input into the study -Water and Lands that drain into Grindstone Crescent	May 20, 2010.
35	Tys Theysmeyer Head of Conservation Royal Botanical Gardens 680 Plains Road West Burlington, ON, L7T 4H4	Reply Form	-Agency is interested in providing input into the study -Water and Lands that drain into Grindstone Crescent	May 20, 2010.
36	Jim Vanderkooy Principal King's Christian Collegiate 528 Burnhamthorpe Road West Oakville, ON, L6M 4K6	Reply Form	-Interested in when wastewater infrastructure will be provided to their site	May 20, 2010.
37	Tim Warner Vice President Mattamy Development Corporation, 2360 Bristol Circle Oakville, ON, L6H 6M5	Reply Form	-No comments	May 20, 2010.
38	Lisa Myslicki Environmental Coordinator 1 Dundas Street West, Suite 2000 Toronto, ON, M5G 2L5	Letter	-Potential negative impacts to Ontario Realty Corporation -Heritage Management process and Environmental Assessment (EA) Process -Potential triggers related to MEI's Class EA	May 21, 2010.
39	Greg Sage EMS Chief Halton Region EMS 1179 Bronte Rd Oakville, ON, L6M 4G3	Reply Form	-Agency is not interested in providing input regarding the study but would like to be kept informed.	May 21, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
40	Sarah Horwath On behalf of Scott Bland Assessment & Planning Clerk Halton Catholic District School Board 802 Drury Lane Burlington, ON, L7R 2Y2	Email & Reply Form	-No comments	May 25, 2010.
41		Comment Sheet	- Highlighted the need for good public relations/awareness -Mr. Steeves was previously involved in the groundwater/lake water mixing issue	May 26, 2010.
42		Reply Form	-Interested in alternatives to the 'big pipe' solution for Halton Hills -Requested a hard copy	May 26, 2010.
43	Daniel Delaquis Environmental Resource Planner & EA Coordinator (Air, Pesticides and Environmental Planning) 5775 Yonge Street, 9th Floor Toronto, ON, M2M 4J1	Letter	-Submittal of concerns, where the main concerns expressed were: Ecosystem Protection and restoration, surface water, groundwater, air quality, servicing and facilities, contaminated soils, mitigation and monitoring, planning and policy, Class EA Process, First Nations Consultation	May 27, 2010.
44	Josse Beauregard Indian & Northern Affairs 25 Eddy Street Gatineau, QC, K1A 0H4	Letter	-Ligation Letter	May 30, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
45	Rob Witham Senior Project Engineer MMM Group 100 Commerce Valley Drive West Markham, ON, L3T 7P8	Reply Form	-Tracking/reviewing on behalf of client – Metro Ontario	May 31, 2010.
46	Chief Sharon Stinson Henry Council, Rama First Nation 5884, Rama Road, Suite 200 Rama, ON, LOK 1T0	Letter	-PIC information was forwarded to Karry Sandy-McKenzie, Barrister & Solicitor Coordinator for Williams Treaties First Nations	June 2, 2010.
47	Douglas McGill President McGill Development Services Ltd. 311 Byron Street North Whitby, ON, L1N 4N4	Email	- Request for PIC presentation	June 2, 2010.
48	Ron Baldessarri Bandvest Inc. 5285 Solar Drive Mississauga, ON, L4W 5B8	Comment sheet & Email	-Land owner stating concerns about the potential application of expensive servicing alternatives in external areas i.e. outside north Oakville	June 3, 2010.
49	Ruth Thoem Redbourne Realty Advisors inc. 5500 North Service Road, Suite 306 Burlington, ON, L7L 6W6	Email	-Change of company name and address	June 3, 2010.
50	John Taglieri Lormel Homes 30 Pennsylvania Ave. Unit 16 Concord, ON, L4K 4A5	Email	-Request for PIC presentation	June 4, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
51	James Etienne Senior Water Resources Eng. Grand River Conservation Authority 400 Clyde Road Cambridge, ON, N1R 5W6	Letter & Reply Form	-Stated continued interest in participation of this study -Particular interest shown in the water budget issues at the boundary of Grand, Credit and Halton Watersheds -Ruling out of concept 5 where there is an interconnection with Wellington County. It is felt that if there is a intra basin transfer is required from the Grand River water shed to the Credit River Watershed would result in 'short circuiting' the flow to Lake Ontario -Inflow/infiltration (I/I) reductions have been outlined as a solution to reduce the Acton wastewater treatment capacity. If the infiltration portions of I/I have been identified as a significant quantity affecting the source of the Prospect Well, then I/I reductions should be considered as a condition of expanding the well's PTTW to ensure the ongoing sustainability of the water source.	June 4, 2010. June 5, 2010.
52		Letter	-Awaiting a copy of investigative study regarding an aquifer to be located south of 15 th Side Road between Trafalgar and the Eighth Line	June 7, 2010.
53	Clark Somerville	Email	-Requesting a copy of the full PIC presentation	June 7, 2010.
54	Diane Bloomfield Project Manager Halton- Hamilton Source Protection Region 4052 Milborough Line, RR#2 Campbellville, ON, L0P 1B0	Reply Form	-Comments to be provided through Conservation Halton	June 8, 2010.
55		Email	-Enquiry about feedback deadline dates	June 8, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
56	Douglas McGill President McGill Development Services Ltd. 311 Byron Street North Whitby, ON, L1N 4N4	Reply Form	-Recommends that the Region of Halton maximizes use and future water and wastewater infrastructure alignment, sizing, and timing of delivery to ensure efficient and cost effective delivery of water and wastewater infrastructure	June 16, 2010.
57	Paul Brown C.E.T. Director, Land Development MTE Consultants Inc. 3115 Harvester Road, Suite 200 Burlington, ON, L7N 3N8	Email	-Response on behalf of client: Orianna Glen Home Corp. Orianna owns land located south of Orianna Road between Fourth Line and Fifth Line in the Town of Milton -States that lands have been incorporated as Residential and Mixed Use Area within the Sustainable Preferred Land Use Plan (ROPA 38) which is currently awaiting Provincial Consent. Lands located immediately North, Boyne Survey Secondary Plan – Town of Milton Official Plan Amendment No.30 was approved by Town Council on June 14th, 2010 -As noted the lands are incorporated in the Preferred Land Use Plan and are immediately coincident to the existing boundary, MTE believes that the subject lands should be part of the next Secondary Plan Area in the Town of Milton	June 17, 2010.
58	Darla Fisher-Odjig (Nadeau)	Email	-Concerned about the water quality of Fairy Lake and its effect on residents health	June 28, 2010.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
59	<p>Gordon Patterson</p> <p>Principal The Sernas Group on behalf of Southwest Georgetown Landowners Group (SWGLOG) Delta Urban Inc.</p>	Letter	<p>-Written on behalf of SWGLOG who own 1000 hectares of land in the Regions identified expansion area bounded by Trafalgar Road, 15th Sideroad, Main Street/8th Line and 10th Sideroad -</p> <p>General Comments: Sernas highlight financial and phasing impacts as the most important factors. Highlighted a need for a 'critical mass' of development to support the infrastructure and a potential need for temporary works.</p> <p>-Request that Best Planning Estimates (BPE) will be released as soon as possible</p> <p>-Stated support for W5A 'Connect to the Lake based system in South Halton'</p> <p>-Shows encouragement for the development of both groundwater and lake based initiatives concurrently.</p> <p>-Georgetown WW Servicing Alternatives: Supportive of the WW3B "Trunk Sewer Diversion – Send flows to the South Halton WW System". However Sernas do show concern regarding the South Lake Wastewater concepts, pointing in particular towards the gravity flow concepts running southward from Georgetown from the 401 down Trafalgar through the Milton East expansion area. Given the large amount of development land available in Milton this may have the knock on effect of again delaying development in Georgetown again.</p> <p>-Timing: Request that the service options for Georgetown as soon as possible</p>	June 29, 2010.
60		Email	-Question regarding the extent of water withdrawn from the Lake Ontario and its natural replenishment	Nov 4, 2010.

3. Next Steps

Following the first round of public consultation, the project team will:

- Consider input received from PIC #1 and respond to comments where required
- Complete a detailed inventory of existing conditions
- Identify adequacy of existing infrastructure to meet existing and future growth
- Develop and evaluate alternative servicing strategies
- Identify a preliminary preferred servicing strategy
- Prepare for the second round of public consultation
- Host PIC #2 in early 2011 to present the preliminary preferred servicing alternatives and receive input

PUBLIC INFORMATION CENTRE #1

DISPLAY BOARDS



Serving our Communities and our Environment

Sustainable Halton Water & Wastewater Master Plan



Public Information Centre #1

Welcome to Public Information Centre #1

- Please sign in on the sheet provided.
- Our representatives will be pleased to discuss the project with you.
- Comment sheets are provided.
- Please place your completed comment sheets in the Comment Box or send them to either Mr. David Simpson or Mr. Chris Hamel by **June 14, 2010**.

Mr. David Simpson

Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1
Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel

AECOM
105 Commerce Valley Drive
Markham, Ontario L3T 7W3
Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com



Public Information Centre Objectives

The purpose of a Public Information Centre (PIC) is to provide interested and/or potentially affected stakeholders with an opportunity to participate in the planning process.

The purpose of this first PIC is to:

- Bring awareness that the project has started;
- Identify why the study is needed (Problem & Opportunity Statement);
- Outline study process and objectives;
- Present baseline information such as existing conditions and existing servicing;
- Outline water and wastewater servicing opportunities and constraints;
- Outline future study related scheduled Class Environmental Assessment activities; and
- Receive public input and answer questions.

Objective of the Master Plan Study

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and businesses in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for 780,000 people & 390,000 jobs by 2031
 - A growth of 300,000 people & 170,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Develop a capital implementation program for the preferred servicing strategy.

Relationship to previous Halton Master Plans

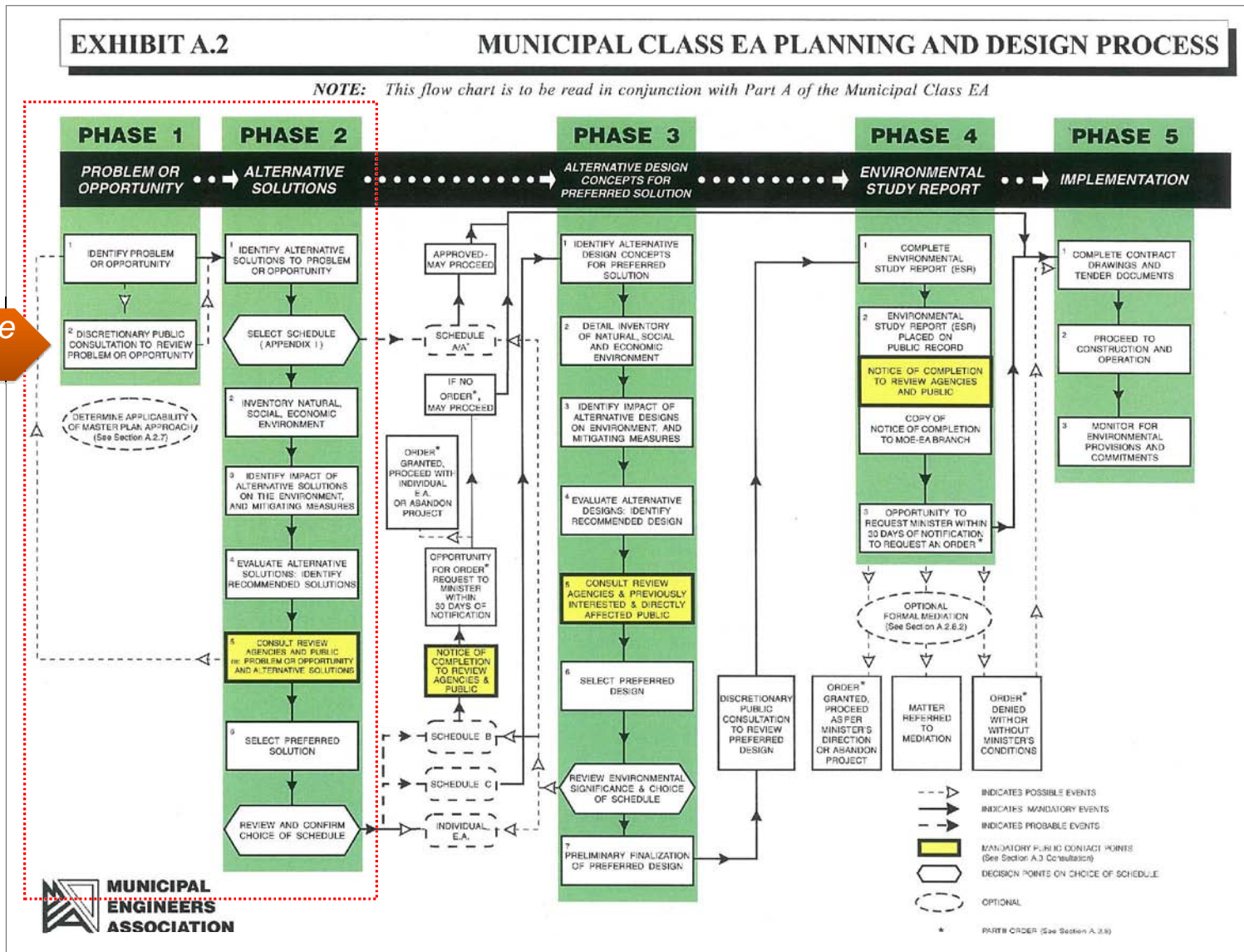
- 2002 Water and Wastewater Master Plan
Preferred water and wastewater servicing strategies for the South Halton system. Based on 2016 BPEs and urban area buildout scenario
- 2004 Water and Wastewater Technical Report
Development Charges Update
design criteria, and projected land use requirements for development to 2021
- 2008 Water and Wastewater South Halton Master Plan

estimates to support new Development Charges By-Law. Land use projections to 2021 with limited intensification detail
- Sustainable Halton Water and Wastewater Master Plan (SHWWMP)
Region wide servicing and costing strategy to 2031 to meet the Places to Grow growth requirements
SHWWMP will support a new Development Charges By-law

Master Plan Context

- Master Plan: high level review of servicing with a conceptual/order of magnitude accuracy of costs
- Master Plan will be filed under Approach #2 under the MEA Class EA Approach for Master Planning
 - Meets Phases 1 and 2 of the Class EA process but also fulfills requirements for Schedule A, A+ and B projects
 - Provides supporting documentation for any Schedule C projects, however these projects would still need to meet Phases 3 and 4 prior to filing for public review

Municipal Class Environmental Assessment Process



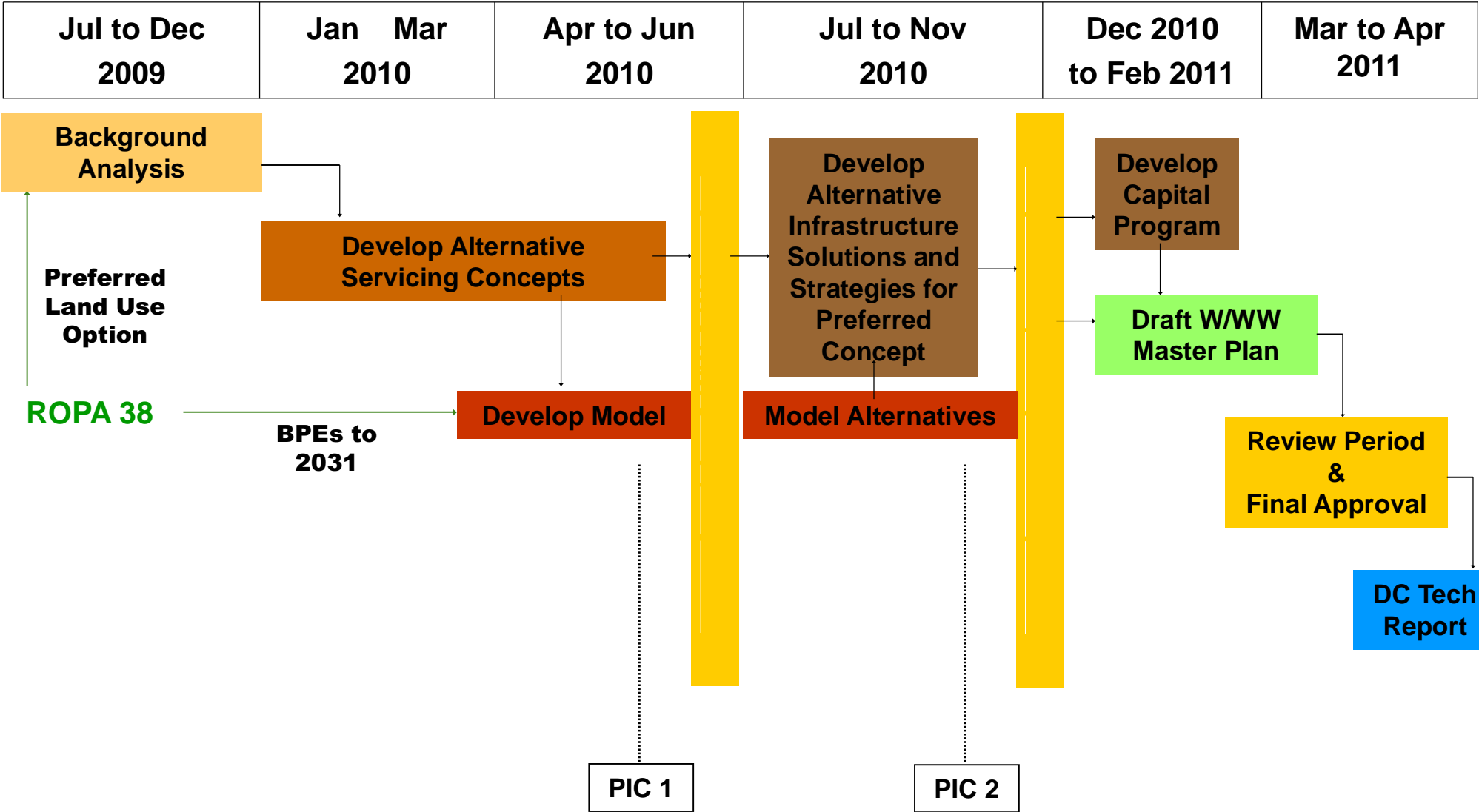
Problem and Opportunity Statement

- Water and wastewater infrastructure upgrades will be required to meet Best Planning Estimates (BPEs) to 2031 and service future residential and non-residential lands.
- A comprehensive Water and Wastewater Master Plan ensures implementation of a sustainable growth strategy.
- Halton Region has previously completed a South Halton Water and Wastewater Master Plan in 2008 which is being updated under this study.

Master Plan Deliverables

- Final Comprehensive Master Plan Document
- Preferred Servicing Strategy
- Capital Implementation Plan
- Clear identification of follow-on study requirements
- Clarity for support of follow-on Class EA studies
- Project Fact Sheets
- Integrated Documents under Sustainable Halton

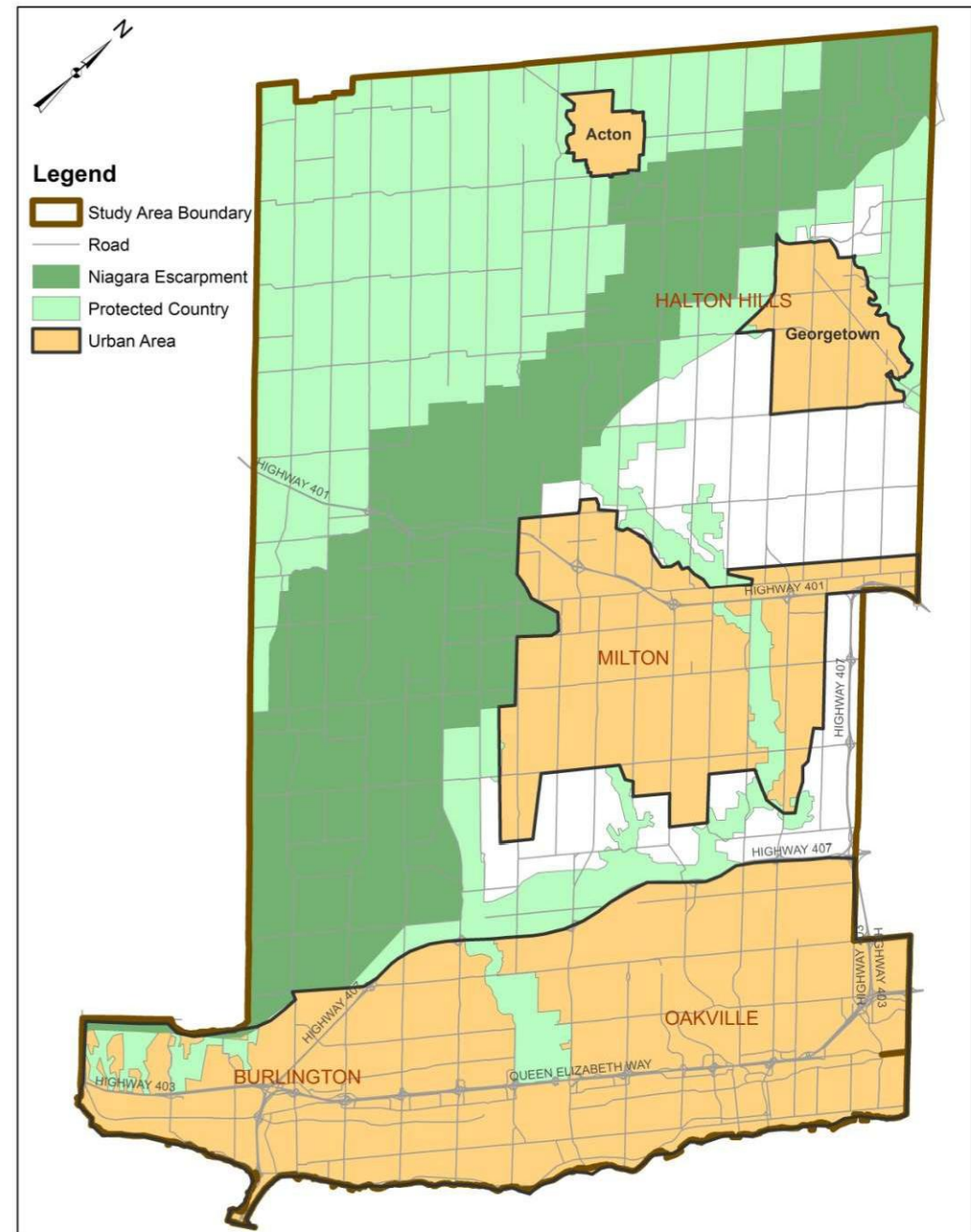
Master Plan Process



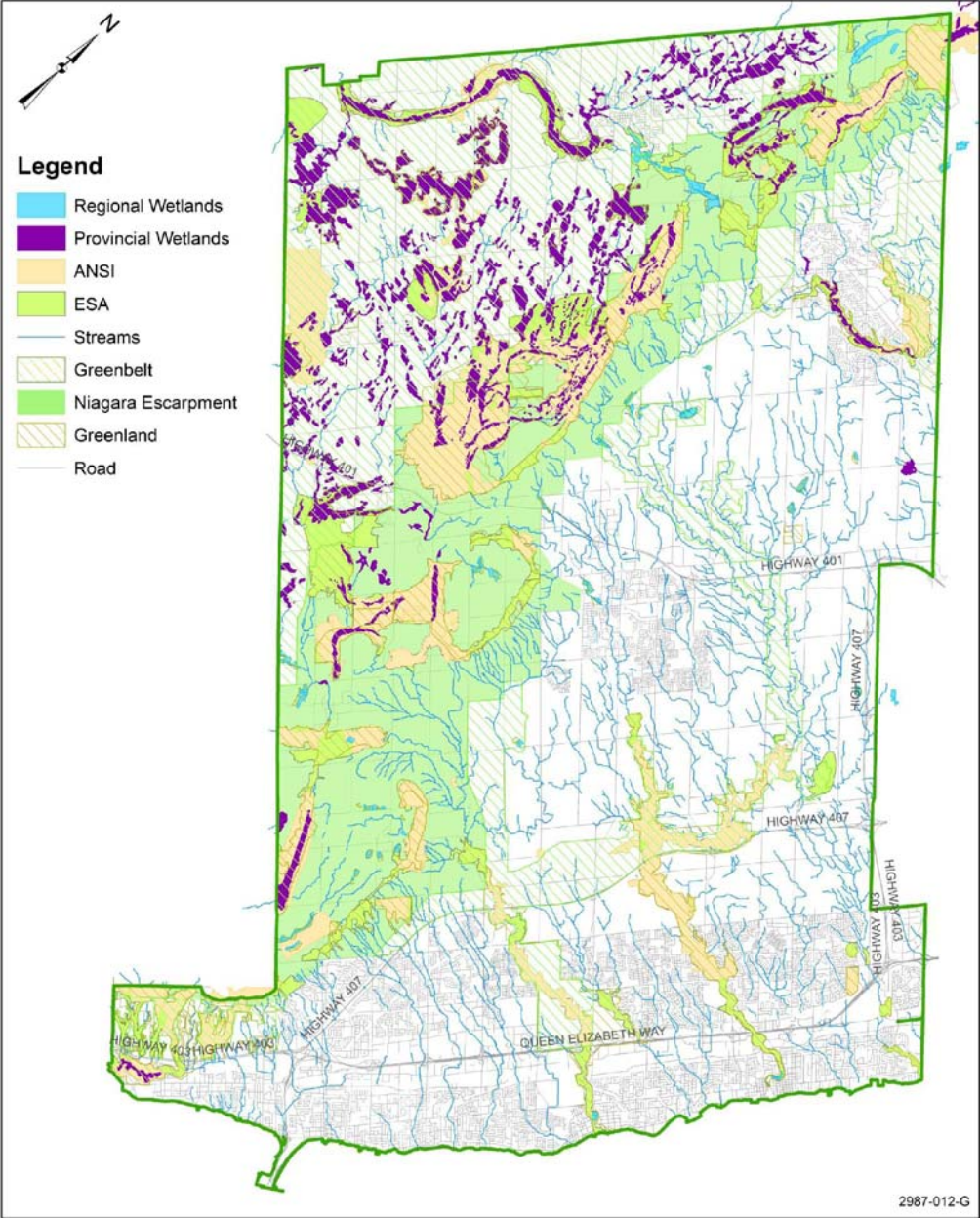
Study Area

Study Area boundary includes the Municipalities of:

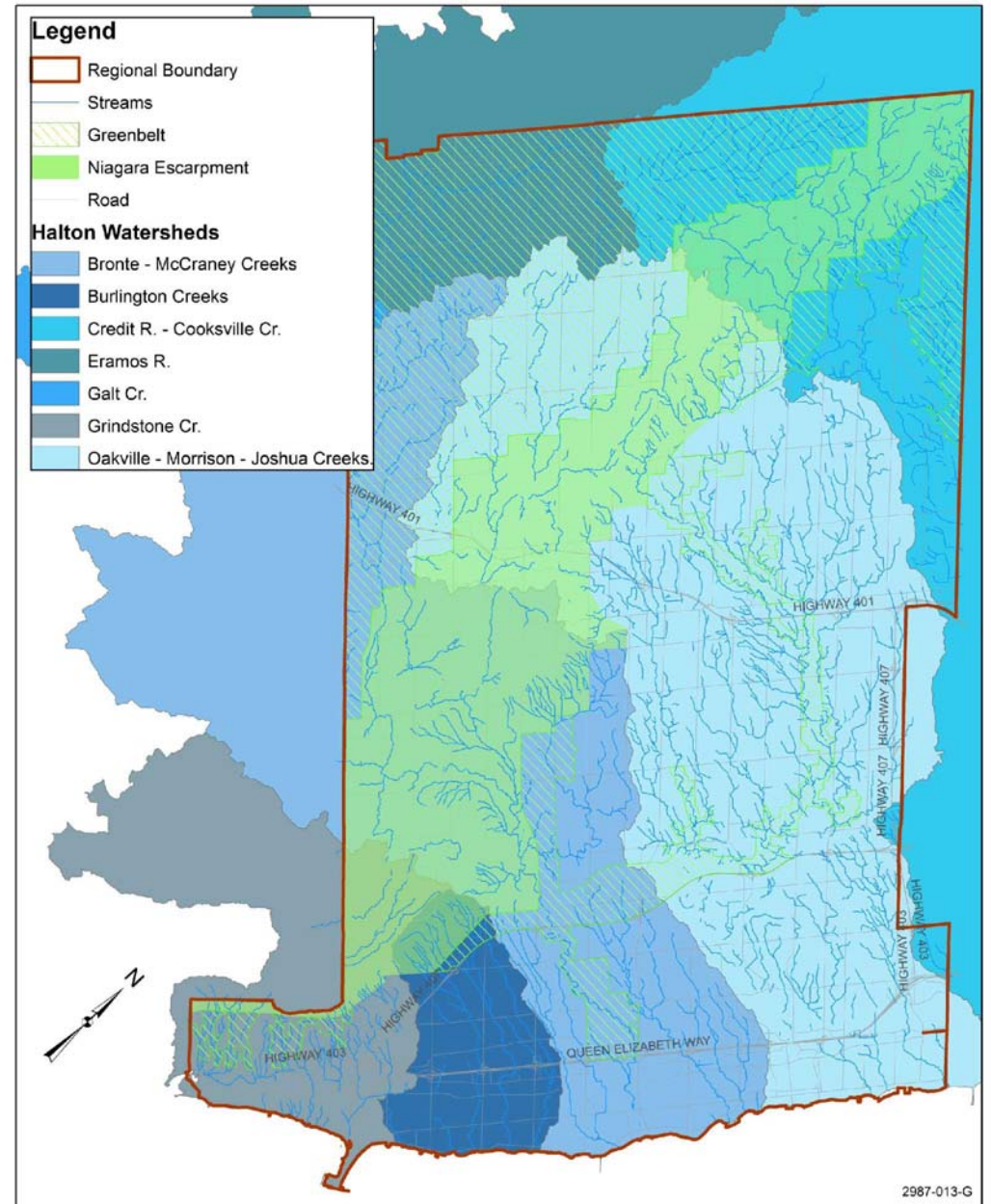
- City of Burlington
- Town of Oakville
- Town of Milton
- Town of Halton Hills



Existing Environmental Features



Existing Watersheds



Guiding Principles and Policies

Service our Communities

- Provide safe and uninterrupted water supply for all Halton serviced residents and businesses for both domestic uses and firefighting
- Provide wastewater system capacity and performance

Protect our environment

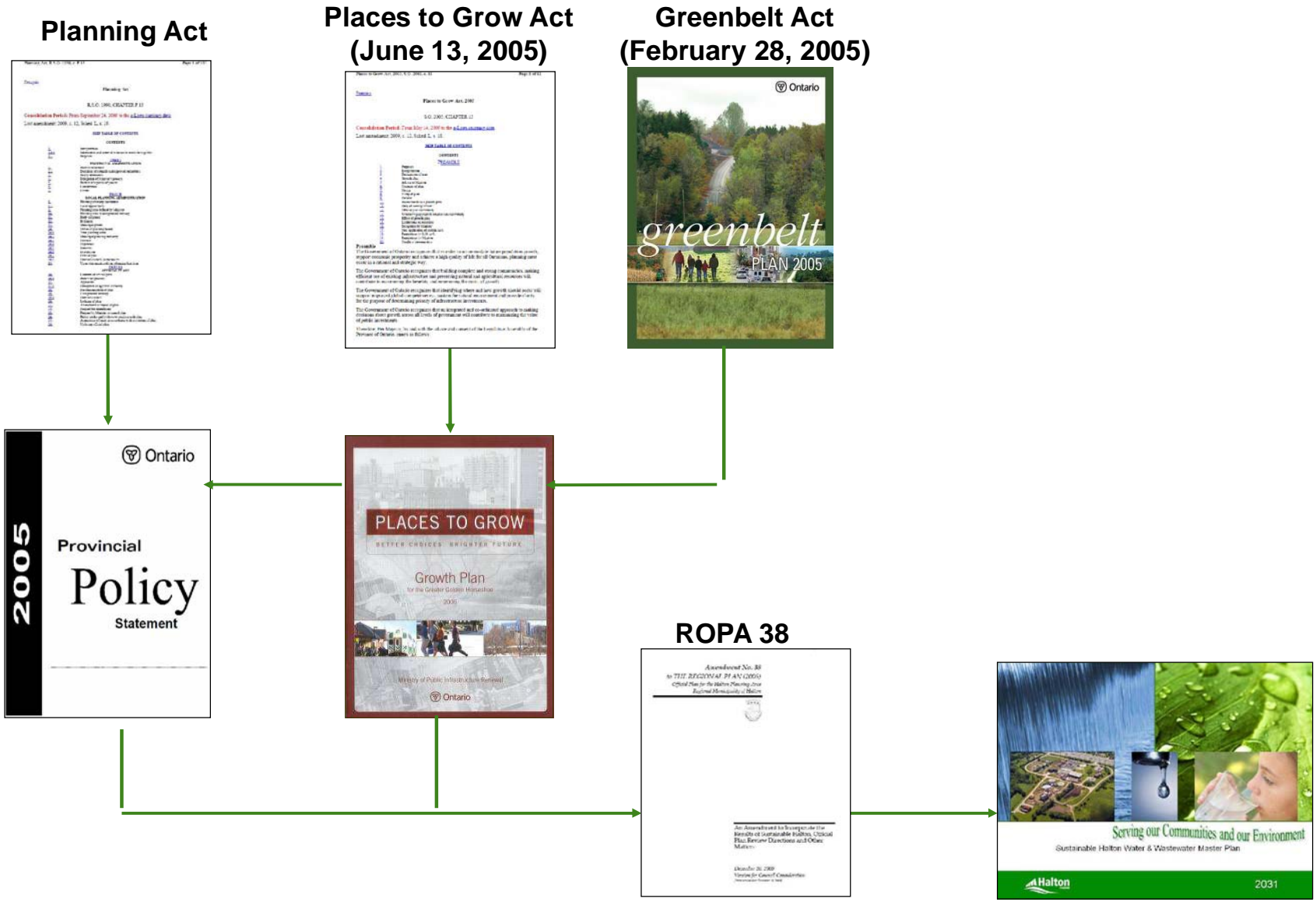
- Ensure that wastewater is treated effectively

Sustainability

- Balance economic, social and environmental goals
-

Meet all regulatory requirements

Legislative and Policy Drivers



Water and Wastewater Legislative Compliance

Key legislation that will be considered through the Master Plan are listed below:

Legislation	Description
Ontario Water Resources Act, 1990	
Ministry of Environment (MOE)	<p>Guideline and Procedures: Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters (Policy F-5, which is currently being updated)</p> <p>Policy B-1-2 Policies, Guidelines Provincial Water Quality Objectives (Blue Book)</p> <p>Policy B-2-5 Deriving Receiving Water-based Effluent Requirements (Green Book)</p> <p>MOE Design Guidelines for Sewage Works 2008; Drinking Water Systems 2008;</p> <p>MOE Guidelines for Water Supply Wells, requirements and best management practices</p>
Safe Drinking Water Act, 2002	Protects human health through the control and regulation of drinking-water systems and testing.
Clean Water Act, 2006	Protects existing and future sources of drinking water, through the identification/assessment of drinking water threats and the development of a source protection plan.
Canada-wide Strategy for the Management of Municipal Wastewater Effluent	<p>Endorsed by the Canadian Council of Ministers of the Environment in 2009.</p> <p>Establishes a framework to manage discharges from more than 3,500 wastewater facilities in Canada.</p>
Great Lakes Charter and Annex	<p>An agreement signed by Ontario, Quebec and eight Great Lakes States.</p> <p>Prohibits new or increased withdrawal and diversion of water within and outside the Great Lakes-St. Lawrence Water Basin.</p>

Sustainable Halton Preferred Land Use Plan

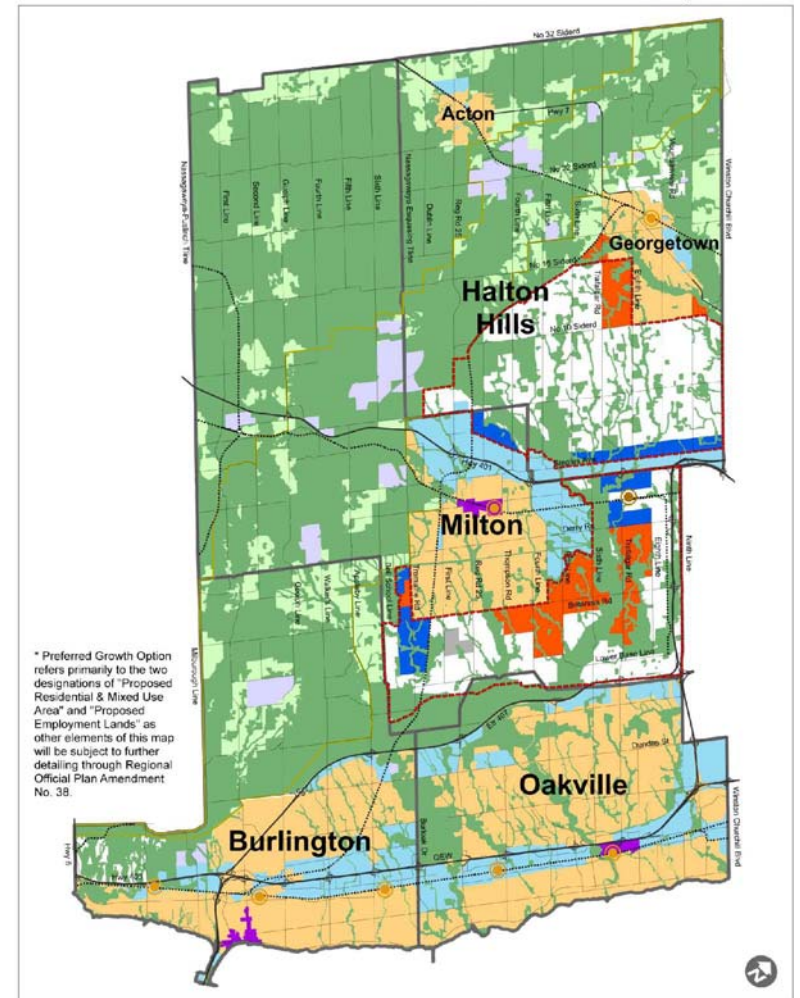
2021-2031

Service Area Growth

- 118,000 people (approx. 71,000 greenfield & 47,000 intensification)
- 53,000 employees

Preferred Growth Option*

Attachment #1 (Amended)
To Report LPS69-09



Date: 19.06.09

Planning Projections (Best Planning Data Sept 2009)

POPULATION PROJECTIONS	2006	2011	2015	2016	2021	2031
Oakville	100,000	110,000	120,000	130,000	140,000	150,000
Burlington	100,000	110,000	120,000	130,000	140,000	150,000
Milton	100,000	110,000	120,000	130,000	140,000	150,000
Halton Hills	100,000	110,000	120,000	130,000	140,000	150,000
Halton Total	400,000	440,000	480,000	520,000	560,000	600,000

EMPLOYMENT PROJECTIONS	2006	2011	2015	2016	2021	2031
Oakville	100,000	110,000	120,000	130,000	140,000	150,000
Burlington	100,000	110,000	120,000	130,000	140,000	150,000
Milton	100,000	110,000	120,000	130,000	140,000	150,000
Halton Hills	100,000	110,000	120,000	130,000	140,000	150,000
Halton Total	400,000	440,000	480,000	520,000	560,000	600,000

(Note: Draft Master Plan projections currently reflect undercount. Best Planning data is currently being updated)

W&WW Servicing Concepts Evaluation Criteria

CRITERIA	CRITERIA DESCRIPTION
Environmental Impact	<ul style="list-style-type: none"> - Describes the potential impacts of the option on the natural environment, proximity to existing natural features and designations including but not limited to Greenbelt, Niagara Escarpment, ESAs, ANSIs, vegetation, woodlands, wildlife, aquatic resources and fisheries - Highlights requirement for major environmental crossings, deep sewers, development through environmental designated areas, and requirements for mitigative action
Socio-Economic Impact	<ul style="list-style-type: none"> - Describes potential impact to socio-economic factors such as impact on residents, archaeological/heritage resources, aesthetics, noise, dust, vibrations, traffic disruptions during construction
Regional Policies and Guidelines	<ul style="list-style-type: none"> - Compliance with Regional Guidelines and Policies
Legal/Jurisdictional Impact	<ul style="list-style-type: none"> - Highlights any land requirement issues and agency concerns that may arise from servicing option related to project alignments, land acquisition, planning permits, crossings etc
Technical Impact	<ul style="list-style-type: none"> - Describes any overall technical advantage/disadvantage to an option related to: <ul style="list-style-type: none"> - capacity requirements and level of service - performance under power outage conditions - alignments that can maximize a service area - utilization of existing infrastructure - Describes difficulty of construction (construction in limited areas, crossings, protection of utilities, trees or structures) <ul style="list-style-type: none"> - are existing infrastructure upgrades required? - what level of security of water supply/transmission does the option provide? - does the option require SPS vs. deep sewers?

W&WW Servicing Concepts Evaluation Criteria

CRITERIA	CRITERIA DESCRIPTION
Phasing Impact	<ul style="list-style-type: none"> - Describes the ability for staged growth - Describes ability to maximize use of existing or planned infrastructure. - Describes ability of incremental extensions of infrastructure as growth progresses - Ability to balance infrastructure costs with staged level of growth (high-level comment) - Do early phases of growth require large up front costs?
Sizing Impact	<ul style="list-style-type: none"> - Describes impact on the sizing of planned and existing infrastructure - Highlights trunk infrastructure that potentially should be oversized to benefit future growth. - Makes comment on whether growth areas will need to be serviced by existing infrastructure, 2021 Master Plan infrastructure or new - Highlights sizing difference of common projects
Constructability Impact	<ul style="list-style-type: none"> - Describes technical level required for construction of projects - Highlights potential need for deep pipe construction, creek/railway/highway crossings, alignment challenges, potential challenges during construction through existing built-up areas - Construction of projects that can be coordinated with road construction
Build out Impact	<ul style="list-style-type: none"> - Highlights potential opportunities/constraints to servicing build out - Projects and Strategies that offer flexibility of servicing the mature state growth (post 2031)
Implementation and Operability Impact	<ul style="list-style-type: none"> - Describes post-construction impacts such as operation and maintenance costs and requirements
Servicing Integration	<ul style="list-style-type: none"> - Describes potential impacts related to opportunity or requirement for integrated planning, design, construction with other servicing such as bridge construction, road improvements etc
Financial Impact	<ul style="list-style-type: none"> - Describes the Capital Cost and O & M costs relative to other options - Considers construction costs for new infrastructure and for upgrades to existing system - Highlights major projects that differ from other options that significantly contribute to the Capital Cost

Water Servicing Concepts Evaluation

Purpose & Methodology

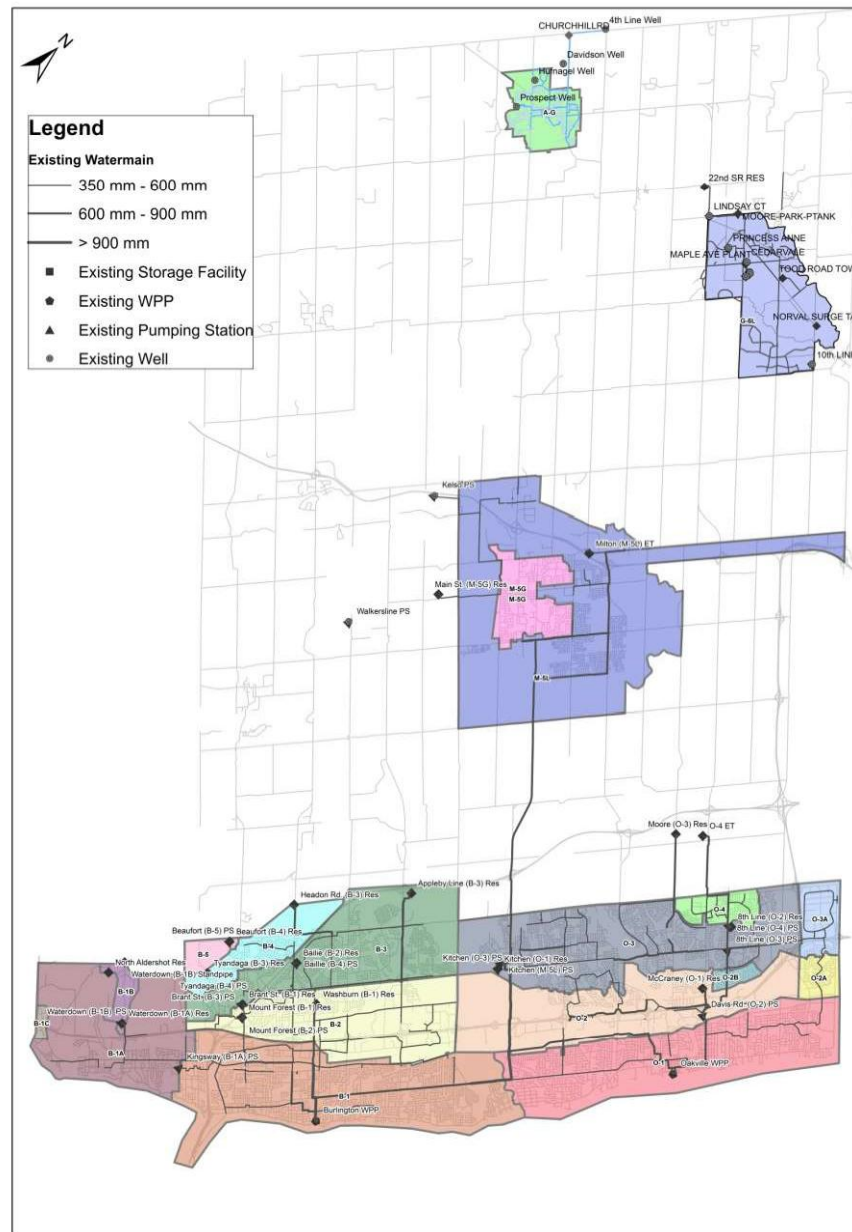
- Evaluate Average Day, Maximum Day and Peak Hour flows and supply
- Consider system security and redundancy
- Maintain adequate levels of service (pressure/flow for domestic use and firefighting)
- Ensure operating considerations are addressed
- Continue to meet all MOE requirements
- Use the model to assess impact of new growth demands (based on projected BPEs) on system infrastructure:
 - Capacity
 - Pressure
 - Fire Flow
- Analyze pressure zone boundaries
- Develop/evaluate servicing strategies

Water Servicing Concepts Evaluation

Objectives

- 2031 servicing vision exercise
- Consider multiple servicing concepts
- High level evaluation of concepts
- Screen out servicing concepts / sub-concepts
- Select preferred servicing concepts / sub-concepts for further detailed evaluation

Existing Water Infrastructure



2031 Acton Water Servicing Concepts

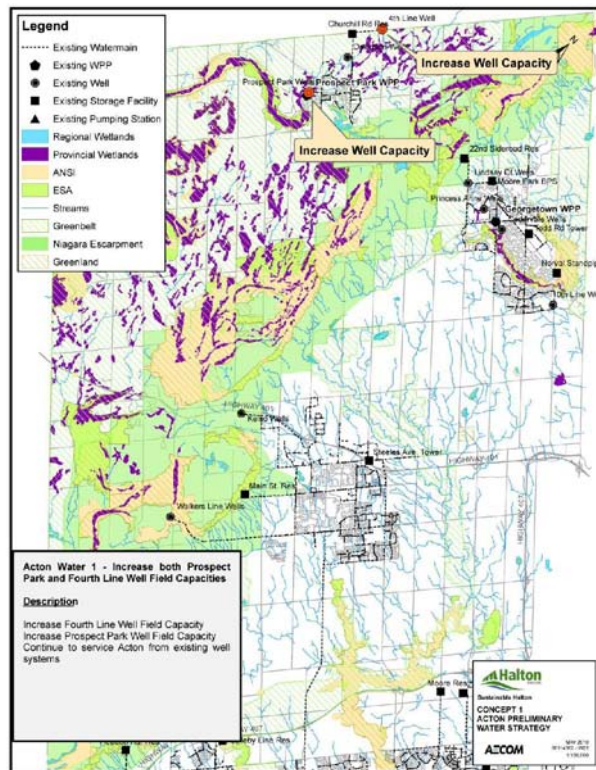
- Concept 1 Increase Prospect Park & Fourth Line Well field Capacities
- Concept 2 Increase Fourth Line & Construct New Well field
- Concept 3 Increase Prospect Park & Construct New Well field
- Concept 4 - Increase Prospect Park & Fourth Line Well field & Construct New Well field
- Concept 5 Municipal System Interconnection
- Concept 6 Increase Prospect Park & Fourth Line Well & Implement Aquifer Recharge Program

Note: Treatment requirements will need to be considered for all concepts.

Acton Water Servicing Concepts

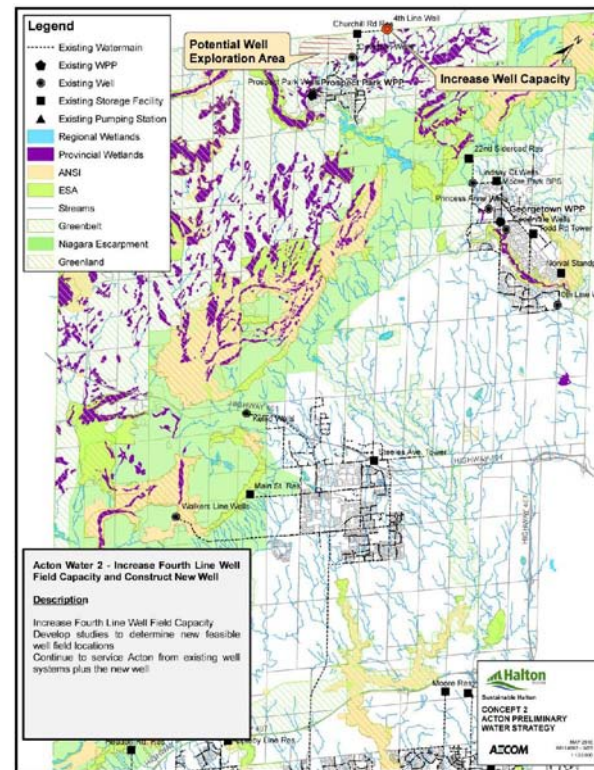
Concept 1

- Increase both Prospect Park and Fourth Line Well Field Capacities



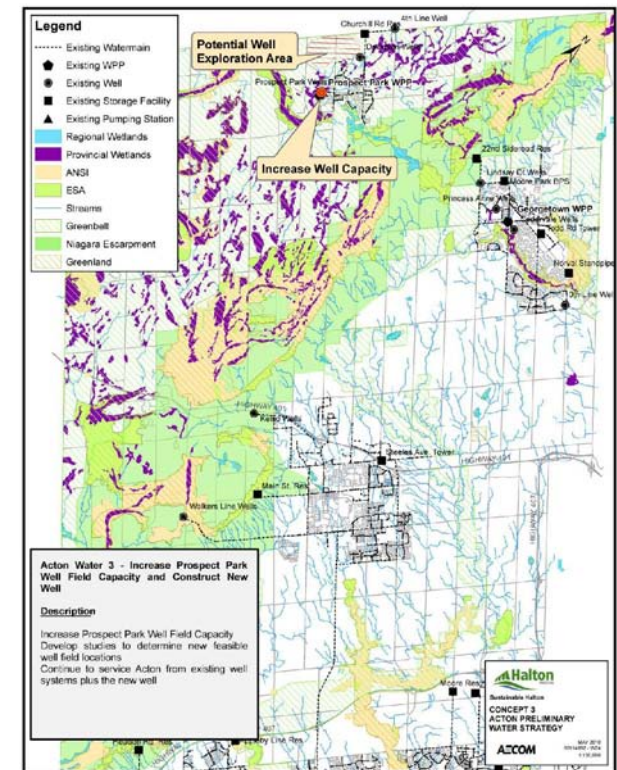
Concept 2

- Increase Fourth Line Well Field
- Construct a new Well Field



Concept 3

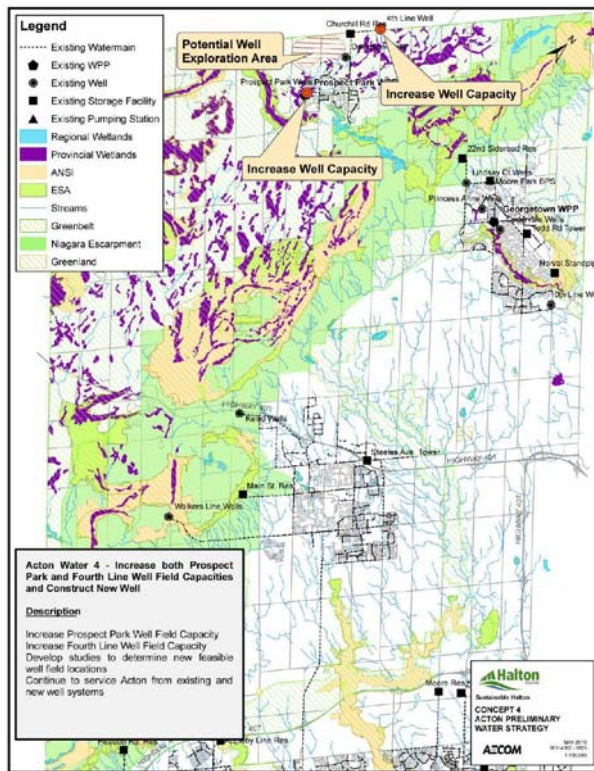
- Increase Prospect Park Well field
- Construct a new Well Field



Acton Water Servicing Concepts

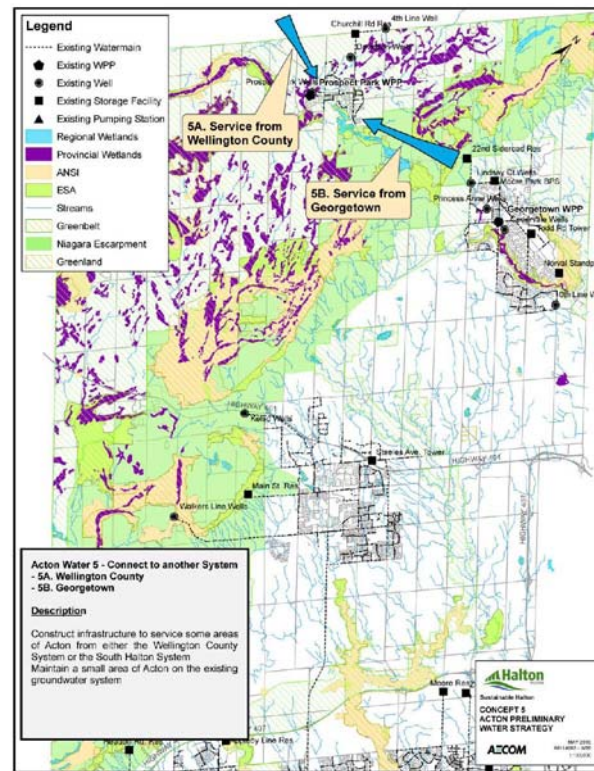
Concept 4

- Increase both Prospect Park and Fourth Line Well Field Capacities
- Construct a new Well Field



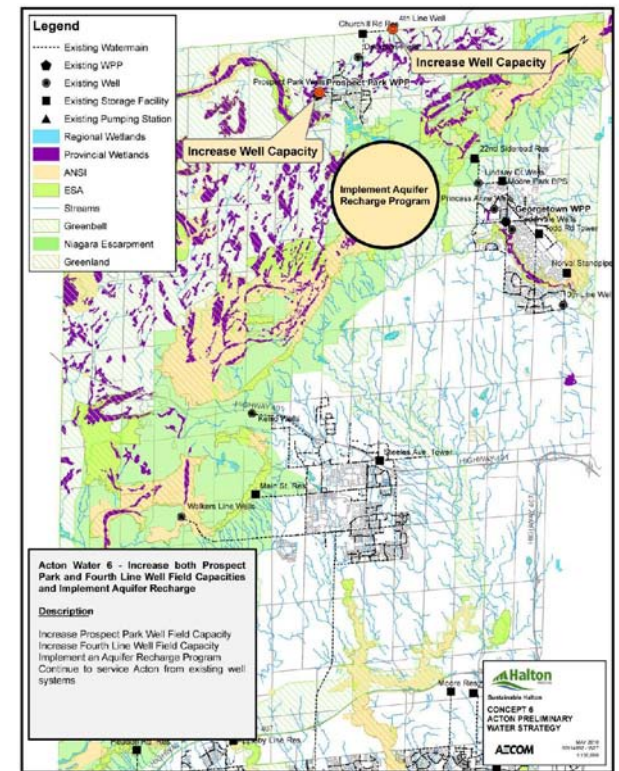
Concept 5

- Municipal System Interconnection



Concept 6

- Increase both Prospect Park and Fourth Line Well Field Capacities
- Implement an Aquifer Recharge Program



Summary Evaluation Table

Acton Water Servicing Concepts

	W1	W2	W3	W4	W5A	W5B	W6
	Increase both Prospect Park and Fourth Line Well Field Capacities	Increase Prospect Park Well Field Capacity and Construct a New Well Field	Increase Fourth Line Well Field Capacity and Construct a New Well Field	Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field	Connect to the Lake based system in South Halton (Lake Ontario)	Connect to the Wellington County System (Lake Erie)	Increase both Prospect Park and Fourth Line Well Field Capacities plus Implement Aquifer Recharge Program
	Maximizes existing well infrastructure	Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary	Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary	Maximizes existing well infrastructure Greatest flexibility for redundancy/firm capacity in supply Allows staging of works Addresses growth within urban boundary	Increased redundancy and security in supply Could potentially address full build-out needs	Increased redundancy and security in supply	Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Aquifer recharge implementation study can run concurrently with Well Field re-rating Addresses growth within urban boundary
	Requires regular well maintenance No allowance for redundancy/firm capacity of the well system Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required	Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions	Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions	Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions	Contrary to Greenbelt Policy	Intra basin transfer issues, ground watershed flows to Lake Erie Studies required to determine feasibility of balancing water budget Fundamentals of agreement needs to be established Confirmation of available Wellington capacity and trunk system impacts need to be confirmed	Feasibility study required for aquifer recharge Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Potential public concern Not a viable solution in the short term
Score							

2031 Georgetown Water Servicing Concepts

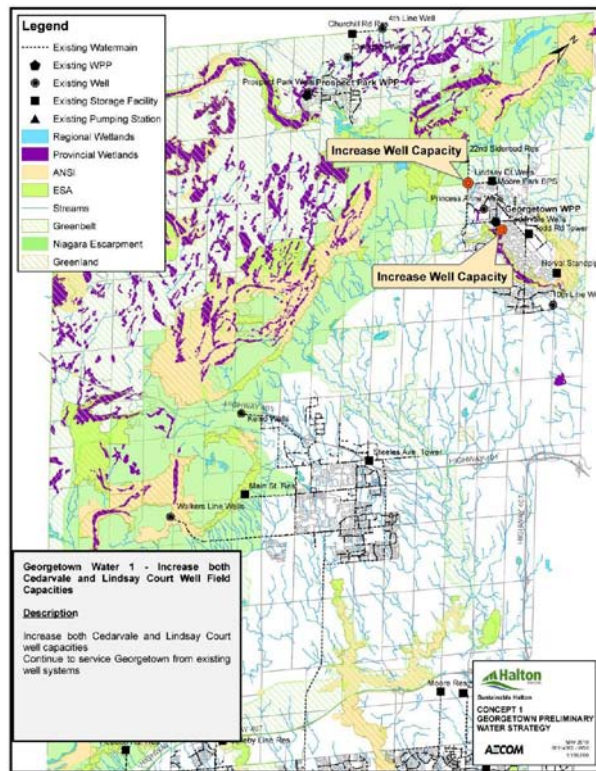
- Concept 1 Increase Lindsay Court & Cedarvale Well Field Capacities
- Concept 2 Increase Cedarvale & Construct New Well Field
- Concept 3 Increase Lindsay Court & Construct New Well Field
- Concept 4 Increase Lindsay Court & Cedarvale Well Field & Construct New Well Field
- Concept 5 Municipal System Interconnection
- Concept 6 Increase Lindsay Court & Cedarvale Well Field & Implement Aquifer Recharge Program

Note: Treatment requirements will need to be considered for all concepts.

Georgetown Water Servicing Concepts

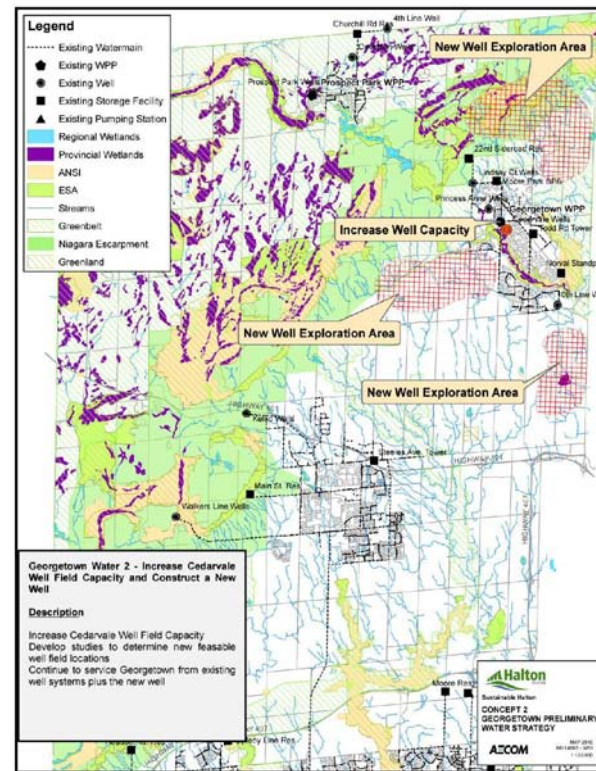
Concept 1

- Increase both Lindsay Court and Cedarvale Well Field Capacities



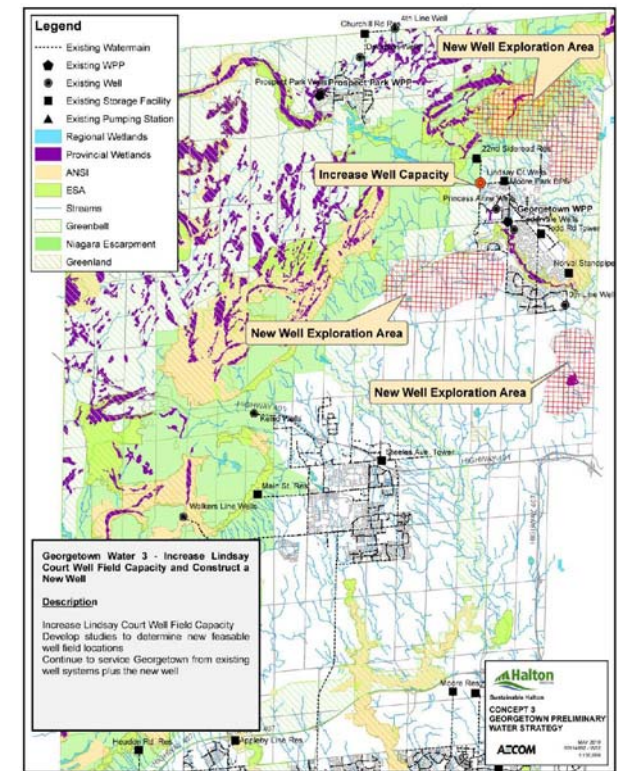
Concept 2

- Increase Cedarvale
- Construct a New Well Field



Concept 3

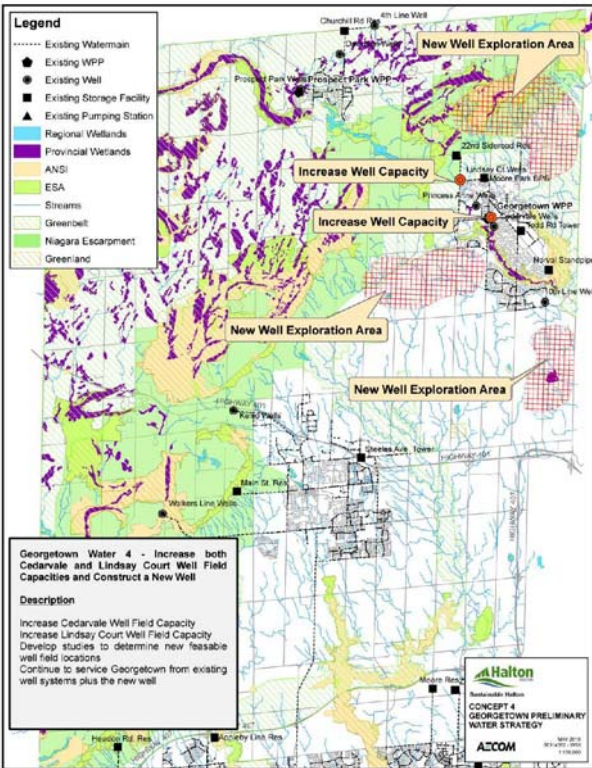
- Increase Lindsay Court
- Construct a New Well Field



Georgetown Water Servicing Concepts

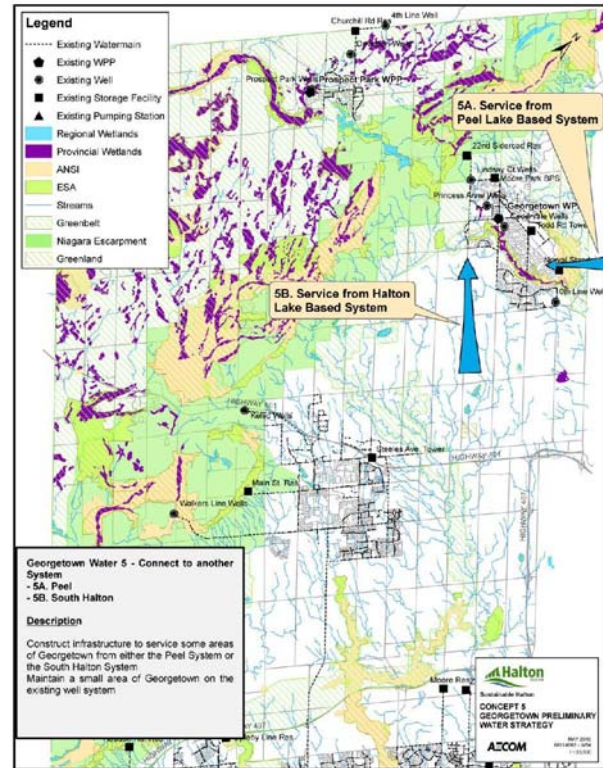
Concept 4

- Increase both Lindsay Court and Cedarvale Well Field Capacities
- Construct a new Well Field



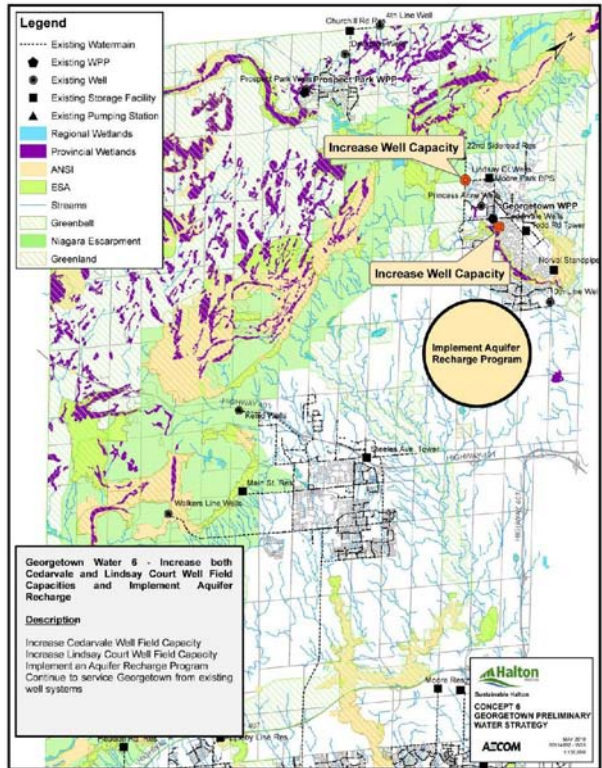
Concept 5

- Municipal System Interconnection



Concept 6

- Increase both Lindsay Court and Cedarvale Well Field Capacities
- Implement an Aquifer Recharge Program



UPDATE ON NEW WATER SUPPLY STUDY

MIDDLE SIXTEEN MILE CREEK BURIED VALLEY(MSMCBV):

- 2009 Study Findings indicate that MSMCBV aquifer can provide an alternative water supply (non-GUDI) to provide redundancy for the existing Georgetown water supply system.
- The aquifer is reasonably protected from contaminant sources.
- Production wells would be required to obtain the supply and water treatment (at GWPP) would be required based on water quality due to high iron content.
- Potential for artificial recharge to the aquifer exists.

MSMCBV - East of Trafalgar Rd between 10th & 15 th SR

- Predicted to provide a long term, sustainable yield up to 690 m³/day (8 L/s)
- Pumping is not expected to cause adverse impacts to private wells or ecologically sensitive features in the area

MSMCBV - West of Trafalgar Rd between 10th & 15th SR (6th Line)

- Predicted to provide a long term, sustainable yield up to 2600 m³/day (30 L/s)
- Further assessment for potential impact on local ecology and private wells is required

Summary Evaluation Table

Georgetown Water Servicing Concepts

	W1	W2	W3	W4	W5A	W5B	W6
	Increase both Cedarvale and Lindsay Court Well Field Capacities	Increase Cedarvale Well Field Capacity and Construct a New Well Field	Increase Lindsay Court Well Field Capacity and Construct a New Well Field	Increase both Cedarvale and Lindsay Court Well Field Capacities plus Construct a New Well Field	Connect to the Lake based system in South Halton	Connect to the Peel System	Increase both Cedarvale and Lindsay Court Well Field Capacities plus Implement Aquifer Recharge Program
	<p>Maximizes existing well infrastructure</p> <p>Groundwater capacity can meet current urban boundary needs to 2031</p> <p>Potential to increase firm capacity and security of supply through follow on stage at Lindsay Court</p>	<p>Maximizes existing well infrastructure</p> <p>Groundwater capacity can meet current urban boundary needs to 2031</p> <p>Allowance for redundancy/firm capacity for current urban boundary only</p>	<p>Maximizes existing well infrastructure</p> <p>Groundwater capacity can meet current urban boundary needs to 2031</p> <p>Allowance for redundancy/firm capacity for current urban boundary only</p>	<p>Maximizes existing well infrastructure</p> <p>Allows staging of works</p> <p>Groundwater capacity can meet current urban boundary needs to 2031</p> <p>Greatest flexibility for redundancy/firm capacity for current urban boundary only</p>	<p>Increased redundancy in supply from Lake Ontario</p> <p>Addresses 2031 and potential urban buildout needs</p> <p>Firm groundwater system capacity can be maintained to continue to provide servicing with existing urban boundary</p> <p>Could consider full system capacity</p>	<p>Increased redundancy in supply from Lake Ontario</p> <p>Addresses 2031 and potential mature state needs</p> <p>Firm groundwater system capacity can be maintained to continue to provide servicing with existing urban boundary</p> <p>Could consider full system capacity</p> <p>Potential opportunity for interim supply</p> <p>Current Peel distribution system is located closer to the Georgetown service area</p>	<p>Maximizes existing well infrastructure</p> <p>Increased redundancy/firm capacity in supply</p> <p>Addresses growth within urban boundary</p> <p>Aquifer recharge implementation study can run concurrently with Well Field Re-rating</p>
	<p>Requires regular well maintenance</p> <p>Re-rating dependant upon Review Agency approval</p> <p>Assessment for potential impact on local ecology and private wells is required</p> <p>Insufficient redundancy/firm capacity to meet the current urban boundary 2031 needs</p> <p>Insufficient supply for full 2031 needs</p>	<p>Requires regular well maintenance</p> <p>New infrastructure required</p> <p>Re-rating dependant upon Review Agency approval</p> <p>Assessment for potential impact on local ecology and private wells is required</p> <p>Requires pumping tests to confirm new well supply yield predictions</p>	<p>Requires regular well maintenance</p> <p>New infrastructure required</p> <p>Re-rating dependant upon Review Agency approval</p> <p>Assessment for potential impact on local ecology and private wells is required</p> <p>Requires pumping tests to confirm new well supply yield predictions</p>	<p>Requires regular well maintenance</p> <p>New infrastructure required</p> <p>Re-rating dependant upon Review Agency approval</p> <p>Assessment for potential impact on local ecology and private wells is required</p> <p>Requires pumping tests to confirm new well supply yield predictions</p>	<p>Currently planned infrastructure for lake-based system is required to be in place in order to extend servicing to Georgetown</p>	<p>Confirmation of available Peel capacity and trunk system impacts need to be confirmed</p> <p>Fundamentals of agreement need to be established</p>	<p>Aquifer recharge feasibility study required</p> <p>Potential public concern</p> <p>Not a viable solution in the short term</p> <p>Re-rating dependant upon Review Agency approval</p> <p>Assessment for potential impact on local ecology and private wells is required</p>
SCORE							

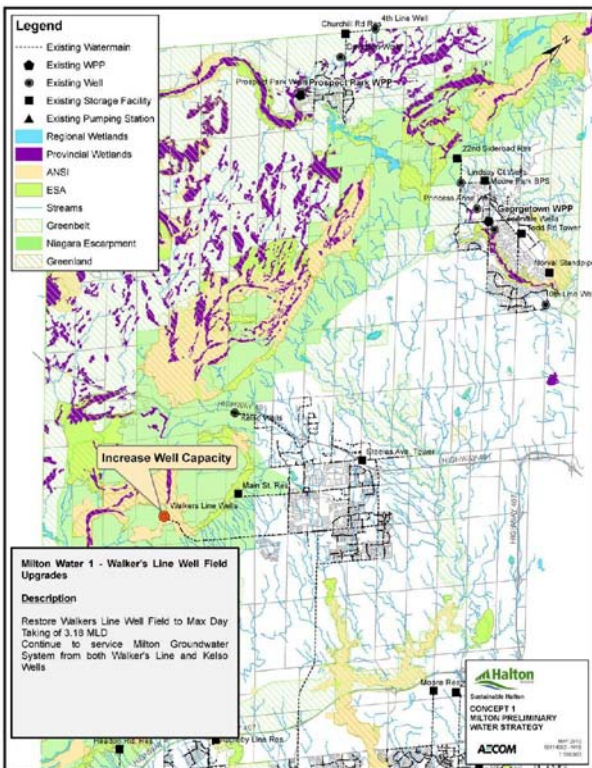
2031 Milton Water Servicing Concepts

- Concept 1
- Concept 2 Kelso Well Field Upgrades
- Concept 3 Transfer Areas to Lake Based System

Milton Groundwater Servicing Concepts

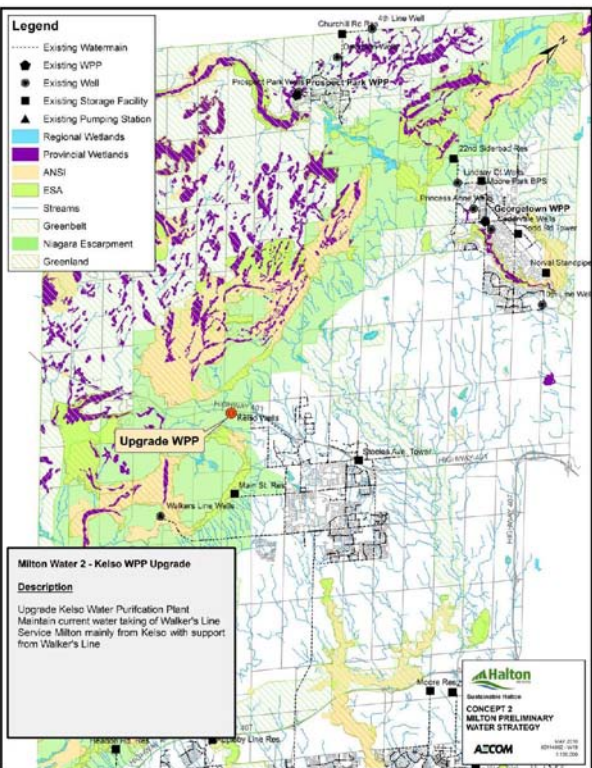
Concept 1

- Walkers Line Well Field Upgrades



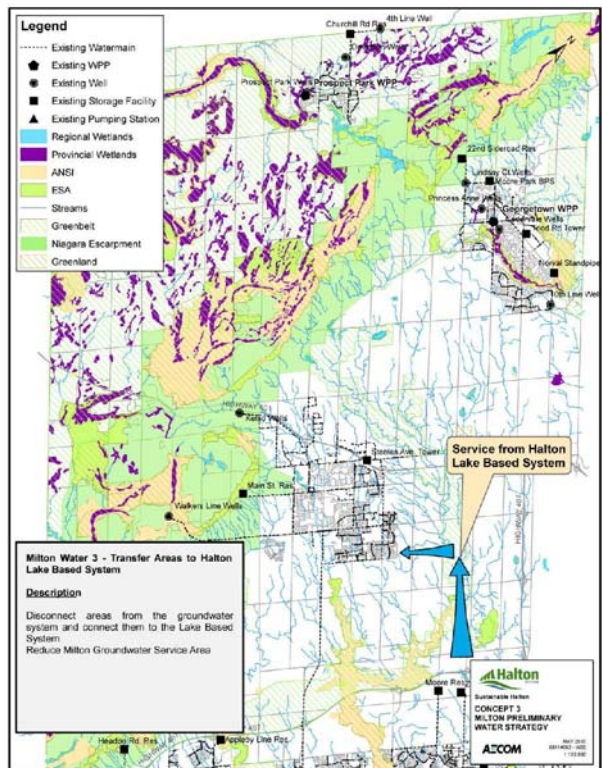
Concept 2

- Kelso WPP Upgrades



Concept 3

- Transfer Areas to Lake Based System



Summary Evaluation Table

Milton Groundwater Servicing Concepts

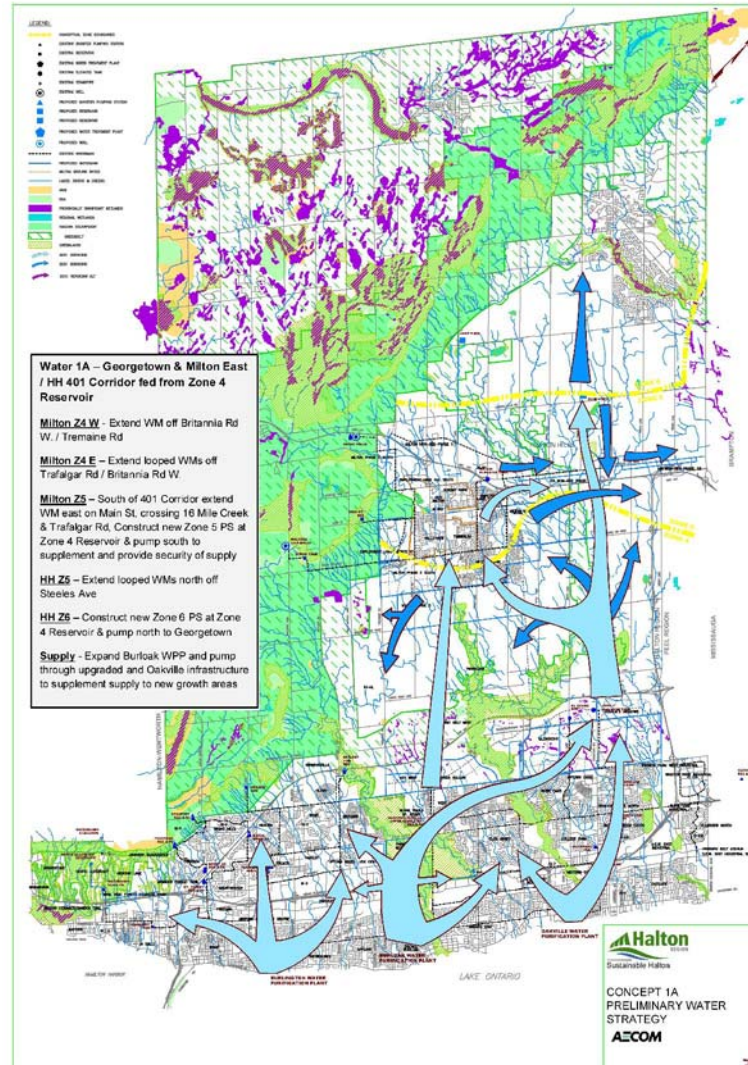
	W1	W2	W3
	Walker's Line Well Field Upgrades	Kelso WPP Upgrade	Transfer Some of Existing Areas to Lake Based System
	<p>Maximizes existing well infrastructure</p> <p>Maintaining groundwater system based on some perception/feedback that groundwater is a preferred source</p>	<p>Maximizes existing well infrastructure</p> <p>Currently a higher yielding well field</p> <p>Maintaining groundwater system based on some perception/feedback that groundwater is a preferred source</p>	<p>Provides security of supply</p> <p>Potential to minimize upgrades to existing supply system</p> <p>Opportunity to continue to maintain a groundwater service area or consider transfer of the full system</p> <p>Opportunity for staging. Lake based servicing already provided in Milton</p> <p>Addresses full build-out needs</p>
	<p>Requires regular well maintenance</p> <p>Assessment for potential impact on local ecology and private wells is required</p> <p>Potential not to meet PTTW</p> <p>Does not meet future demand requirements</p>	<p>Requires regular well maintenance</p> <p>Assessment for potential impact on local ecology and private wells is required</p> <p>Potential not to meet PTTW</p> <p>Does not meet future demand requirements</p>	<p>Requires operational plans to implement</p>
SCORE			

2031 South Water Servicing Concepts

- Concept 1 - Build off planned 2021 infrastructure
- Concept 2 Construct 3rd spine feedermain
- Concept 3 Inter-regional Peel supply

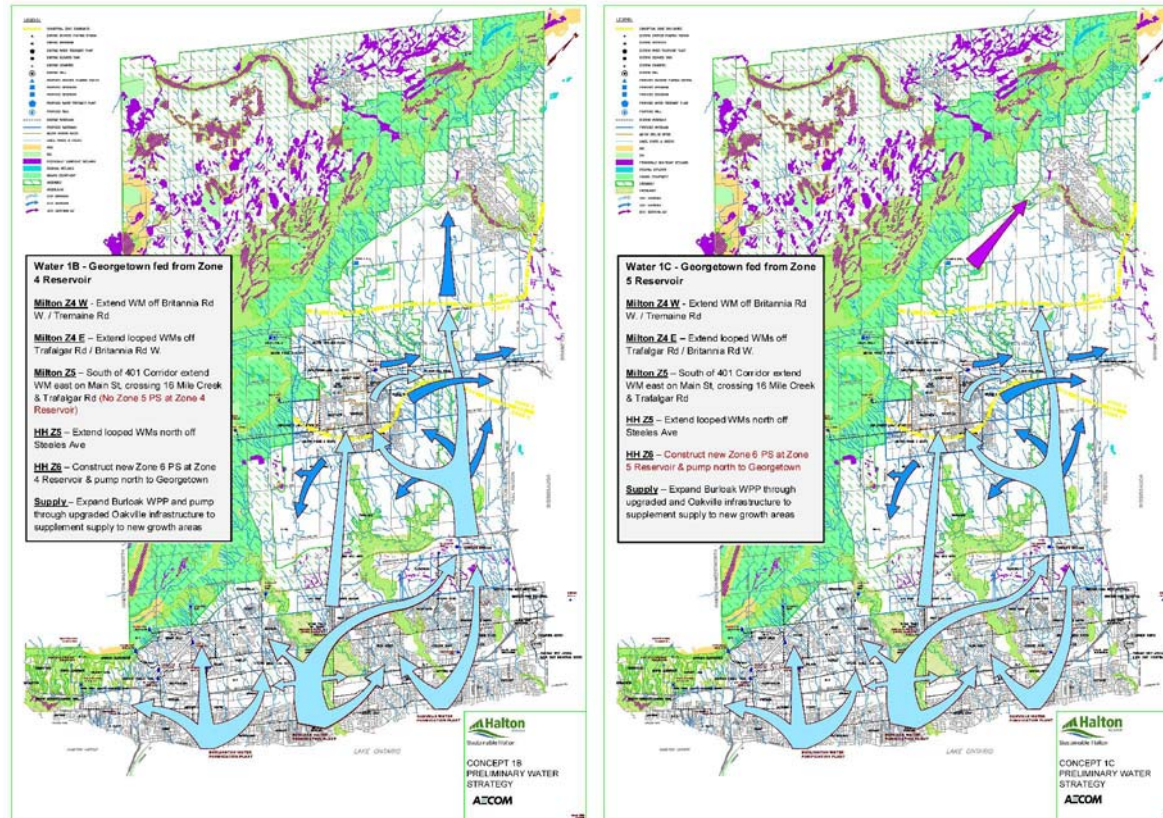
South Lake Water Servicing Concepts

Concept 1 – Build off planned 2021 infrastructure



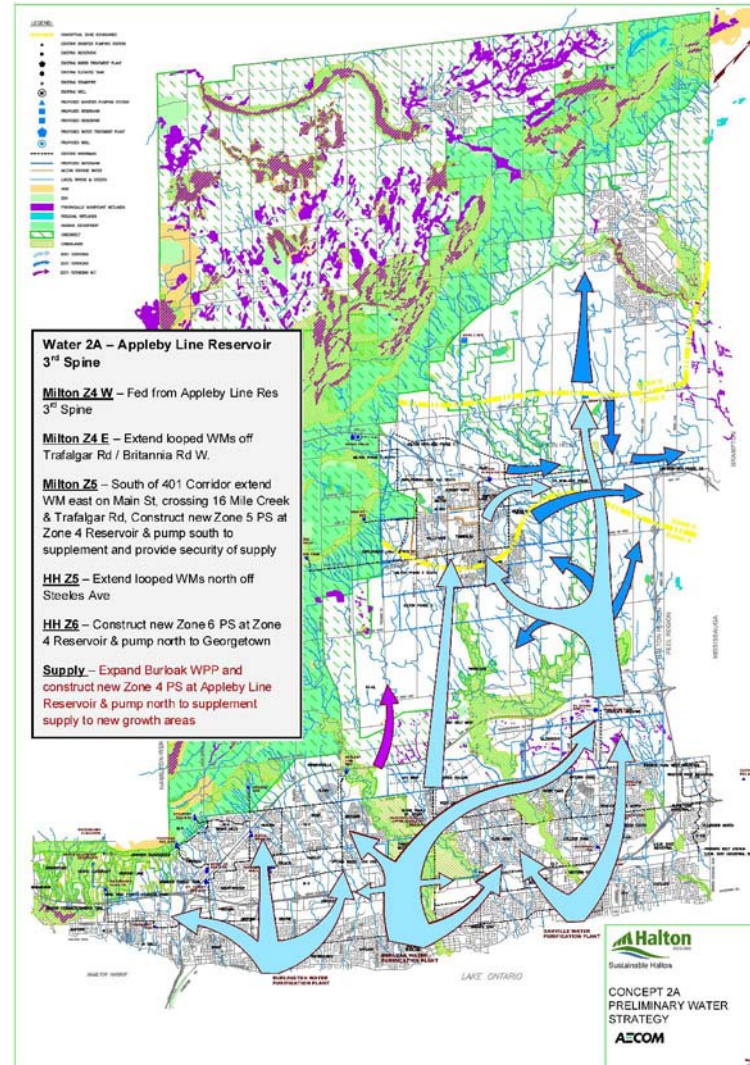
South Lake Water Servicing Concepts

Concept 1 – Build off planned 2021



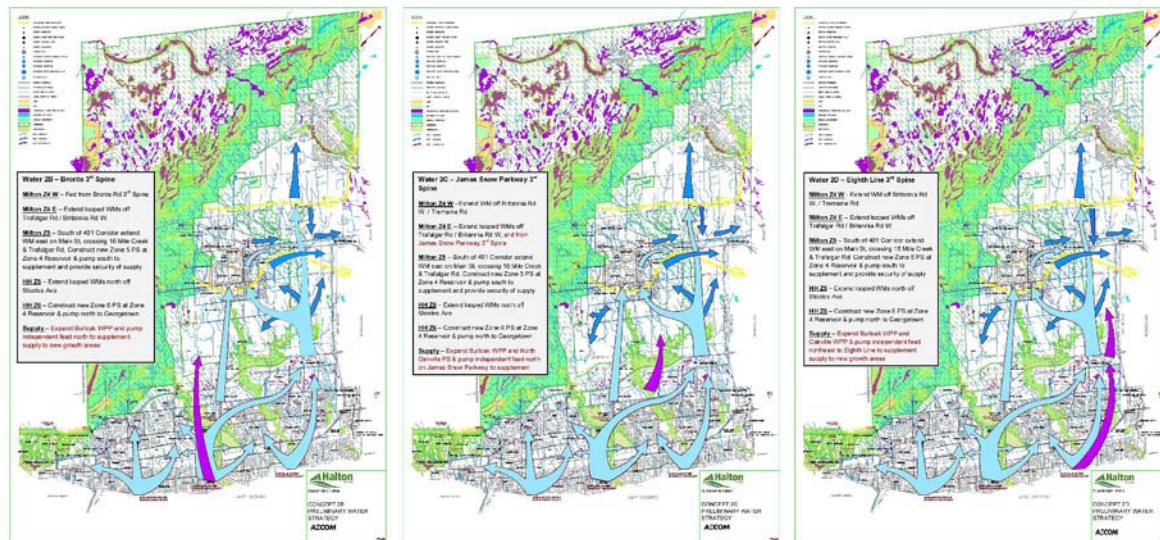
South Lake Water Servicing Concepts

Concept 2 – Construct 3rd spine feedermain



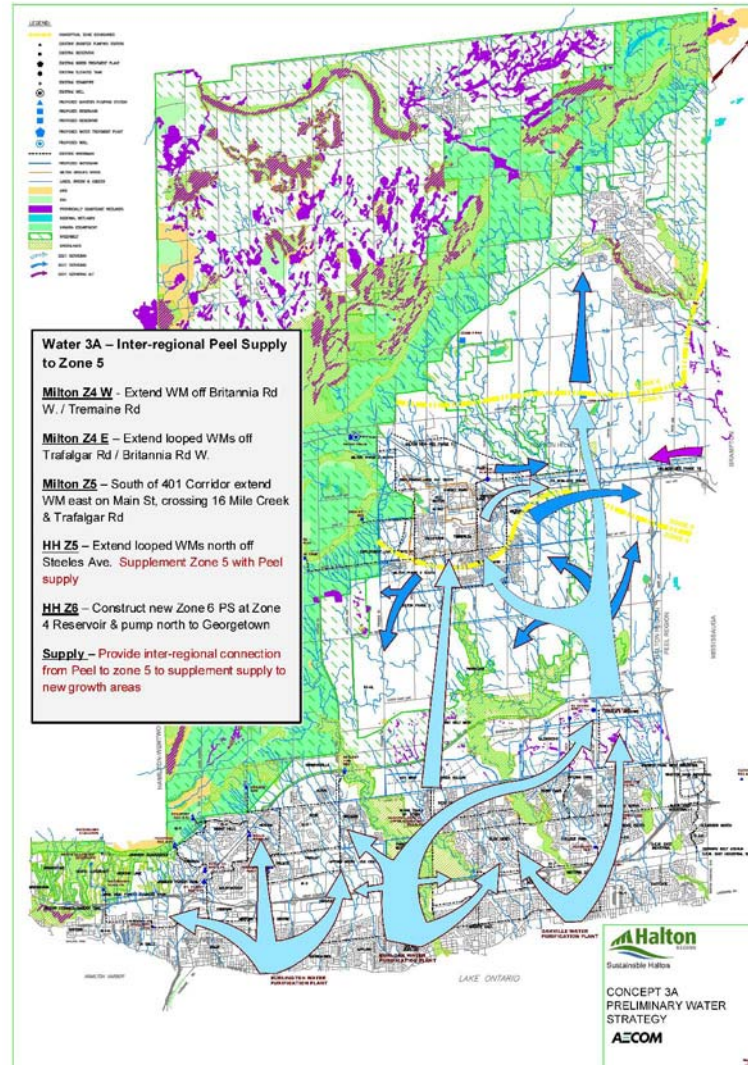
South Lake Water Servicing Concepts

Concept 2 – Construct 3rd spine feedermain



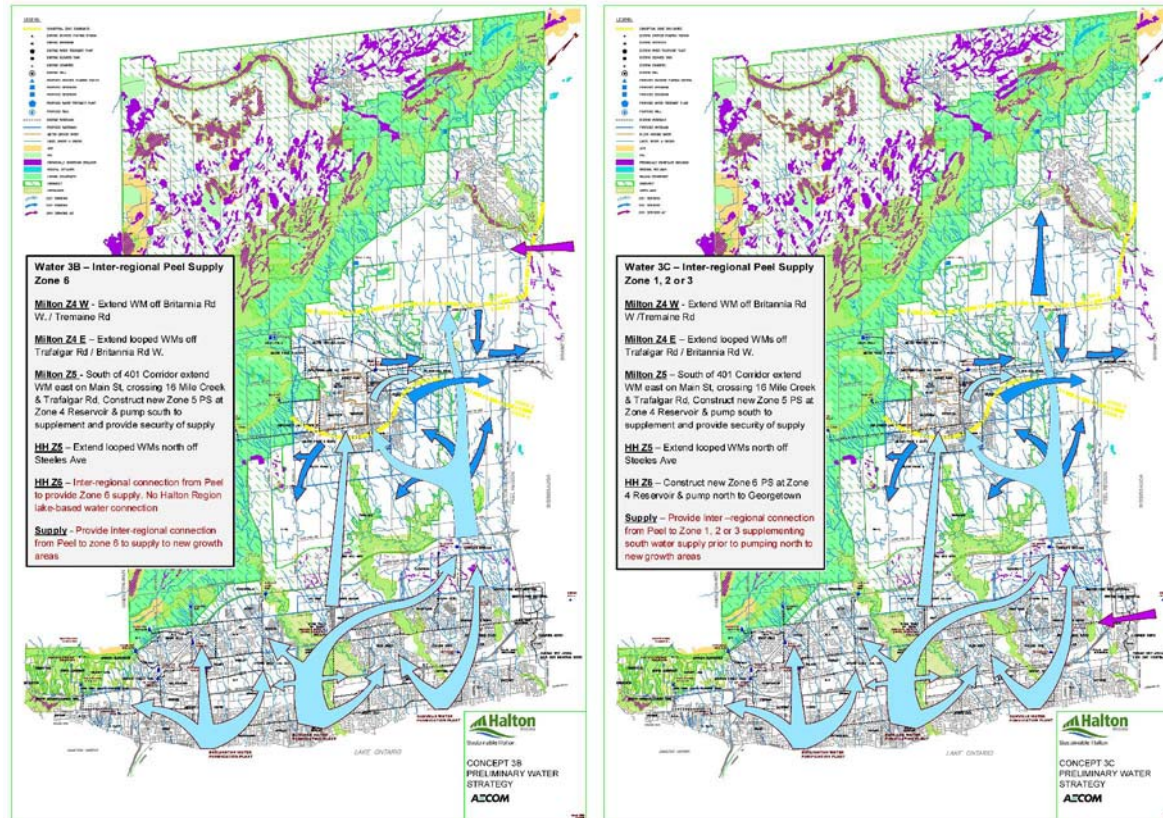
South Lake Water Servicing Concepts

Concept 3 - Inter-regional Peel Supply



South Lake Water Servicing Concepts

Concept 3 - Inter-regional Supply



Summary Evaluation Table

South Lake Water Servicing Concepts

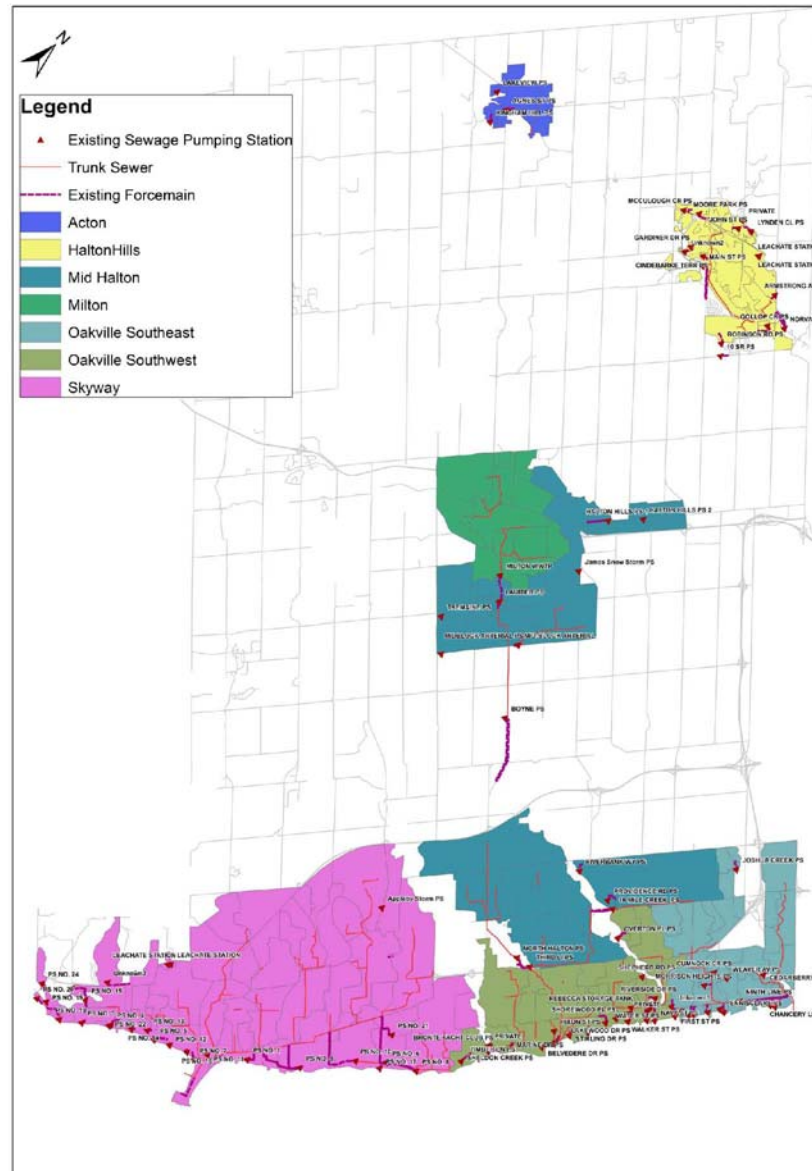
	OPTION W1 EXPAND 2021 NETWORK			OPTION W2 THIRD SPINE				OPTION W3 INTER-REGIONAL		
	W1A	W1B	W1C	W2A	W2B	W2C	W2D	W3A	W3B	W3C
	Georgetown & Milton East/HH 401 Corridor fed from Zone 4 Reservoir	Georgetown fed from Zone 4 Reservoir	Georgetown fed from Zone 5 Reservoir	Appleby Line Reservoir 3rd Spine	Bronte Third Spine	James Snow Parkway Third Spine	Eighth Line Third Spine	Peel supply Zone 5	Peel supply Zone 6	Peel supply Zone 1, 2 & 3
	<p>Leverages existing infrastructure for full build-out</p> <p>Greater flexibility for sizing and design of currently planned infrastructure to support strategy</p> <p>Halton only servicing concept</p> <p>Provides Halton Hills and Milton Z5 redundancy/security</p>	<p>Leverages existing infrastructure for full build-out</p> <p>Greater flexibility for sizing and design of currently planned infrastructure to support strategy</p> <p>Halton only servicing concept</p>	<p>Zone 5 Reservoir will be in place sooner than Zone 4</p> <p>Leverages existing infrastructure for full build-out</p> <p>Halton only servicing concept</p>	<p>Addresses potential for full build-out needs</p> <p>Potential to create further redundancy in Burlington/Oakville system</p> <p>Independent feed to Milton (not reliant on Kitchen PS & RR25 and Trafalgar spines)</p> <p>Provides Halton Hills and Milton Z5 redundancy</p> <p>Halton only servicing concept</p>	<p>Addresses potential for full build-out needs</p> <p>Independent feed to Milton (not reliant on Kitchen PS & RR25 and Trafalgar spines)</p> <p>Provides Halton Hills and Milton Z5 redundancy</p> <p>Increased redundancy with direct supply from water purification plant</p> <p>Halton only servicing concept</p>	<p>Addresses potential for full build-out needs</p> <p>More direct feed to growth area</p> <p>Provides Halton Hills and Milton Z5 redundancy</p> <p>Increased supply redundancy to Milton</p> <p>Potential to integrate with James Snow Pkwy road construction</p> <p>Halton only servicing concept</p>	<p>Addresses potential for full build-out needs</p> <p>Potential to defer Burloak WPP expansion by optimizing Oakville WPP within existing site</p> <p>Increased supply redundancy to Milton</p> <p>Provides Halton Hills and Milton Z5 redundancy</p> <p>Halton only servicing concept</p>	<p>Existing Peel infrastructure in close proximity to Halton service areas</p> <p>Provides security to Halton Hills Zone 5 and Milton Zone 5 and supports new Halton Hills Zone 6</p> <p>Potential to provide early phasing strategy</p> <p>Potential to defers Burloak WPP expansion</p> <p>Eliminates need for some Milton Z5 infrastructure i.e. backfeed to Hwy 401 corridor from Zone 4 Reservoir</p>	<p>Existing Peel infrastructure in close proximity to Halton service areas</p> <p>Potential to provide early phasing strategy</p> <p>More direct feed to Georgetown</p> <p>Potential to defer Burloak WPP expansion</p>	<p>Existing Peel infrastructure in close proximity to Halton service areas</p> <p>Potential to defer Burloak WPP expansion</p>
	<p>Requires extra Hwy 401 Crossing</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Does not provide Halton Hills or Milton East Zone 5 redundancy</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Does not provide Halton Hills or Milton East Zone 5 redundancy</p> <p>Less flexibility for sizing and design of currently planned infrastructure to support strategy</p> <p>One feed to Georgetown no supply redundancy</p>	<p>New crossing through Greenbelt required</p> <p>Requires extra Hwy 401 Crossing</p> <p>Overly redundant (not needed to service 2031 growth)</p> <p>Does not maximize existing infrastructure (new feeder mains and pumping stations required)</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Potential alignment constraints</p> <p>New crossing through Greenbelt required</p> <p>Requires extra Hwy 401 Crossing</p> <p>Does not maximize existing infrastructure (new feeder mains and pumping stations required)</p> <p>Overly redundant (not needed to service 2031 growth)</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Significant crossings required</p> <p>Requires extra Hwy 401 Crossing</p> <p>Would require coordination with planned Zone 4 North Oakville BPS</p> <p>Does not maximize existing infrastructure (new feeder mains and pumping stations required)</p> <p>Overly redundant (not needed to service 2031 growth)</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Significant new Eighth Line infrastructure required (i.e. twinning of existing feeder main)</p> <p>Requires extra Hwy 401 Crossing</p> <p>Does not maximize existing infrastructure (new feeder mains and pumping stations required)</p> <p>Overly redundant (not needed to service 2031 growth)</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Fundamentals of agreement needs to be established</p> <p>Confirmation of available Peel capacity and trunk system impacts need to be confirmed</p> <p>Need to enter into Inter-regional cost sharing supply agreement</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Fundamentals of agreement needs to be established</p> <p>Confirmation of available Peel capacity and trunk system impacts need to be confirmed</p> <p>Need to enter into Inter-regional cost sharing supply agreement</p> <p>Requires extra Hwy 401 Crossing</p> <p>Reliant on greater amount of Peel infrastructure than 3A</p> <p>One feed to Georgetown no supply redundancy</p>	<p>Fundamentals of agreement needs to be established</p> <p>Confirmation of available Peel capacity and trunk system impacts need to be confirmed</p> <p>Need to enter into Inter-regional cost sharing supply agreement</p> <p>Northern Halton infrastructure required to supply Milton and Georgetown</p> <p>Requires extra Hwy 401 Crossing</p> <p>One feed to Georgetown no supply redundancy</p> <p>Does not maximize opportunity to optimize Oakville WPP</p>
Score										

Wastewater Servicing Evaluation Purpose & Methodology

- Meet MOE effluent quality requirements
- Evaluate growth and inflow and infiltration
- Consider system security and redundancy
- Ensure that operating considerations are addressed



Existing Wastewater Infrastructure



Wastewater Servicing Concepts Evaluation

Objectives

- 2031 servicing vision exercise
- Consider multiple servicing concepts
- High level evaluation of concepts
- Screen out servicing concepts / sub-concepts
- Select preferred servicing concepts / sub-concepts for further detailed evaluation

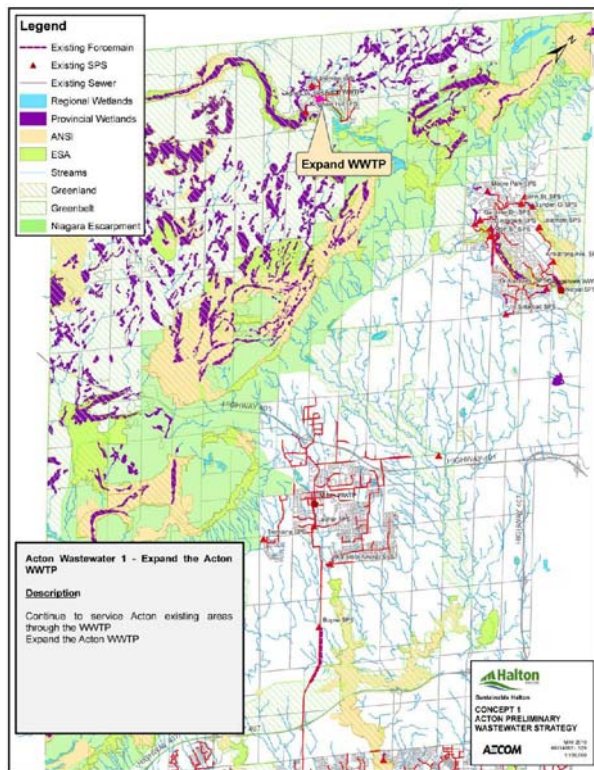
2031 Acton Wastewater Servicing Concepts

- Concept 1 - Expand Treatment Capacity in Acton
- Concept 2 Reduce Inflow and Infiltration
- Concept 3 Trunk Sewer Diversion

Acton Wastewater Servicing Concepts

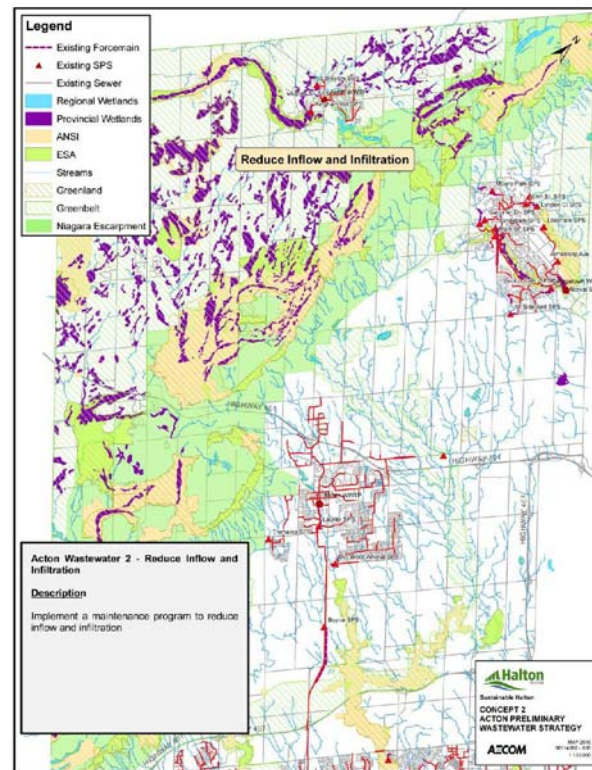
Concept 1

- Expand Treatment Capacity in Acton



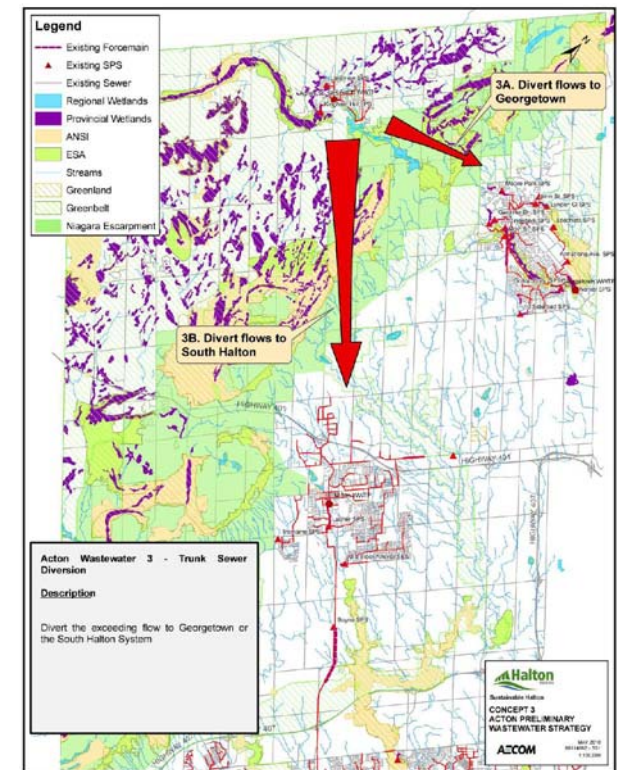
Concept 2

- Reduce Inflow and Infiltration



Concept 3

- Trunk Sewer Diversion



Summary Evaluation Table

Acton Wastewater Servicing Concepts

	WW1	WW2	WW3A	WW3B
	Expand the Acton WWTP	Reduce Inflow and Infiltration	Trunk Sewer Diversion - Send flows to the Georgetown WW System	Trunk Sewer Diversion - Send flows to the South Halton WW System
	Maximizes existing infrastructure Addresses growth within existing urban boundary	Maximizes existing infrastructure No major upgrades required	No upgrades required to existing plant Provides redundancy	No upgrades required to existing plant Provides redundancy Could potentially address full build-out needs
	Potential impacts during construction Assessment of site capacity required Requirement to meet stringent effluent discharge criteria	Requires implementation of flow reduction program Potential to not meet flow reduction targets Generally dependent on public participation and commitment	Protected Area (NEC) Crossing Potential imbalance of water budget High cost for new infrastructure High reliance on capacity in Georgetown	Protected Area (NEC) Crossing Potential imbalance of water budget High cost for new infrastructure
SCORE				

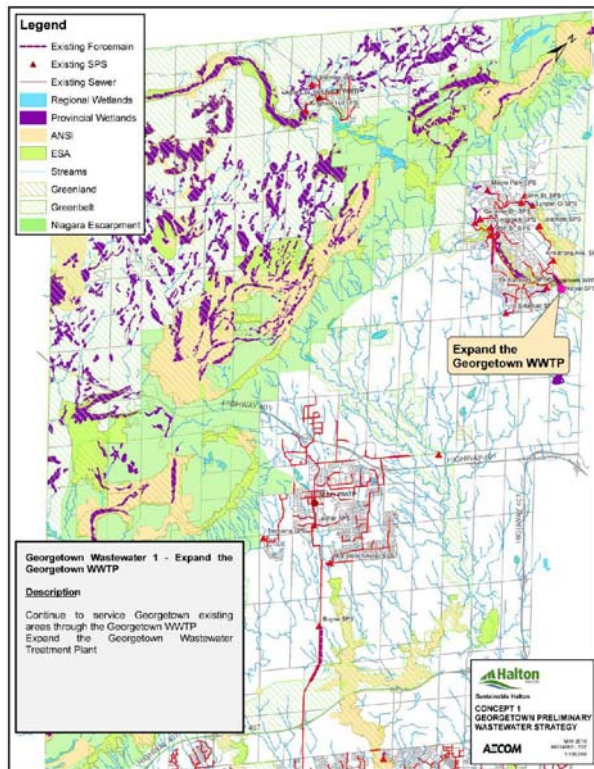
2031 Georgetown Wastewater Servicing Concepts

- Concept 1 - Expand Treatment Capacity in Georgetown
- Concept 2 Reduce Inflow and Infiltration
- Concept 3 Trunk Sewer Diversion

Georgetown Wastewater Servicing Concepts

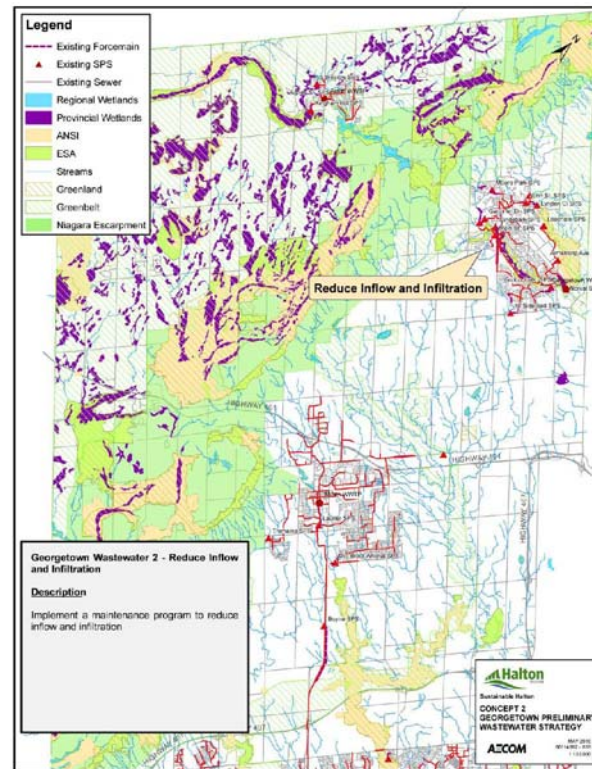
Concept 1

- Expand Treatment Capacity in Georgetown



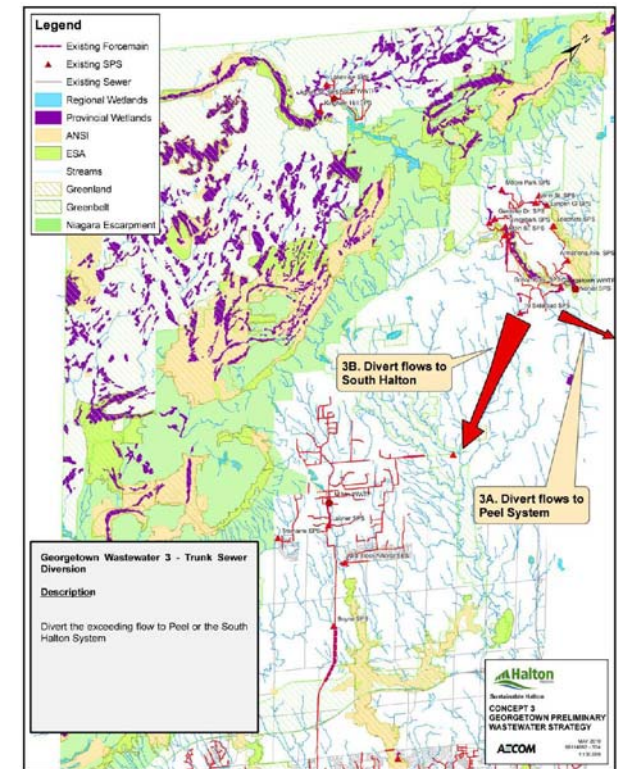
Concept 2

- Reduce Inflow and Infiltration



Concept 3

- Trunk Sewer Diversion



Summary Evaluation Table

Georgetown Wastewater Servicing Concepts

	WW1	WW2	WW3A	WW3B
	Expand the Georgetown WWTP	Reduce Inflow and Infiltration	Trunk Sewer Diversion - Send flows to the Peel WW System	Trunk Sewer Diversion - Send flows to the South Halton WW System
	<p>Maximizes existing infrastructure</p> <p>Addresses growth within existing urban boundary</p>	<p>Maximizes existing infrastructure</p> <p>No major upgrades required</p>	<p>No upgrades required to existing plant for growth</p> <p>Provides redundancy</p> <p>Addresses greenfield growth and could consider full system capacity</p>	<p>No upgrades required to existing plant for growth</p> <p>Provides redundancy</p> <p>Addresses greenfield growth and could consider full system capacity</p>
	<p>Potential impacts during construction</p> <p>Assessment of site capacity required</p> <p>Requirement to meet stringent effluent discharge criteria</p> <p>Concern regarding meeting the full buildout requirements</p>	<p>Requires implementation of flow reduction program</p> <p>Potential to not meet flow reduction targets</p> <p>Generally dependent on public participation and commitment</p>	<p>Potential impact on local aquifer due to water balance management</p> <p>High cost for new infrastructure</p> <p>Confirmation of available Peel capacity and trunk system impacts need to be confirmed</p> <p>Fundamentals of agreement need to be established</p>	<p>Potential imbalance of water budget</p> <p>High cost for new infrastructure would require coordination with post 2021 service area</p>
SCORE				

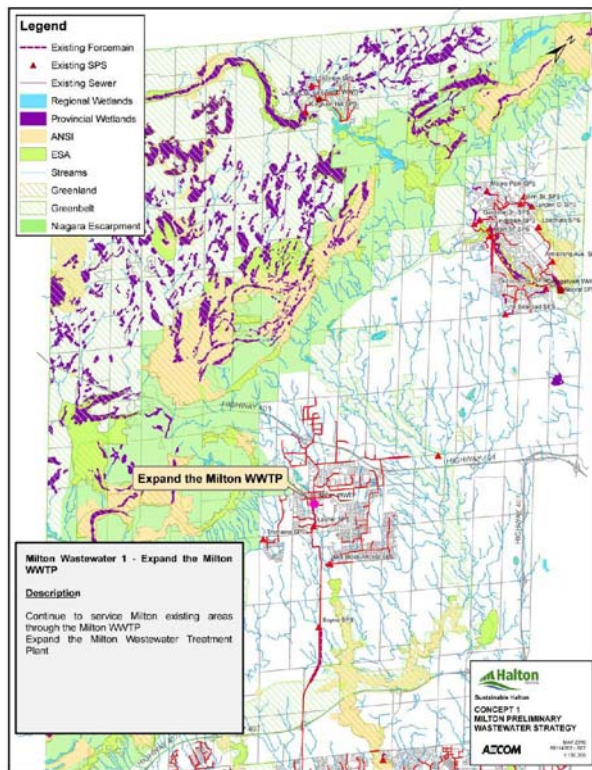
2031 Milton Wastewater Servicing Concepts

- Concept 1 - Expand Existing Milton Wastewater Treatment Plant
- Concept 2 - Divert Exceeding Flows to Mid-Halton Drainage Area

Milton Wastewater Servicing Concepts

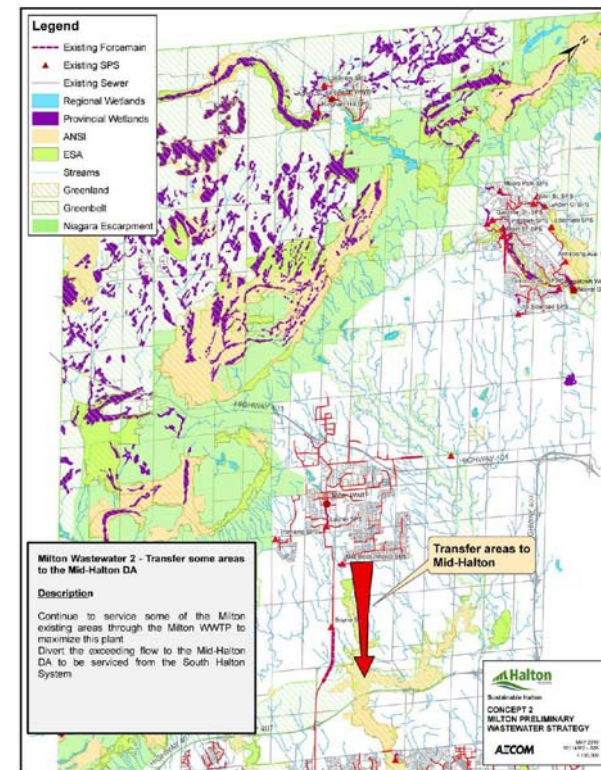
Concept 1

- Expand Existing Milton Wastewater Treatment Plant



Concept 2

- Divert Exceeding Flows to Mid-Halton Drainage Area



Summary Evaluation Table

Milton Wastewater Servicing Concepts

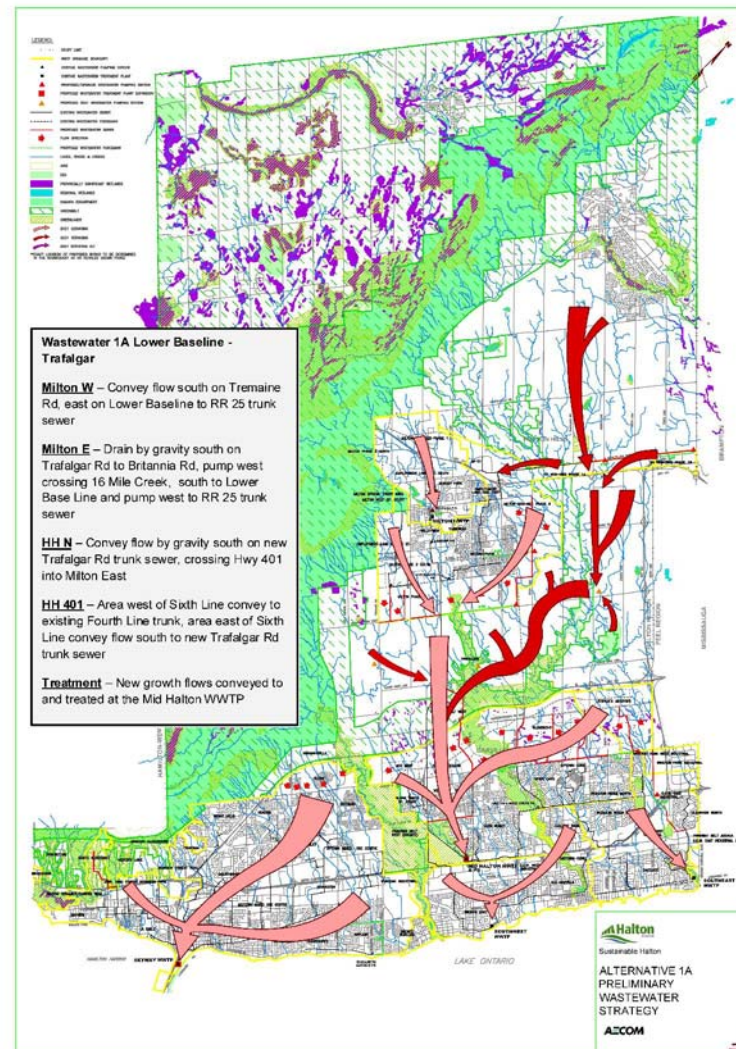
	WW1	WW2
	Expand Existing Milton Wastewater Treatment Plant	Transfer Flows to Mid-Halton Drainage Area
	Maximizes existing infrastructure	<p>Addresses build-out requirements of existing service area</p> <p>Maximizes existing Lake based infrastructure</p> <p>Opportunity for staging. Lake based servicing already provided in Milton</p> <p>Opportunity to consider transfer of the full system</p> <p>Allowance for redundancy</p> <p>No upgrade required to existing plant</p> <p>Status Quo</p>
	<p>Concern that the existing plant site/stream capacity can not meet buildout requirements. System is currently diverting flows to Mid Halton.</p> <p>Potential impacts during construction</p> <p>Requirement to meet stringent effluent discharge criteria</p>	<p>Requires operational plans to implement</p> <p>Capacity required at Lake based system</p> <p>Assessment of stream flow requirements is needed if plant flows are reduced</p>
SCORE		

2031 South Wastewater Servicing Concepts

- Concept 1 Lower Baseline
- Concept 2 Britannia Road
- Concept 3 North Oakville
- Concept 4 Peel Inter-regional

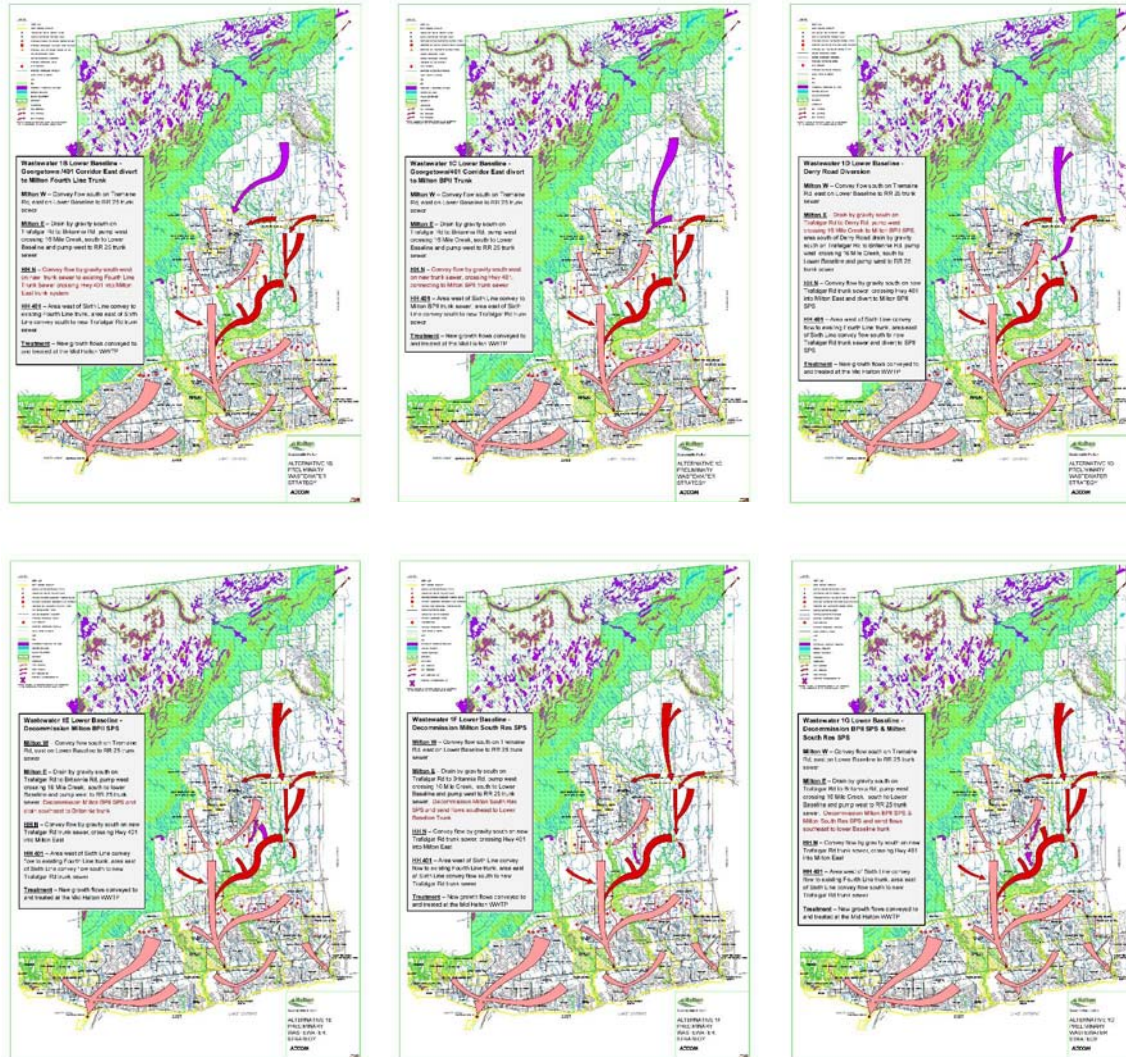
South Lake Wastewater Servicing Concepts

Concept 1 - Lower Baseline



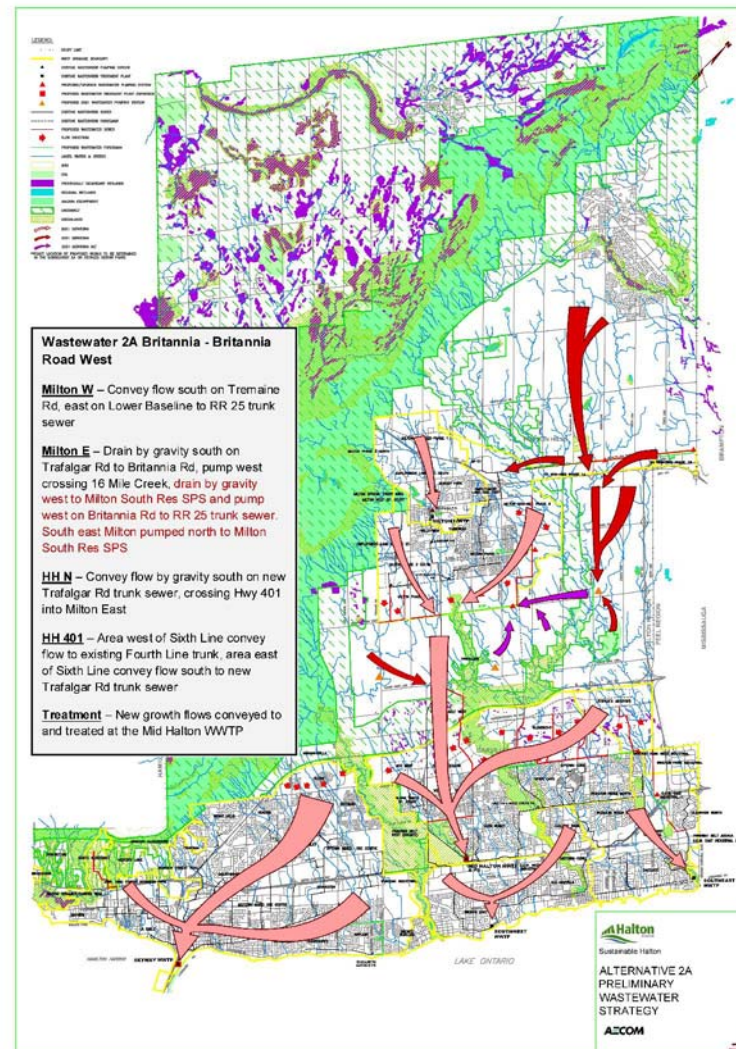
South Lake Wastewater Servicing Concepts

Concept 1 – Lower Baseline



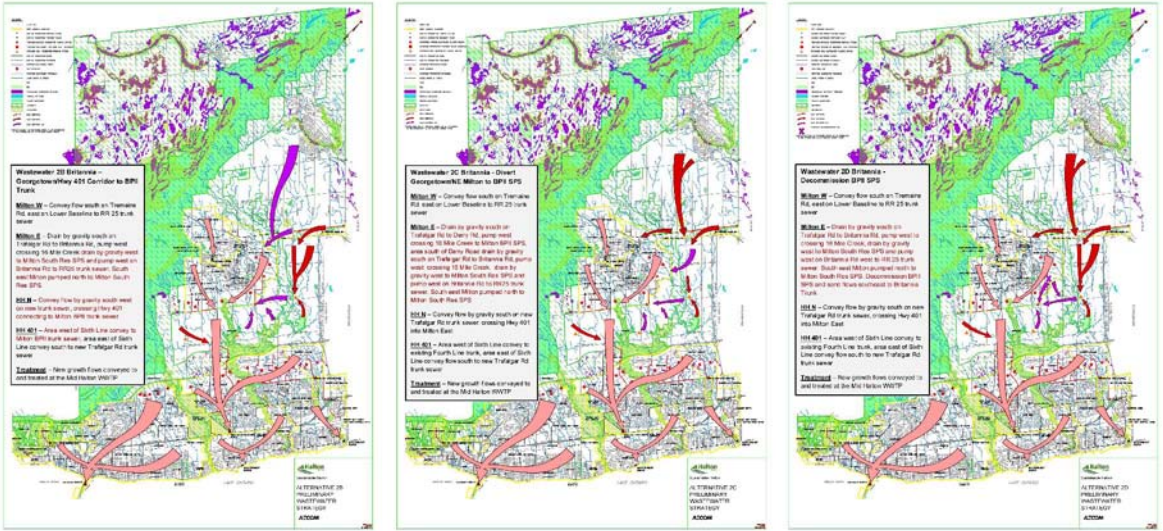
South Lake Wastewater Servicing Concepts

Concept 2 – Britannia Road



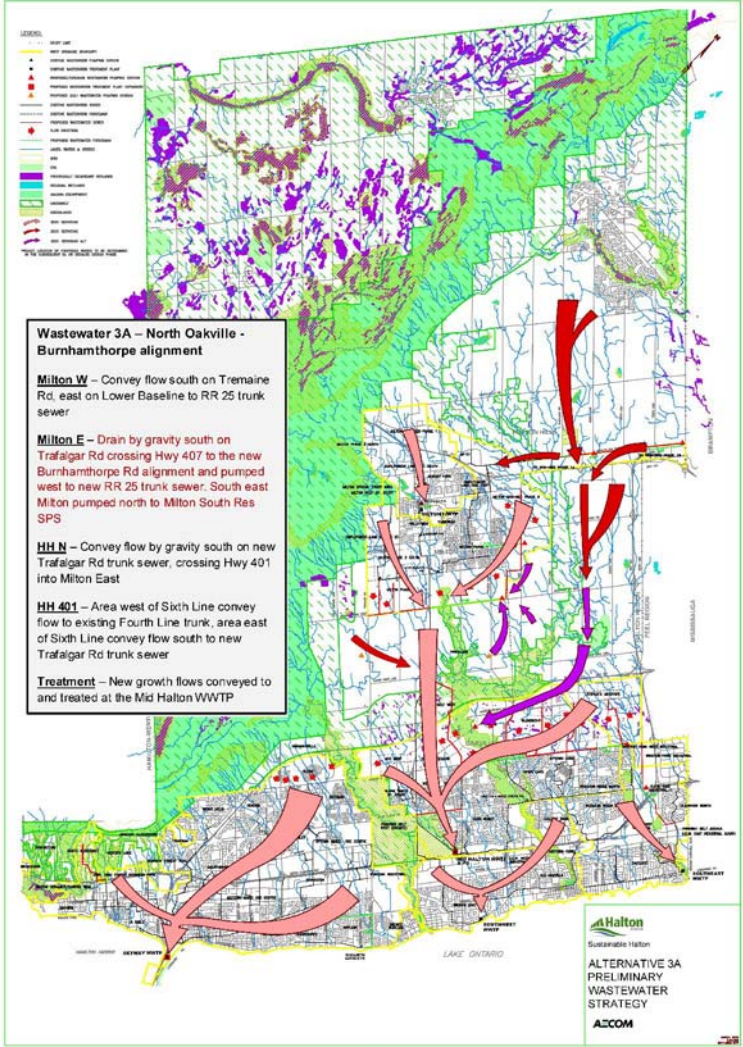
South Lake Wastewater Servicing Concepts

Concept 2 – Britannia Rd.



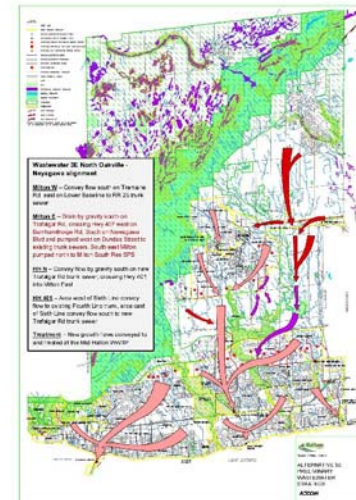
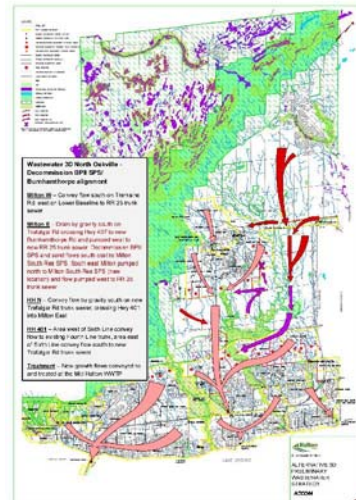
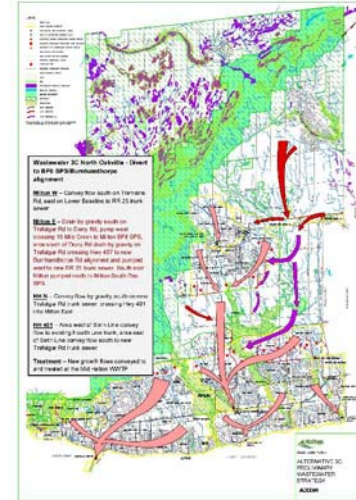
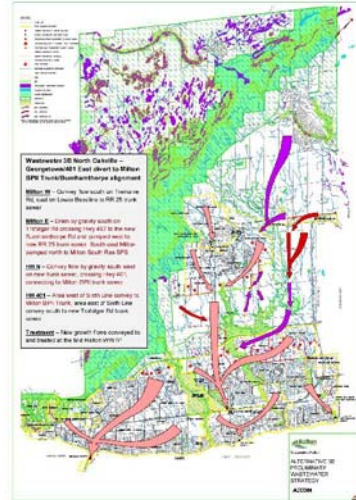
South Lake Wastewater Servicing Concepts

Concept 3 – North Oakville



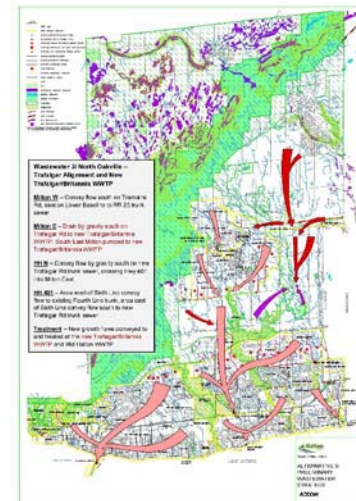
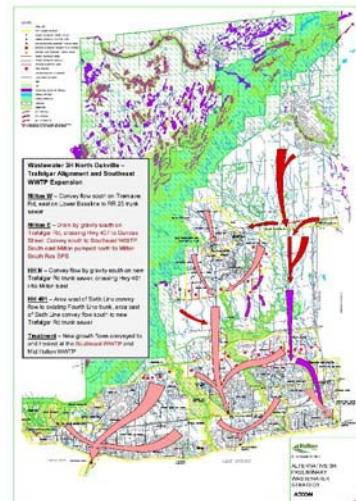
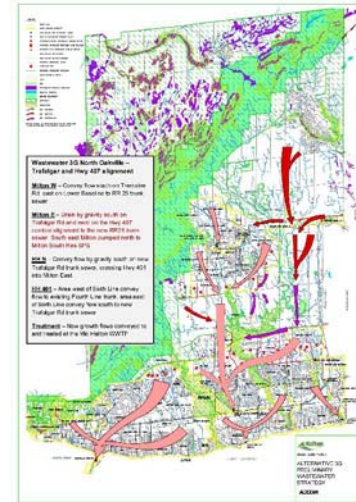
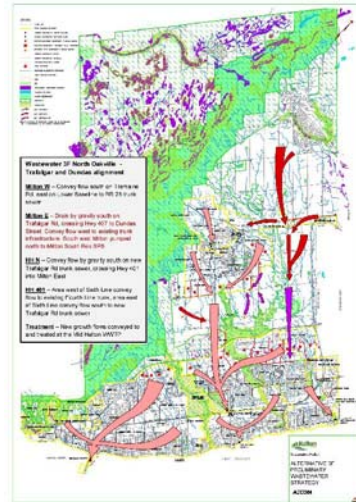
South Lake Wastewater Servicing Concepts

Concept 3 – North Oakville



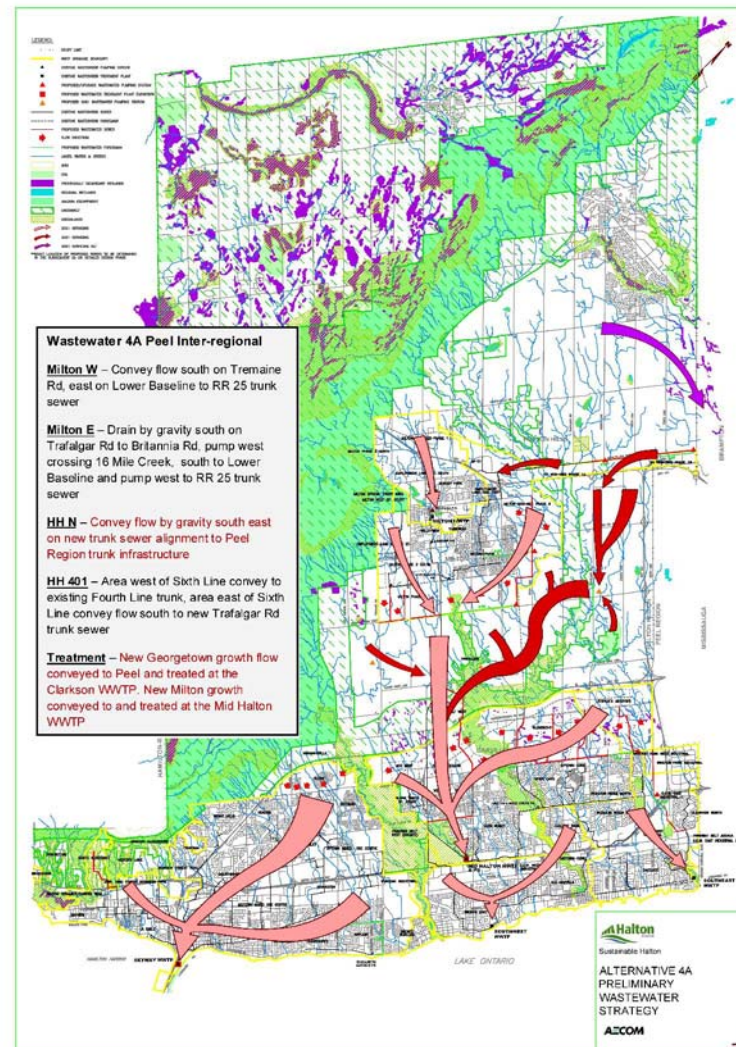
South Lake Wastewater Servicing Concepts

Concept 3 – North Oakville



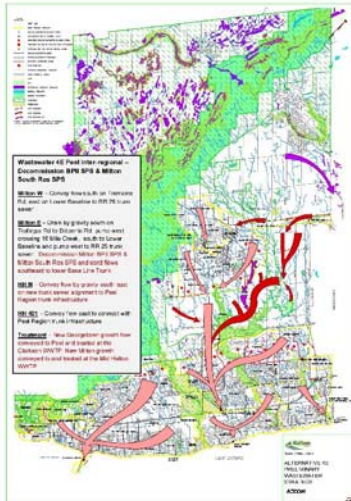
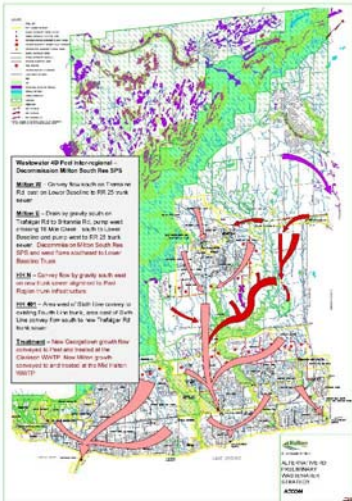
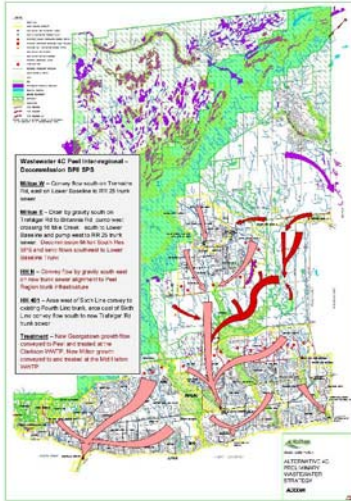
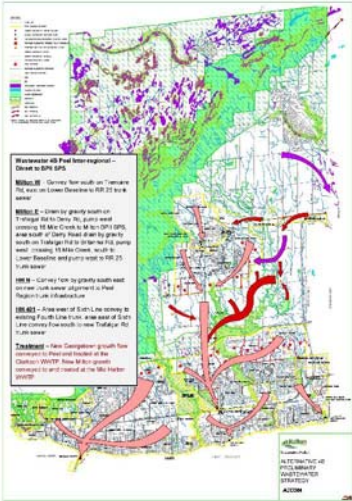
South Lake Wastewater Servicing Concepts

Concept 4 – Peel Inter-regional



South Lake Wastewater Servicing Concepts

Concept 4 – Peel Inter-regional



Summary Evaluation Table

South Lake Wastewater Servicing Concepts

	OPTION WW1 LOWER BASELINE							OPTION WW2 BRITANNIA			
	1A	1B	1C	1D	1E	1F	1G	2A	2B	2C	2D
	Lower Baseline - Trafalgar	Georgetown/401 Corridor East divert to Milton Fourth Line Trunk	Georgetown/401 Corridor East divert to Milton BP11 Trunk	Derry Road Diversion	Decommission Milton Business Park II SPS	Decommission Milton South Res SPS	Decommission Business Park II SPS & South Res SPS	Britannia Road West	Georgetown/Hwy 401 Corridor to BP11 Trunk	Divert Georgetown/NE Milton to BP11 SPS	Decommission Business Park II SPS
POSITIVE	Builds on to existing servicing strategy Provides an independent 2nd spine trunk sewer Maximizes Milton Fourth Line Trunk Capacity Greenfield growth triggers new infrastructure and minimizes impact on existing Halton only servicing concept	Provide servicing to Georgetown from existing infrastructure Maximizes Milton Fourth Line Trunk Capacity Halton only servicing concept	Provide servicing to Georgetown from near term infrastructure Potential to size Business Park II projects for increased flow Opportunity for phasing Halton only servicing concept	Potential phasing opportunities for areas north of Derry Rd Maximizes Milton Fourth Line Trunk Capacity Halton only servicing concept	Potential to lower O&M costs by reducing SPS Maximizes Milton Fourth Line Trunk Capacity Halton only servicing concept	Potential to lower O&M costs by reducing SPS Maximizes Milton Fourth Line Trunk Capacity Greater flexibility for sizing and design to support strategy Halton only servicing concept	Potential to lower O&M costs by reducing SPS Maximizes Milton Fourth Line Trunk Capacity Halton only servicing concept	Maximizes existing / planned infrastructure Maximizes Milton Fourth Line Trunk Capacity Potential to minimize environmental crossings Opportunity for phasing Milton South Halton only servicing concept	Provide servicing to Georgetown from near term infrastructure Maximizes existing / planned infrastructure Potential to size Business Park II projects Opportunity for phasing Milton South Halton only servicing concept	Potential phasing opportunities for areas north of Derry Rd Maximizes existing / planned infrastructure Potential to size Business Park II projects Maximizes Milton Fourth Line Trunk Capacity Opportunity for phasing Milton South Halton only servicing concept	Maximizes existing / planned infrastructure Potential to lower O&M costs by reducing SPS Maximizes existing infrastructure Maximizes Milton Fourth Line Trunk Capacity Halton only servicing concept
NEGATIVE	Potentially more complex phasing opportunities Requires significant environmental crossing	Limited capacity on existing Milton trunk sewer Significant environmental crossings on Georgetown alignment Georgetown alignment requires pumping Higher construction and O&M costs for SPS Requires significant environmental crossing	No significant benefit to take Georgetown flow to Business Park II infrastructure Requires immediate coordination with current Business Park II projects Less flexibility for sizing and design due to BP11 timing Significant crossing at Derry Rd. either by deep sewer or sewage pumping station with higher O&M costs Requires substantial oversizing for a significantly deferred need Does not maximize existing/planned infrastructure Requires significant environmental crossing	Requires immediate coordination with current Business Park II projects Less flexibility for sizing and design due to BP11 timing Significant crossing at Derry Rd. either by deep sewer or sewage pumping station with higher O&M costs Requires upgrades to East Milton Infrastructure Requires significant environmental crossing	Requires re-routing of planned infrastructure to eliminate one sewage pumping station Only feasible if connection south of Lower Baseline is possible Less flexibility for sizing and design due to BP11 timing Requires immediate coordination with current Business Park II projects Dependent on accelerating new trunk infrastructure Requires significant environmental crossing	Only feasible if connection south of Lower Baseline is possible Dependent on accelerating new trunk infrastructure Requires immediate coordination with current Business Park II projects Requires significant environmental crossing	Only feasible if connection south of Lower Baseline is possible Dependent on accelerating new trunk infrastructure Less flexibility for sizing and design due to BP11 timing Requires immediate coordination with current Business Park II projects Requires significant environmental crossing	Provides less redundancy Requires upgrades to existing / planned infrastructure Less flexibility to service buildout areas Very reliant on pumping	Provides less redundancy Requires upgrades to existing / planned infrastructure New Hwy401 crossing required Very reliant on pumping Less flexibility for sizing and design due to BP11 timing Requires immediate coordination with current Business Park II projects	Provides less redundancy Requires upgrades to existing / planned infrastructure Very reliant on pumping Less flexibility for sizing and design due to BP11 timing Requires immediate coordination with current Business Park II projects Significant crossing at Derry Rd. either by deep sewer or sewage pumping station with higher O&M costs	Provides less redundancy Requires upgrades to existing / planned infrastructure Provides less redundancy Very reliant on pumping Less flexibility for sizing and design due to BP11 timing Requires immediate coordination with current Business Park II projects Dependent on accelerating new trunk infrastructure

Summary Evaluation Table

South Lake Wastewater Servicing Concepts

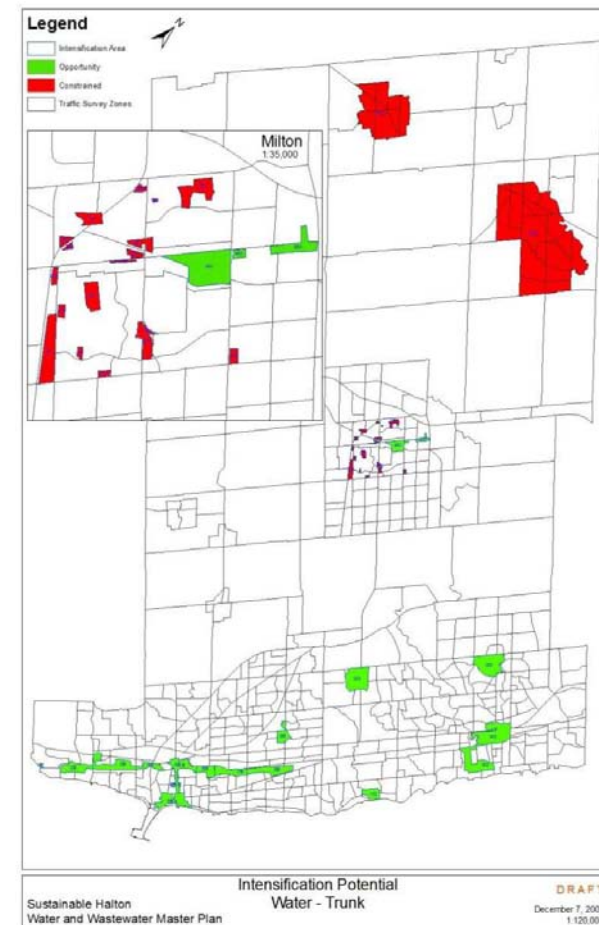
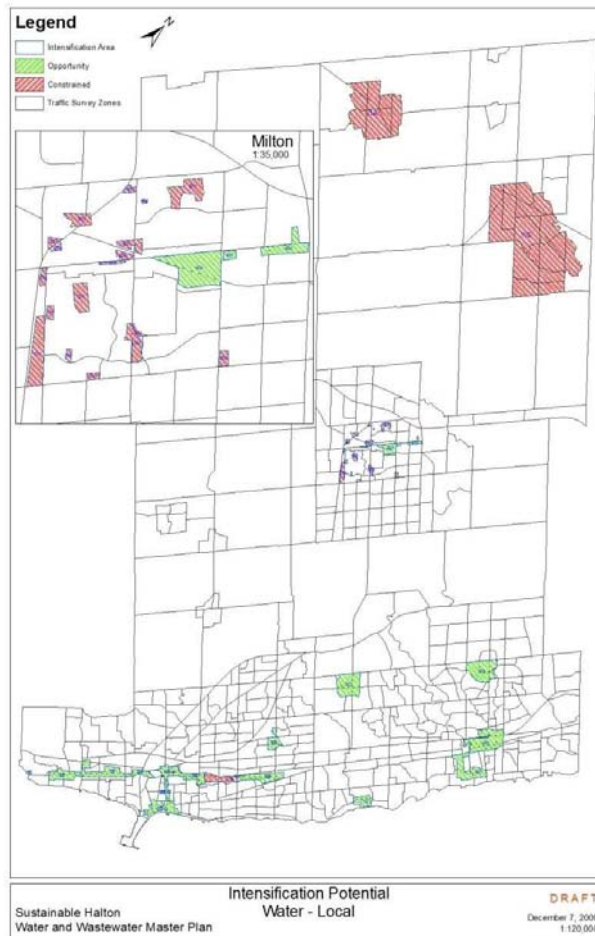
	OPTION WW3 NORTH OAKVILLE									OPTION WW4 PEEL INTER-REGIONAL				
	3A	3B	3C	3D	3E	3F	3G	3H	3I	4A	4B	4C	4D	4E
	Burnhamthorpe Alignment	Georgetown/401 East divert to Milton BPII Trunk/Burnhamthorpe Alignment	Divert to BPII SPS/Burnhamthorpe Alignment	Decommission BPII SPS/Burnhamthorpe Alignment	Neyagawa Alignment	Trafalgar & Dundas Alignment	Trafalgar & Hwy 407 Alignment	Trafalgar Alignment & Southeast WWTP Expansion	Trafalgar Alignment & New Trafalgar Britannia WWTP	Peel Inter-regional	Divert to BPII SPS	Decommission BPII SPS	Decommission Milton South Res SPS	Decommission BPII SPS & Milton South Res SPS
	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Provides an independent 2nd spine trunk sewer	Potential phasing option for Georgetown	Potential phasing opportunities	Potential phasing option for Georgetown	Potential phasing option for Georgetown	Potential phasing option for Georgetown
	Opportunity to coordinate with road construction	Potential to size Business Park II projects	Potential phasing opportunities for areas north of Derry Rd	Potential to lower O&M costs from reducing SPS	Opportunity for phasing	Maximizes Milton Fourth Line Trunk Capacity	Maximizes Milton Fourth Line Trunk Capacity	Maximizes Milton Fourth Line Trunk Capacity	Maximizes Milton Fourth Line Trunk Capacity	Existing Peel infrastructure is close proximity to Halton service areas	Maximizes Milton Fourth Line Trunk Capacity	Existing Peel infrastructure is close proximity to Halton service areas	Existing Peel infrastructure is close proximity to Halton service areas	Existing Peel infrastructure is close proximity to Halton service areas
	Maximizes Milton Fourth Line Trunk Capacity	Opportunity for phasing	Maximizes existing infrastructure	Opportunity to coordinate with road construction	Opportunity for phasing	Halton only servicing concept	Halton only servicing concept	Halton only servicing concept	Halton only servicing concept	Maximizes Milton Fourth Line Trunk Capacity	Potential to lower O&M costs from reducing SPS	Potential to lower O&M costs from reducing SPS	Potential to lower O&M costs from reducing SPS	Potential to lower O&M costs from reducing SPS
	Potential for lower environmental impacts	Opportunity to coordinate with road construction	Opportunity for phasing	Opportunity for phasing	Halton only servicing concept	Halton only servicing concept	Halton only servicing concept	Halton only servicing concept	Halton only servicing concept		Maximizes Milton Fourth Line Trunk Capacity	Maximizes Milton Fourth Line Trunk Capacity	Potential phasing for Georgetown	Maximizes Milton Fourth Line Trunk Capacity
	Greater flexibility for sizing and design to support strategy	Potential for lower environmental impacts	Maximizes Milton Fourth Line Trunk Capacity	Maximizes Milton Fourth Line Trunk Capacity	Maximizes Milton Fourth Line Trunk Capacity								Greater flexibility for sizing and design to support strategy	
	Halton only servicing concept	Halton only servicing concept	Opportunity to coordinate with road construction	Potential for lower environmental impacts	Halton only servicing concept								Maximizes Milton Fourth Line Trunk Capacity	
	Does not maximize existing / planned infrastructure	Does not maximize existing / planned infrastructure	Significant crossing at Derry Rd. either by deep sewer or sewage pumping station	Does not maximize existing / planned infrastructure	Requires upgrades to existing / planned infrastructure	Requires upgrades to existing / planned infrastructure	Does not maximize existing infrastructure	Requires substantial upgrades to existing infrastructure	High costs and challenging approvals for new plant	Fundamentals of agreement with Peel need to be established	Requires upgrades to existing Infrastructure	Requires upgrades to existing infrastructure	Requires upgrades to existing infrastructure	Highly reliant on 2nd spine completion
	Dependent on road / bridge construction coordination	Dependent on road / bridge construction coordination	Potential for higher O&M costs	Dependent on road / bridge construction coordination	North Oakville infrastructure not adequately sized	North Oakville infrastructure not adequately sized	Higher construction cost	Limited site for expansion	Does not maximize existing infrastructure and long term treatment strategy	Confirmation of available capacity and/or trunk system impacts need to be confirmed	Requires immediate coordination with current Business Park II projects	Requires re-routing of planned infrastructure to eliminate one sewage pumping station	Fundamentals of agreement with Peel need to be established	Fundamentals of agreement with Peel need to be established
	Minimal phasing opportunities	Potential for higher O&M costs	Dependent on road / bridge construction coordination	Requires upgrades to existing / planned infrastructure	Requires upgrades to existing / planned infrastructure	Does not maximize existing infrastructure	Higher construction cost	Major construction required through existing highly populated area		Requires cost sharing agreement	Fundamentals of agreement with Peel need to be established	Fundamentals of agreement with Peel need to be established	Confirmation of available capacity and/or trunk system impacts need to be confirmed	Confirmation of available capacity and/or trunk system impacts need to be confirmed
		Requires upgrades to existing / planned infrastructure	Requires upgrades to existing infrastructure	Less flexibility for sizing and design due to BPII timing	Less flexibility for sizing and design due to BPII timing	Requires substantial upgrades to existing infrastructure	Requires substantial upgrades to existing infrastructure			Requires cost sharing agreement	Confirmation of available capacity and/or trunk system impacts need to be confirmed	Confirmation of available capacity and/or trunk system impacts need to be confirmed	Requires cost sharing agreement	Requires cost sharing agreement
		Less flexibility for sizing and design due to BPII timing	Less flexibility for sizing and design due to BPII timing							Requires cost sharing agreement	Requires cost sharing agreement	Requires cost sharing agreement	Requires cost sharing agreement	
		No significant benefit to take Georgetown flow to Business Park II infrastructure	Requires immediate coordination with current Business Park II projects							Requires immediate coordination with current Business Park II projects	Requires immediate coordination with current Business Park II projects	Requires immediate coordination with current Business Park II projects	Requires immediate coordination with current Business Park II projects	
		Requires immediate coordination with current Business Park II projects	Does not maximize existing infrastructure											
Score														



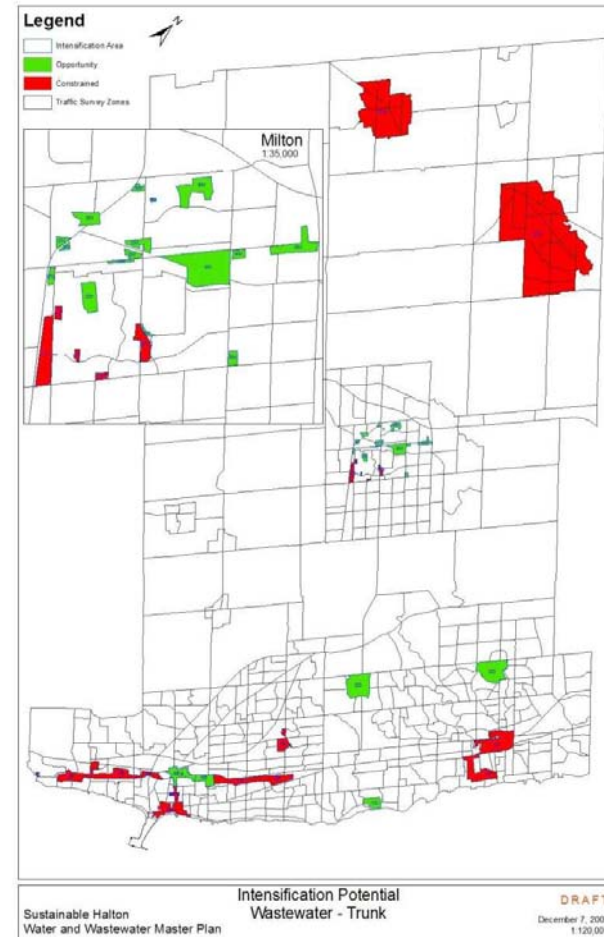
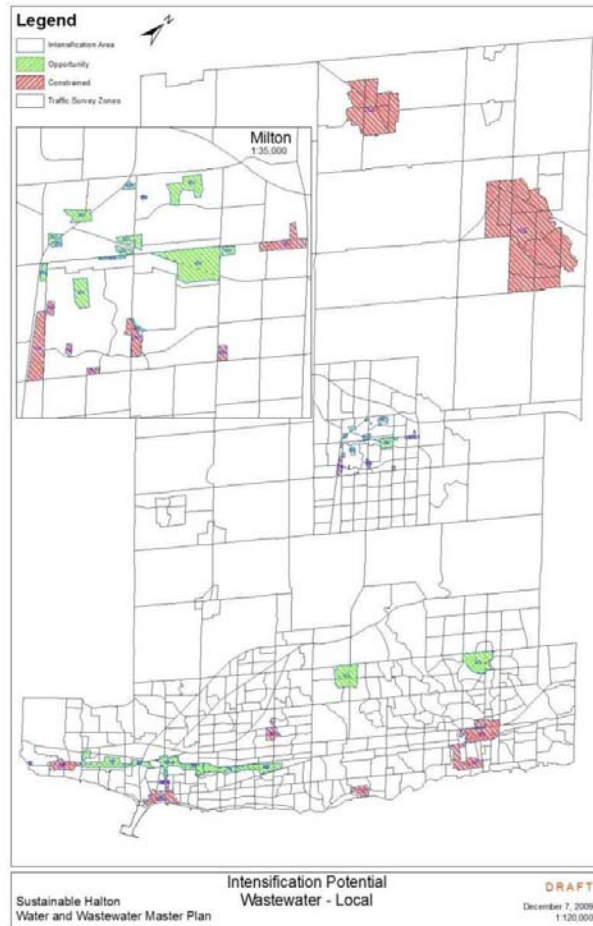
Intensification

- Intensification analysis included a review of potential impact to existing local and trunk level infrastructure
- Analysis was presented to Halton Area Planning Partnership (HAPP) Dec 2009
- Trunk level projects triggered by intensification will be included in the Master Plan Preferred Strategy Capital Program

Water Local and Trunk System Evaluation



Wastewater Local and Trunk System Evaluation



Other Related Studies & Projects

- The Master Plan will consolidate information related to previous Studies and Master Plans and where possible integrate the findings of studies running concurrently.
- The following Regional studies are running concurrently and are to be considered:

Sustainable Halton Planning Process

Halton Region Transportation Master Plan

Lindsay Court Well Field Re-rating Class EA

Acton Wastewater Treatment Plant Class EA

South Halton Sewage Pumping Station Master Plan

Halton Region Bio-solids Master Plan

Next Steps

- PIC #1 May 26, 27,31 and June 2
- Finalize shortlist of servicing concepts
- Finalize technical, environmental and hydro-geological baseline position for use in the alternative servicing evaluation
- Detailed alternative servicing analysis, triple bottom line evaluation & hydraulic modeling
- Fall 2010 PIC 2 MP Class EA Preliminary Preferred Servicing Solution supported by Capital Program
- Nov 2010 Regional Fiscal Impact Analysis requires preliminary W/WW Capital Program
- Late Spring 2011 MP Class EA Report Filed
- Spring 2011 DC By-law Update

Thank you for your participation



PUBLIC INFORMATION CENTRE #1

SIGN-IN SHEETS



SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, May 26, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	Carmela Riggio	Delta Urban Inc.		
	Susan Zuccheri	FANDOR HOMES		
	COLINE BEST	COUNCILLOR		
	Kiyoshi Oka	Halton staff		
	York Group!	York Trutfulgar Corp		
	PETER MEIKLESON	" " "		
	ANTON UDALTSOV			
	STEPHANIE JARVIS	TOWN OF MILTON		
	Bruce MacLean	Town of Halton Hill		
	Jim Steeves			

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, May 26, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	Nicole Weber			
	KENNETH NG			
	David Brink			
	LIN APPLETON			

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study Public Information Centre No. 1, May 27, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	Ken Woodruff / Burlington Green	* Hand copy		
	Paul Pilblado - Palotta International			
	Daniel Neeson			
	Ross Kay			
	CHRIS POWELL	METRO POLITAN CONSULTING INC		

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, May 31, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	FRED OLIVE R			
	ALAN JOHNSTON	CCLD WARD 1 OAKVILLE		
	WICKLOW SQ			
	JOHN DUONG	HALTON		
	DAVID FAYE			
	CHRISTINE CÔTE			
	DOUG WALMSLEY			
	SHIRLEY WALMSLEY			
	RIC ROBERTSHAW			
	Michelle Zompa	Halton Region		

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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, May 31, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	GORD PATTERSON SFRQAS Assoc			
	Tom Adams	council		
	DRAGO VUKOVIC			
	PAUL MASLOVSKIS			
	DAVID NELSON			
	PAUL BROWN			

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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, May 31, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	DOUGLAS MCGILL	MCGILL DEVELOPMENT SERVICES		

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, June 2, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	P.O.W.E.R Halton - Malcolm		—	
	John Taglieri	Lornel Homes		
	MIKE O'LEARY	Town of Halton Hills COUNCILLOE		
	James Etienne	Grand River Conservation Authority		

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan
 Municipal Class Environmental Assessment Study
 Public Information Centre No. 1, June 2, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	Marilyn Wick Wieck			—
	GEORGE ZUKOVIS			
	Renée Brown			
	Jane Fogal	Town -		
	Steve Burke	Town of Halton Hills Planning		
	Rob Witham	MMM Group Ltd.		
	RON BALDESARZA	RAWDVEST INC		
	Mary Kelly			
	Carly Holowanic			
	LISA TALLYN	INDEPENDENT FREE PRESS.		

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study Public Information Centre No. 1, June 2, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	Tom Money			
	DAVID KENTNER	HALTON HILLS		COUNCILOR WARD 3
	NATASHA ROENIC	HALTON HILLS		
	DAVID McLEAN			
	CLARIE SOMERVILLE	40 HALTON HILLS		COUNCILOR
	Julie Lamberts	CVC,		Credit Valley CA
	FRANK Cobbett			
	Mark Anshay			
	Bryan DeBoyce			
	V Hendricksa			

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SIGN-IN SHEET



Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 1, June 2, 2010

PLEASE PRINT:

#	Name and Affiliation	Address and Postal Code	Phone #	Email
	JOAN CRUISE			
	David Monroe			
	Don Burt			
	DEREK REMES			
	FRANCIS NIBLOCK	THE NEW TANNER		
	Carol Englert			
	Moya Johnson			
	Don MATTHEWS			
	G. Rok			
	Peter Campbell Distribution Ins SVS			

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PUBLIC INFORMATION CENTRE #1

COMMENTS

Mary Kelly
10600 Eighth Line
RR #2
Georgetown, Ontario
L7G 4S5

June 7, 2010

The Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

Attention: David Simpson

HALTON REGIONAL
MUNICIPALITY
PLANNING DEPARTMENT
JUN 10 2010

With respect to the meeting of June 2 2010 below are my comments. Please make sure they become part of the public record.

For over a year I have been waiting for a copy of the report outlining the results of the study to evaluate the potential capacity of an aquifer located south of 15th Side Road between Trafalgar Road and the Eighth Line. This study area is owned by developers and I was suspect of who requested the study and why. It is a known fact that Georgetown's new building permits were halted due to a shortage of water. Is there pressure on the Town from the developers to find water there for their development plans? I was suspect too because the testing was done in May of 2009 when water was plentiful. In my opinion it doesn't make good sense to test then and only once. I would think that one should test every 3 months to get a better understanding of the yield over the course of a year. And why has it taken over a year to produce the results of the study?

At the meeting of June 2, 2010 two statements were posted as to the results of the testing, "MSM CBV East of Trafalgar Road between 10th & 15th Sideroad – *Predicted to provide long term, sustainable yield up to 690 cubic meters per day (8L/S) and – Pumping is not expected to cause adverse impacts to private wells or ecologically sensitive features in the area.*" For those who don't understand yield rates, the words "long term, sustainable" lead one to believe that there is lots of water when in fact the yield is minimal. I find the statement misleading. The word minimal should have been stated. And why should our taxes go toward the high costs of developing a well with a minimum yield? As far as the second statement goes, I don't believe enough testing has been done to make that statement. Furthermore, it is ironic that driving to the meeting there were water conservation signs positioned strategically to inform the residents of Georgetown to be careful with their water usage. Hornby was a disaster. We don't want that in Georgetown.

Thank you,



Campbell, Chris

From: Douglas S. McGill [mcgill_dev_services@rogers.com]
Sent: Wednesday, June 16, 2010 7:55 PM
To: Campbell, Chris
Subject: PIC # 1 Sustainable Halton W & WW Master Plan - Comments
Attachments: Letter re PIC # 1 - June 16 2010.pdf

Hello Chris comments are contained in the attached pdf file. See you at PIC # 2 if not before.

Thanks

Douglas S. McGill
President
McGill Development Services



Cell: 1-905-442-4357

E-mail mcgill_dev_services@Rogers.com

McGill Development Services, Ltd.



June 16, 2010
File: Argo Milton

Mr. David Simpson
Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Road.
Oakville, Ontario
L6M 3L1

Dear: Mr. Simpson

Reference: Sustainable Halton Water & Wastewater Master Plan, PIC #1

We are submitting this response to the Region of Halton on behalf of our client Argo Developments Corporation, who owns three properties within the Town of Milton. The future Regional servicing infrastructure for these lands is being addressed by this study.

We attended the Public Information Centre of May 31, 2010 at the Town of Oakville, spoke with Regional Staff at the open house and have completed a review of the information provided at the information centre.

All three holdings have been included within the Sustainable Preferred Land Use Plan (ROPA 38) which is currently awaiting Provincial Consent. As two of the holdings (between 3rd Line and 5th Line) are located in the vicinity of the Boyne Survey Secondary Plan (Town of Milton Official Plan Amendment No. 30, which was approved by Town Council on June 14, 2010) we are anticipating they are likely to be part of the next Secondary Plan Area in the Town of Milton. The third property is employment lands and fronts on 6th Line.

Accordingly, we recommend Halton Region review existing infrastructure to maximize use and future water & wastewater infrastructure alignment, sizing and timing of delivery to ensure efficient, timely and cost effective delivery of water and wastewater infrastructure to service the Sustainable Halton lands.

We thank Halton Region for providing us this opportunity for input into the Study and look forward to participating future PIC's.

McGill Development Services, Ltd.

June 16, 2010
Page 2 of 2

Reference: Sustainable Halton Water & Wastewater Master Plan, PIC #1

Sincerely,

A handwritten signature in black ink, appearing to be 'DM', written in a cursive style.

Doug McGill, C.E.T.
President
Tel: (905) 442-4357
mcgill_dev_services@rogers.com

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Thursday, June 17, 2010 3:45 PM
To: Campbell, Chris; Hamel, Chris; Duong, John
Cc: Kung, Katherine
Subject: FW: Sustainable Halton - Master Water &Wastewater Plan
Attachments: 20100617144042.pdf

Chris,

More PIC feedback on servicing strategies for the MP consultation section.

Thanks,

David

From: Paul Brown [mailto:PBrown@mte85.com]
Sent: Thursday, June 17, 2010 2:45 PM
To: Simpson, David
Subject: Sustainable Halton - Master Water &Wastewater Plan

David,

Please find enclosed our comments related to the information provided by the Region through the first PIC.

Regards... Paul

Paul Brown, C.E.T., Director, Land Development
MTE Consultants Inc.
3115 Harvester Road, Suite 200, Burlington, Ontario L7N 3N8
Telephone: (905) 639-2552 Facsimile: (905) 639-7727
<http://www.mte85.com> <mailto:pbrown@mte85.com>

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June 17, 2010
MTE File: 10478-100

Mr. David Simpson
Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Road.
Oakville, Ontario
L6M 3L1

Re: Sustainable Halton Water & Wastewater Master Plan, PIC #1

Dear Mr. Simpson:

We are pleased to submit this response to the Region of Halton on behalf of our client Orianna Glen Home Corp., who own lands located South of Britannia Road between Fourth line and Fifth Line, in The Town of Milton. The water and wastewater servicing for these lands is being addressed in the Sustainable Halton Water & Wastewater Master Plan Update Study.

We attended the Public Information Centre hosted by the Region on May 31, 2010 in the Town of Oakville, spoke with Regional Staff at the open house and have completed a preliminary review of the information provided at the information Centre.

The noted lands have been incorporated as Proposed Residential and Mixed Use Area within the Sustainable Preferred land Use Plan (ROPA 38) which is currently awaiting Provincial Consent. Lands located immediately North, Boyne Survey Secondary Plan – Town of Milton Official Plan Amendment No. 30, was approved by Town Council on June 14, 2010.

As the noted lands are incorporated in the Preferred Land Use Plan and are immediately coincident to the existing boundary, it is our opinion that the subject lands should be part of the next Secondary Plan Area in the Town of Milton.

To this extent, we recommend Halton Region review existing infrastructure to maximize use and refine future water & wastewater infrastructure alignment, sizing and timing of delivery to ensure efficient, timely and cost effective delivery of water and wastewater infrastructure to service the future lands.



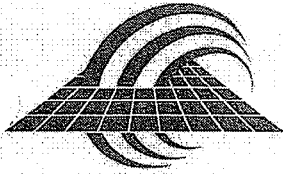
We thank Halton Region for providing us this opportunity for input into the Study and look forward to participating in future PIC's.

Yours Truly,

MTE CONSULTANTS INC.

A handwritten signature in black ink, appearing to be 'Raul Brown', written over a horizontal line.

Raul Brown, C.E.T.,
Director, Land Development



June 29, 2010

Region of Halton
1151 Bronte Road
Oakville ON L6M 3L1

Attention: Mr. David Simpson, Senior Project Manager

Dear Sir:

**Re Sustainable Halton Water and Wastewater Master Plan
Regional Municipality of Halton
Our Project No. 06003**

Geomorphic Solutions
Nexgen Utilities
Sernas Associates
Sernas Transtech
SRM Associates

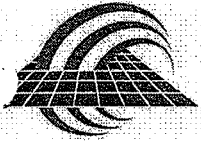
We are writing on behalf of the Southwest Georgetown Landowners Group (SWGLOG) who collectively own approximately 405 hectares (1000 acres) of the lands in the Region's identified expansion area bounded by Trafalgar Road, 15th Sideroad, Main Street/8th Line and 10th Sideroad. We attended the recently held PIC for the Sustainable Halton Water and Waste Water Servicing Plan and have reviewed in detail the on-line posted materials. This information has been presented to and discussed with our clients.

We would like to compliment the Regional staff and AECOM on the extent and insightfulness of the work done to date, and would like to offer the following comments on the information presented at the PIC.

General Comments

We support the water and wastewater servicing concepts evaluation criteria presented, however it is not always clear that the analysis of alternatives follows the evaluation criteria presented. We feel that two of the most important evaluation criteria are the financial impact and phasing impact. These very important elements are not explicit in the evaluation of alternatives and should be provided in order to fully comment on the alternatives presented for all water and wastewater concepts.

As the study progresses it is also important that the appropriate amount of infrastructure is matched with a critical mass of development to ensure that works can be appropriately financed. Temporary servicing options may be required in order to permit the release of development to provide financing for longer term infrastructure projects.



Region of Halton
Mr. David Simpson, Senior Project Manager
June 29, 2010
Page 2

There are water and wastewater servicing concepts that contemplate the diversion of flows from existing areas of Halton Hills and Milton to a lake based system. To the extent that these diversions are not development related, their costs should be calculated separately from the costs to service the new growth areas so that funding sources can be appropriately determined.

With respect to the Best Planning Estimates assumptions, it is our understanding that the Region will be releasing this information in the fall of 2010. We request that BPE assumptions be released as soon as possible, as this information is critical in determining the key infrastructure that is required to accommodate future growth.

The SWGLOG acknowledges that growth must pay for itself and that prior to growth proceeding in Georgetown, a new Regional DC and Region Council approved financing plan must be in place. It is within this context that the SWGLOG would participate with the purpose of assisting in the finance and the construction of servicing of Georgetown. In addition, we may be willing to explore options for service delivery as a means of advancing servicing to Georgetown as more details on the Master Servicing Plan become available.

Georgetown Water Servicing Concepts

We support the favoured concept W5A "Connect to the Lake based system in South Halton". We believe the security of supply offered by lake based servicing is desirable both in providing certainty of timing for future development and a backup system for servicing of existing development. Further, it is our opinion that the Region should pursue a lake based option with consideration of connections to both the Halton and Peel systems. The Halton connection would likely form the primary source of supply with the Peel connection serving as a backup system and possibly a temporary supply point for a first phase of development on lake based water.

Given the difficulties the Region has had in the past securing additional water capacity from ground water sources, we believe it would be imprudent for the Region to rely solely on the ability of ground water sources to provide for all development to 2021 and all development intensification to 2031. We would encourage the Region instead to develop a flexible and responsive plan that advances both groundwater and lake based initiatives concurrently. In this way should the groundwater options be unviable, the Region could switch and move forward with the preferred lake based option thereby avoiding a significant period of severely constrained development as has been the case in Georgetown for the last 6 years.



Region of Halton
Mr. David Simpson, Senior Project Manager
June 29, 2010
Page 3

Georgetown Wastewater Servicing Concepts

We are supportive of the favoured concept WW3B "Trunk Sewer Diversion – Send flows to the South Halton WW System". We also see the merit in the Region fully exploring the options for expanding the Georgetown WWTP; reducing inflow and infiltration to the existing system; and sending flows to the Peel lake based system.

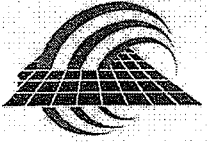
We do have a concern with the South Lake Wastewater Servicing Concepts. Three of the four currently favoured concepts would take the gravity flows from Georgetown southward from the 401 down Trafalgar Road through the Milton East expansion area. While this may be an acceptable ultimate servicing solution, this would result in the Georgetown expansion area being dependent on development in the Milton East expansion area. Given the relatively large supply of development land in Milton and the restricted supply in Georgetown, this would likely result in a delay in the development of the Georgetown expansion area and again leave Georgetown with little residential land available for development. We would recommend that further work be done to consider possible interim solutions that would allow the Georgetown expansion area to develop without the immediate construction of the trunk south of highway 401.

We find it surprising that Option 2B, connecting through the Business Park 2 area, has received an unfavourable rating. We would ask that the Region revisit their evaluation of this option, especially with consideration that it could provide an interim route for flows in advance of a sewer along the Trafalgar Road alignment.

If it has not been done already, we would suggest consideration be given to locating the proposed wastewater trunk sewer from Georgetown on Eighth Line as the lands of the southwest Georgetown expansion area generally drain from west to east.

Timing of Development in Georgetown

We request that as part of the master plan process, that options be identified to provide servicing to the growth areas of Georgetown as soon as possible and in any event prior to 2021. These options could include expansion of the existing well and wastewater treatment systems, connections to the Peel system, or other ultimate or interim servicing solutions.



Region of Halton
Mr. David Simpson, Senior Project Manager
June 29, 2010
Page 4

If you have any questions with respect to our comments, please contact the undersigned.

Yours truly,

THE SERNAS GROUP INC.

Gordon W. Patterson, P.Eng.
Principal

GWP/br

cc: Southwest Georgetown Landowners Group
Delta Urban Inc., Attn: Mr. Peter Campbell
Walker Nott, Dragicevic Associates Ltd., Attn: Mr. Robert Dragicevic
Loopstra Nixon McLeish, Attn: Mr. Quinto Annibale

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Monday, June 28, 2010 9:50 AM
To: fisherodjig@sympatico.ca
Cc: Carr, Gary; Moyle, Pat; Mclsaac, Kristen; Nosal, Dr. Bob; Oka, Kiyoshi; Devine, Gord; Campbell, Chris
Subject: RE: Water quality

Hi Darla,

Further to our telephone conversation on June 18, 2010, I promised to follow up with information pertaining to your inquire regarding water quality and quantity at Fairy Lake as it relates to potential contamination of the aquifer which supplies the Prospect Park Well Field municipal water supply.

As part of our overall water servicing strategy for Acton, expansion of the Prospect Park Well Field is being considered. Numerous studies have been carried out at this Well Field, including recent hydrogeological investigations (2009 and 2010) to assess for any potential impact to local ecology (Fairy Lake and associated wetlands) and/or private wells at the higher water taking rates. These findings will be summarized in an Impact Assessment Report as part of the Sustainable Halton Water and Wastewater Master Plan which follows the Municipal Class Environmental Assessment process. This information will be available for public review upon filing the Notice of Completion for the Master Plan anticipated by Spring, 2011.

Preliminary findings suggest that any potential contamination in Fairy Lake does not infiltrate the aquifer which supplies the Prospect Park Well Field. This is further supported by the results of water quality testing (including E. coli) which is regularly performed at this Well Field in accordance with the *Safe Drinking Water Act, 2002*. Specifically, raw and treated water quality are tested, at minimum, weekly for E. coli as per the sampling program. Sampling is also conducted in the distribution system primarily for bacteriological indicators and evidence of sustained chlorine residuals. The Region has not had any treated water quality issues with E. coli contamination from water supplied by the Prospect Park Well Field groundwater system. Regular information about the water delivered to our customers is provided through our Water Quality Reports posted at: <http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=14097>.

A multi-barrier approach is taken to ensure "barriers" are in place from the "source to the tap" to either eliminate threats to drinking water quality or minimize their impact. Halton Region continues to support the production of quality drinking water through increased sampling for groundwater monitoring, the implementation of the aquifer management plan including capture zone and groundwater vulnerability assessments, upgrades to online monitoring and infrastructure management systems and optimization of water treatment processes.

Darla, again thank you for your concern and interest regarding the Region's water supply. If you have any other concerns or comments, feel free to contact me at anytime.

Regards,

David

David Simpson, B.Sc., B.Eng., E.I.T.
Acting Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



Please consider the environment before printing this e-mail

From: Carr, Gary
Sent: Thursday, June 10, 2010 5:16 PM
To: Fisher-Nadeau
Cc: McIsaac, Kristen; Nosal, Dr. Bob
Subject: RE: Water quality

Hi Darla

Thanks for your email. I appreciate you taking the time to email me.

I will have our Medical Officer of Health reply to you directly.

I will also send you any information I think will be of interest to you.

Regards

Gary

From: Fisher-Nadeau [mailto:fisherodjig@sympatico.ca]
Sent: Thursday, June 10, 2010 4:24 PM
To: Carr, Gary
Subject: Water quality

Mr. Carr, I am concerned about our water quality and the quality of Fairy Lake, as it is also a huge part of life in Acton. My question is directed to the well field in Prospect Park mentioned in the New Tanner Thursday June 10, 2010. The article is on Pge 4 and concerns water sustainability for Halton. Could you tell me when this well is tested and if this area in Prospect park is considered a viable water source, will not Fairy Lake pose to be a problem if its E.coli level at times infiltrate the well field. I am concerned as to the health and welfare of not only myself and my children and grandchildren but also the green plan as in our environment. Are we missing something regarding sustaining our health and the health of our townspeople, I am truly concerned about our water more so than how many cabs we have here in Acton.

Darla Fisher-Odjig (Nadeau)
Canadian Native Fine Artist/Poet
Professional Art Therapist, D.T.A.T.I.
519-853-3092

This is my official site for the book "My Healing Journey" A Walk In Two Worlds.
www.darlafisher-Odjig.com

<http://fisherodjigstudio.spaces.live.com/>

Darla Fisher-Odjig (Nadeau) . First Nations . Fine Artist/Poet . Professional Art Therapist

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Thursday, November 18, 2010 6:10 PM
To: Rev. Jean Leckie
Cc: McKinnon, Steve; Campbell, Chris; Pawlus, Jacek
Subject: RE: Big piipe

Hi Rev. Leckie,

Thank you for your interest and comments on the Sustainable Halton Master Plan.

You pose a very interesting question. As a water purveyor, we are governed in Ontario by both the Ministry of Environment and the Ministry of Natural Resources. We are required to obtain permits to take water and are limited to the amount of water we are allowed to take from any one particular source. In fact any person, institution or company must apply for a permit to take water if they require more than 50,000 Litres in a year. This allows the Ministry to monitor who and in what quantity water is being taken from the ground, lakes, river and streams. The Ministry of Natural Resources monitor and to a certain degree control the water levels throughout the Province. They do not allow the transfer of water outside any one particular watershed and have There are a few exceptions, such as commercial bottling companies. Halton Region lies within the Lake Ontario watershed, therefore water is allowed to be delivered from one community to another. However, for example, we would not be allowed to transfer water to the City of Barrie into the Lake Simcoe watershed.

What I find interesting about your question is the balancing of water taking and the putting back. Water that is taken by a water purveyor such as Halton Region is nearly all put back to the same water shed from which it was taken. For example, last year Halton delivered nearly 64 million litres of drinking water to residents, with most or all of it being returned to our wastewater plants which in turn treated nearly 79 million litres. The discrepancy lies in the fact we collect more than waste water from residents, we also inadvertently collect water from infiltration and older homes that still have down spouts connected to our system. We are implementing corrective measures to correct this though.

Again there is always a caveat. In the early 1900's the City of Chicago started to found their own water in and around the city was being polluted by inefficient treatment of wastewater. Their solution: reverse the flow of the Chicago river to deliver their waste to the Mississippi River. Much to the chagrin of their neighbours down stream. What followed over the course of the next several years was a steady decline in both Lake Michigan and Lake Huron water levels. Public outcry from neighbouring States and Provinces forced Chicago to dramatically curtail the flow out of the lake. There is today a move to put the river back to its original state and once again flow back into Lake Michigan. Wastewater treatment has advanced to degree which the effluent is of suitable quality that diversion is no longer required. The International Joint Committee on the Great Lakes have now banned any new diversion of water from the Great Lakes. Over the last several years there have been a few applications to divert water away from the lakes but all have been denied, both in Canada and the United States. Sadly this is not the case everywhere in Canada and the world though organisations are trying to stop it.

It has been noted that the amount of water lost in Ontario due to human activity is minimal compared to the amount lost to evaporation and natural causes. It is interesting to note that there are cyclical and long term variations in water levels. For instance, Lake Ontario and generally all the Great Lakes reach a low every thirty years with an extreme low every 150 years. This may seem why at times the Great Lakes are low for no apparent reason. As yet, no reason has been found. Only one per cent of the water in the Great Lakes is replenished from natural causes, truly a balancing act. If we are not careful, human activity may have a significant impact on water levels in the future. Provincial and State Governments recognize this and are moving to even stronger protective measures.

I trust I have been of help in answering your question. I would recommend you visit the following websites or in fact pick up the phone and contact them directly for further information. They all are there to provide information and of course wish to hear from concerned residents. It all starts with us.

www.ene.gov.on.ca
www.mnr.gov.on.ca
www.ijc.org

Regards,

David

David Simpson, B.Sc., B.Eng., E.I.T.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



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Thank you

David

From: Rev. Jean Leckie [mailto:gracejl@bellnet.ca]
Sent: Thursday, November 04, 2010 6:13 PM
To: Simpson, David
Subject: Big piipe

Dear Mr. Simpson

I am a resident of Georgetown and have been reminded lately that we are moving steadily closer to the time when another community (Halton Hills) will begin to draw its water supply from Lake Ontario. At a public information meeting on development several months ago, I asked, "Do we know whether we (i.e. all the communities in Canada and the US that draw water from the system) are currently taking out of the Great Lakes more water than is being naturally replenished each year?" No one could answer my question. Can you?

Jean Leckie
130 Prince Charles Drive
Georgetown ON
L7G 3V6

gracejl@bellnet.ca

Campbell, Chris

From: Jason Sheldon [jsheldon@remingtongroupinc.com]
Sent: Monday, May 17, 2010 9:17 AM
To: Campbell, Chris
Subject: Notice of Study Commencement - Sustainable Halton
Attachments: 4963_001.pdf

Good morning Chris – please add me to your distribution list.

Regards,
Jason

Jason Sheldon, MCIP, RPP
Vice President
Land Development
The Remington Group Inc.

p. 905-761-8200, x259
f. 905-761-2137
c. 647-262-8960
e jsheldon@remingtongroupinc.com

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Wastewater Planning
Wastewater Services, Public Works
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-8822

**PR – 2500/2501: Sustainable Halton Water and Wastewater Master
Plan (SHWWWMP)
Meeting Log**

FROM: Kenneth Ing
Canwood Fashion Group Inc. (5284 Fifth Line, Milton, L9T 2X8)
Phone Number: 416-603-3928 (o); 416-402-0913 (c)
Email: kennething@hotmail.com

CONTACTED: David Simpson/Mickey Liu
Halton Region

DATE/TIME: Meeting with Mickey Liu at 11 AM, May 20, 2010

RE: Local Water Servicing under the SHWWWMP

Comments / Inquiry:

Mr. Ing currently owns a property at 5284 Fifth Line, Milton and his property is on the private well supply and septic system. He suspects that the well system is probably contaminated by the bacteria in the stormwater runoff. He inquired whether and when his property can be serviced by the municipal water system according to the ongoing mater plan process. According to the consultation with his neighbours, Mr. Ing indicated that about 40 residents are willing to receive and share the cost of municipal water services in the vicinity area.

Mickey referred him to David Simpson, who is in charge of the Water Servicing under the SHWWWMP.

Follow up Action / Date:

David Simpson met with Mr. Ing on May 26 at the Milton PIC and confirmed that his property will be part of the new 2031 Milton urban boundary. As such, his property will be provided with servicing within this timeframe, however, the exact timing of servicing has not been determined at this stage of the Master Plan. The infrastructure staging plan will be prepared and developed near the end of 2010, with preliminary findings released at the proposed November, 2010 PIC.

The Regional Municipality of Halton

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Thursday, June 03, 2010 2:05 PM
To: Douglas S. McGill
Cc: Hamel, Chris; Campbell, Chris; Duong, John
Subject: RE: Info from Recent PIC on Master Servicing Plan update

Doug,

The Master Plan PIC presentation is now live on the Halton website.

Thanks,

David

David Simpson, B.Sc., B.Eng., E.I.T.
Acting Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
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Website: www.halton.ca



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Thank you

From: Douglas S. McGill [mailto:mcgill_dev_services@rogers.com]
Sent: Wednesday, June 02, 2010 2:20 PM
To: Simpson, David
Cc: chris.hamel@aecom.com
Subject: Info from Recent PIC on Master Servicing Plan update

I attended the PIC in Oakville but am unable to locate the boards on the Regions website. Are they available yet?

anks

Douglas S. McGill

President

McGill Development Services



Call: 1-905-442-4357

E-mail mcgill_dev_services@Rogers.com

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Thank you

Campbell, Chris

From: Hamel, Chris
Sent: Thursday, June 03, 2010 2:50 PM
To: Campbell, Chris
Subject: FW: Notice of Study, Water & Wastewater Master Plan

Chris Hamel, P.Eng.
Community Infrastructure Market Leader

e: chris.hamel@aecom.com
d: 905.747.7562

AECOM
105 Commerce Valley Drive West, Suite 700, Markham, ON L3T 7W3
t: 905.886.7022 f: 905.886.9494 w: www.aecom.com

From: Ruth Thoem [<mailto:rthoem@redbourne.ca>]
Sent: June 3, 2010 10:31 AM
To: david.simpson@halton.ca; Hamel, Chris
Subject: Notice of Study, Water & Wastewater Master Plan

We recently received a forwarded notice of Study Commencement and Public Information Centre #1 for the Water & Wastewater Master Plan.

Please correct your mailing list from:

RReimer
Reimer construction
55 North Service Road 9th Floor
Burlington, L7L 6W6

To

Redbourne Realty Advisors Inc.
5500 North Service Road
Suite 306
Burlington, ON L7L 6W6

Thanks!

Ruth Thoem
Property Manager



Redbourne Realty Advisors Inc.
5500 North Service Road, Suite 306
Burlington, ON L7L 6W6
905 336-9533 Phone
905 336-9594 Fax

Campbell, Chris

From: Hamel, Chris
Sent: Friday, June 04, 2010 11:44 AM
To: Campbell, Chris
Subject: RE: Acton PIC

I also wrote on the back of Burlington sign in sheet. one resident wanted a hard copy mailed to him.

From: Campbell, Chris
Sent: Fri 6/4/2010 11:40 AM
To: Simpson, David
Cc: Kung, Katherine; Hamel, Chris
Subject: Acton PIC

Hi David

We will be preparing a summary report following the PIC's which will include comments received etc. However there was one request that maybe Katherine could help with in the short term from Clark Somerville – Regional Councilor Wards 1 & 2 – he requested a copy of the boards be placed in his bundle.

Thanks

Chris

Chris Campbell MTP, MCIP, RPP, MRTPI
Senior Project Manager - Water
E: chris.campbell@aecom.com

AECOM

105 Commerce Valley Drive, Markham, ON L3T 7W3

t: 905.747.7533 f: 905.886.9494 w: www.aecom.com

Please note that my address and contact numbers have changed. My email remains chris.campbell@aecom.com. Please update your address books accordingly.

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Friday, June 04, 2010 3:23 PM
To: John Taglieri
Cc: Campbell, Chris
Subject: RE: Water and Wastewater Open House

Hi John,

The PIC presentation boards are now live on the Halton website www.halton.ca

Just look under environmental assessments for the sustainable halton water and wastewater servicing master plan.

Thanks,

David

David Simpson, B.Sc., B.Eng., E.I.T.
Acting Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
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Fax: 905-825-8822
Website: www.halton.ca



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Thank you

From: John Taglieri [mailto:john@lormelhomes.com]
Sent: Friday, June 04, 2010 2:39 PM
To: Simpson, David
Subject: Water and Wastewater Open House

Hello David. I left you a voice mail message a few moments ago as well.

I attended the open house at the Acton Community Centre the other night and was told by one of your Staff that pdf slides of the display boards would be on the Region's website. I've tried looking for them and haven't had any luck.

I was wondering if you could point me in the right direction - maybe send me a link or if possible, send me a pdf of the display boards.

Thanks in advance.

John Taglieri, MCIP, RPP
Planner



30 Pennsylvania Ave., Unit 16
Concord, ON L4K 4A5

P - 905-669-2023
F - 905-669-1925
www.LormelHomes.com

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Thank you

Campbell, Chris

From: Clark A. Somerville [somerville01@bell.net]
Sent: Monday, June 07, 2010 9:33 PM
To: 'Simpson, David'
Cc: 'Oka, Kiyoshi'; Campbell, Chris; Hamel, Chris; 'Duong, John'; 'Bielawski, Magda'; 'Liu, Mickey'; 'Goorts, Kelly'; 'Kung, Katherine'
Subject: RE: Acton Water and Wastewater Servicing Concepts - Sustainable Halton Master Plan

I had asked for the whole presentation to be printed and placed in my mail box.

Thanks

Clark

From: Simpson, David [mailto:David.Simpson@halton.ca]
Sent: June 7, 2010 7:17 PM
To: Somerville, Clark
Cc: Oka, Kiyoshi; Campbell, Chris; chris.hamel@aecom.com; Duong, John; Bielawski, Magda; Liu, Mickey; Goorts, Kelly; Kung, Katherine
Subject: Acton Water and Wastewater Servicing Concepts - Sustainable Halton Master Plan

Councillor Somerville,

It was a pleasure meeting you at Sustainable Halton Water and Wastewater Master Plan in Acton. I understand you would like to obtain copies of the water and wastewater servicing concepts for Acton. I have attached the Acton water and wastewater servicing PIC boards for considerations.

<<Acton Water Servicing Concepts.pdf>> <<Acton Wastewater Servicing Concepts.pdf>>

This information and other additional information related to the study and consultation process may be obtained through the study website:

<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=37516>

We will also forward a hard copy for your information. Please let us know if you would like to discuss any of the servicing concepts in more detail or have any questions on the overall Master Planning process.

Thanks,

David

David Simpson, B.Sc., B.Eng., E.I.T.
Acting Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
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Thank you

Campbell, Chris

From: Dale Downey [daledowney@rogers.blackberry.net]
Sent: Tuesday, June 08, 2010 7:30 PM
To: Simpson, David
Cc: Duong, John; Campbell, Chris
Subject: Re: PIC feedback

Thank you David. Much appreciated.

Sent from my BlackBerry device on the Rogers Wireless Network

From: "Simpson, David" <David.Simpson@halton.ca>
Date: Tue, 8 Jun 2010 19:25:29 -0400
To: <ddowney@sernas.com>
Cc: Duong, John<John.Duong@halton.ca>; Campbell, Chris<Chris.Campbell@aecom.com>
Subject: PIC feedback

Hi Dale,

Further to our discussion this morning, it is acceptable for you to submit your PIC feedback on the proposed water and wastewater servicing options past the June 16 cut-off. If you could get us your feedback and comments by the June of) month, we will do our best to consider your comments in the development of the strategies.

Thanks for your interest and participation in our Master Plan.

Regards,

David

David Simpson, B.Sc., B.Eng., E.I.T.
Acting Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
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Campbell, Chris

From: Diana Beaulne [Diana.Beaulne@enbridge.com]
Sent: Tuesday, June 08, 2010 3:20 PM
To: Campbell, Chris
Subject: Sustainable Halton Water and Wastewater Master Plan EGD- 80081

Thank you for your letter informing us of your future planned work. Enbridge has buried plant in some locations throughout your planned work area. Currently the scope of your project is too general to determine if a conflict exists. During the engineering design of your project please send us copies of your plans per normal procedure so we may review.

Kind Regards,

Diana Beaulne
Right of Way Approval Technician
Enbridge Gas Distribution Inc.
Distribution Planning 4th Floor
500 Consumers Rd
North York, ON.
M2J 1P8

rkups@enbridge.com

Tel: 416-495-5160
FAx: 416-758-4373

Attached, you will find your completed Enbridge Markup for the project noted above.
Regards,

Diana Beaulne
Right of Way Approval Technician
Enbridge Gas Distribution Inc.
500 Consumers Rd
4th, Floor, Post A2, VPC
North York, Ontario
M2J 1P8

Tel: 416-495-5160
FAx: 416-758-4373

markups@enbridge.com

PUBLIC INFORMATION CENTRE #1

QUESTIONNAIRES & REPLY FORMS



COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 1

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **June 14, 2010**:

Mr. David Simpson
Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3E1

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive
Markham, Ontario L3T 7W3

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

The option 3c does not consider a Georgetown
only feed along Bowert (Hwy 7) fed
from the new storage works on
Mississauga Rd - why?

Do Halton and Peel have agreements
to reciprocate - (eg Brampton
Bypass 401/407 to Mayfield Rd
that could be the catalyst for
a water agreement.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

NOTE: Comments and information regarding this study are being collected to assist Halton Region in meeting the requirements of the *Environmental Assessment Act*. This material will be maintained on file for use during the study and may be included in project documentation. Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Acton	
Time of Meeting	8:00	
Day of the Week	Wed	

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very 1 2 3 4 5
Somewhat Not at all

b) How helpful were the staff and consultants in attendance?

Very 1 2 3 4 5
Somewhat Not at all

Were all your questions answered satisfactorily?

Yes

No

Waiting to find out

Other Comments:

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COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

Public Information Centre No. 1

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **June 14, 2010**:

Mr. David Simpson
Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive
Markham, Ontario L3T 7W3

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

I WAS DISAPPOINTED THAT THERE WAS NOT
A FORMAL PRESENTATION / MEETING.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL COD: _____

PHONE: _____

NOTE: Comments and information regarding this study are being collected to assist Halton Region in meeting the requirements of the *Environmental Assessment Act*. This material will be maintained on file for use during the study and may be included in project documentation. Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

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Notice in mail

Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very 1 2 Somewhat 3 4 Not at all 5

b) How helpful were the staff and consultants in attendance?

Very 1 2 Somewhat 3 4 Not at all 5

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

THE STATEMENTS PRESENTED ON BOARDS
 RE LINDSAY COURT WELL WAS THE SAME
 POSITION TAKEN BY REGION / GARDNER-LEE
 TWO YEARS AGO. - IT'S AS IF NOTHING
 HAS BEEN LEARNED IN THE INTERVAL

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

- Newspaper ad Notice in mail Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very Somewhat Not at all
 (1) 2 3 4 5

b) How helpful were the staff and consultants in attendance?

Very Somewhat Not at all
 (7) 2 3 4 5

Were all your questions answered satisfactorily?

- Yes No

Other Comments:

→ legends on some maps confusing or in acronyms
 otherwise well presented and I look forward
 to seeing recommendations

→ would like to see consideration of water
 conservation practices and water re-use
 to minimize need for expansion and new
 infrastructure.



COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 1

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **June 14, 2010**:

Mr. David Simpson
Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive
Markham, Ontario L3T 7W3

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

Thank you for answering my questions in a clear manner.

It will be important to explain such things as clearly to the general public (who don't typically attend those PIC events) especially relating to Milton ground source to lake source water.

Tatensification is going to be challenging in itself for residents, but then imposing a water source change may not be appreciated.

I was involved in the early "issue" re old Milton getting mixed lake water. We wanted to keep & valued the quality of our ground water. My feeling is that regardless of the wonderful filtering capabilities in use, ~~there~~ some carcinogenic chemicals (e.g. Love Canal effluent) could still make its way up the pipe.

Of course, one might argue that ground water may not be perfect either

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

NOTE: Comments and information regarding this study are being collected to assist Halton Region in meeting the requirements of the *Environmental Assessment Act*. This material will be maintained on file for use during the study and may be included in project documentation. Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Thursday, June 03, 2010 2:06 PM
To: Campbell, Chris
Subject: FW:
Attachments: DOC060310-002.pdf

From: Ron Baldesarra [mailto:rbaldesarra@randengineering.ca]
Sent: Thursday, June 03, 2010 10:43 AM
To: Simpson, David; chris.hamel@aecom.com
Subject:

Please see the attached comment sheets from the Public Information Centre held on June 2nd, 2010.

G. Ron Baldesarra, P. Eng.
President

Randvest Inc.
85 Solar Drive
Mississauga, Ontario
L4W 5B8
Phone. 905.625.9500 Ext. 224
Fax. 905-625-8331
Email Address: rbaldesarra@randengineering.ca
Website Address: www.randengineering.ca

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you



COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

Public Information Centre No. 1

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by June 14, 2010:

Mr. David Simpson
Water Planning, Water Resources, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

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AECOM
105 Commerce Valley Drive
Markham, Ontario L3T 7W3

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

I am a property owner at the south-west
of Trafalgar Road and ^{Lower Base Line} ~~Highway~~ 407. (90 acres)
and north of the 407.

As you are no doubt aware north Oakville
is proceeding and will likely commence
infrastructure construction prior to completion
of your study. My concern is that
works will be constructed without
regard to external areas such as
my lands. This may result in a
more expensive servicing solution and
time delay.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List

NAME: _____

ADDRESS: _____

POSTAL COD _____

PHONE: _____

NOTE: Comments and information regarding this study are being collected to assist Halton Region in meeting the requirements of the *Environmental Assessment Act*. This material will be maintained on file for use during the study and may be included in project documentation. Information will be collected in accordance with the *Municipal Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments will become part of the public record.

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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Newspaper ad

Notice in mail

Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	
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On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very (1) 2 Somewhat (3) 4 Not at all (5)

b) How helpful were the staff and consultants in attendance?

Very (1) 2 Somewhat (3) 4 Not at all (5)

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

Very informative material however how is one expected to really understand everything that is going on? no wonder more people don't show up. I find it amazing that a year and a half ago when I inquired about a building permit I was told "all new building is on hold..." "We don't have enough water and now void we have "Found" water to support expansion to 2021.

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: Renee Brown

TITLE: Council and Committee Services Coordinator (TEAC)

AGENCY: Town of Halton Hills

ADDRESS: 1 Halton Hills Drive, Halton Hills

PHONE: 905-873-2601 ext 2333

FAX: 905-873-1431

E-MAIL: ReneeB@haltonhills.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

X

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: JEFF BOOKER

TITLE: MANAGER, HIGHWAY ENGINEERING SERVICES

AGENCY: 407 ETR

ADDRESS: 6300 STEELES AVE. WEST WOODBRIDGE ON, L4H 1J1

PHONE: 905-264-4070 Ext. 5485

FAX: 905-264-5300

E-MAIL: jbooker@407etr.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

RECEIVED
MAY 25 2010
AECOM CANADA LTD.

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Mr. Don Boswell
TITLE: Sr. Claims Analyst
AGENCY: INAC - Specific Claims Branch
ADDRESS: 10 Wellington St. GATINEAU Qc. K1A 0H4
PHONE: 819-953-1940
FAX: 819-997-9873
E-MAIL: Don.Boswell@ainc-inac.gc.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Claim Areas.

(Signature)
D. Boswell
MAY 20, 2010

X

REPLY FORM

Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME:

Diane Bloomfield

TITLE:

Project Manager

AGENCY:

Halton-Hamilton Source Protection Region

ADDRESS:

4052 Milburough Line, RR#2 Campbellville
LOP1B0

PHONE:

905-854-9229 x223

FAX:

905-854-9220

E-MAIL:

dbloomfield@hrca.on.ca

Please indicate the appropriate response:

My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Our comments will be provided
through Conservation Halton.

X

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: MYRON PESTALUKY

TITLE: PRESIDENT

AGENCY: DELTA URBAN INC.

ADDRESS: 7501 Keele Street, Suite 505, Vaughan, ON L4K1Y2

PHONE: 905-660-7667

FAX: 905-660-7076

E-MAIL: taniag@deltaurban.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Campbell, Chris

From: Mark and Christine [mlacombe1@cogeco.ca]
Sent: Tuesday, June 15, 2010 4:55 PM
To: Campbell, Chris
Subject: Sustainable Halton Water & Wastewater Master plan
Attachments: DOC100615.pdf

Providing input sheet/form

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: Christine Lacombe

TITLE: TEAC - chair person

AGENCY: Town Environmental Advisory Committee

ADDRESS: 29 Grey Owl Run, Georgetown

PHONE: 289-891-8966

FAX: 0

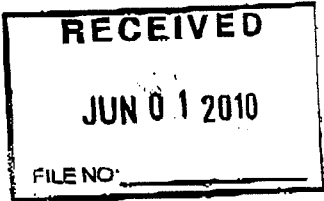
E-MAIL: TEAC@haltonhills.ca

Please indicate the appropriate response:

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- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Please send to Renee Brown as well, in the event I am absent, she can speak with the rest of the committee. Thank you.



REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Paul Smeltzer

TITLE: Principal Consultant

AGENCY: AMEC Earth + Environmental

ADDRESS: 3215 North Service Road

PHONE: 905 335-2353

FAX: 905 335-1414

E-MAIL: paul.smeltzer@amec.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: Tys Theysmeyer
TITLE: Head of Conservation
AGENCY: Royal Botanical Gardens
ADDRESS: 680 Plains Rd. W.
PHONE: 905-577-1158 ext. 251.
FAX: 905-577-0375
E-MAIL: ttheysmeyer@rbg.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Waters & lands that drain
into Grindstone Cr.

X

REPLY FORM**Please respond by June 16, 2010**

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.comRE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Lori Ritter

TITLE: Lands Resource Worker

AGENCY: Hiawatha First Nation

ADDRESS: 123 Paudash St RR 2 Keene, ON K0L 2G0

PHONE: 705-295-4421

FAX: 705-295-4424

E-MAIL: _____

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

We are interested in any archaeological
finds or environmental concerns

X

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Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: Ric Robertshaw, Peng

TITLE: Director Wastewater.

AGENCY: Region of Peel.

ADDRESS: 10 Peel Centre Drive, Brampton, ON L6T4B9

PHONE: 905-791-7800 x 4404

FAX: 905-791-6728.

E-MAIL: ric.robertshaw@peelregion.ca.

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Water & Wastewater.

X

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To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Ann Newman

TITLE: Damage Prevention Team Lead

AGENCY: Enbridge Pipelines Inc

ADDRESS: 801 Upper Canada Dr, Sarnia ON N7S 4H9

PHONE: 519 339-0503

FAX: 519 339-0510

E-MAIL: ann.newman@enbridge.com

Please indicate the appropriate response:

My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.

My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.

Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Enbridge Pipeline Inc owns and operated high pressure petroleum pipelines within the study area. New infrastructure may impact the pipelines/ROW.

x

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: Julie Anne Lamberts

TITLE: Water Resources Technician + Project Coordinator

AGENCY: Credit Valley Conservation

ADDRESS: 1255 Old Denby Road, Mississauga, ON, L5N 6R4

PHONE: 905-670-1615 ; 1-800-668-5557

FAX: 905-670-2210

E-MAIL: jalamberts@creditvalleyca.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

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Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Jennifer Lawrence

TITLE: Manager, Environmental Planning

AGENCY: Conservation Halton

ADDRESS: 2596 Britannia Rd. W

PHONE: 9-336-1158 ex. 266

FAX: 9-336-6684

E-MAIL: jlawrence@hrca.on.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

- Source Protection
- Water Quality + Quantity
- Riverine / Shoreline Impacts
- Fish habitat impacts

REPLY FORM

Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
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Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: L-AMY MARRAY

TITLE: P SENIOR PLANNER / Ecologist

AGENCY: CREDIT VALLEY CONSERVATION

ADDRESS: 1255 Old Derry Road

PHONE: 905 670-1615 ext 239

FAX: 905 670-2210

E-MAIL: lmarray@creditvalleyca.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Acton and Georgetown - potential impacts to watercourses and other natural features, assimilative capacity etc

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

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Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: JASON SHELDON

TITLE: V.P. LAND

AGENCY: THE REMINGTON GROUP INC.

ADDRESS: 7501 KEELE STREET, SUITE 100

PHONE: 905-761-8200

FAX: 905-761-8201

E-MAIL: jsheldon@remingtongroupinc.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

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105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: PAUL SYTSMA

TITLE: SENIOR PARTNER

AGENCY: URBANTECH CONSULTING

ADDRESS: 25 ROYAL CREST COURT, SUITE 201, MARKHAM, ON L3R-9X4

PHONE: 905-946-9461 XT 403

FAX: 905-946-9595

E-MAIL: PSYTSMA@URBANTECH.COM

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

REPLY FORM

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Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME:

CARLO STEFANETTI

TITLE:

VICE PRESIDENT

AGENCY:

FIELDGATE DEVELOPMENTS

ADDRESS:

5400 YONGE STREET, 5TH FLOOR, TORONTO, ONTARIO, M2N 5R5

PHONE:

416-227-9005 EXT 325

FAX:

416-227-9007

E-MAIL:

carlo@fieldgatedevelopments.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

WE ARE INTERESTED IN ALL ASPECTS OF THE MASTER PLAN
AND LOOK FORWARD TO REVIEWING THE MATERIAL &
PROVIDING COMMENTS AND FEEDBACK.

Nathan S

RECEIVED

MAY 13 2010

HALTON REGION
PUBLIC WORKS & ENG.

NOTICE OF STUDY COMMENCEMENT AND PUBLIC INFORMATION CENTRE #1 Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Background

Halton Region has initiated a Region-wide Water and Wastewater Master Plan under the Sustainable Halton process to identify a preferred servicing strategy to support growth to the year 2031.

This strategy will accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Growth Plan (2005). In accordance with the Places to Grow Act (2005), the residential and employee population in Halton Region is expected to grow by 300,000 and 170,000 respectively.

This Master Plan will consolidate information related to previous Studies and Master Plans for north and south Halton, including the 2008 South Halton Water and Wastewater Master Plan Update which was prepared to address the water and wastewater servicing needs within the 2021 planning horizon. The recommendations from previous Master Plans will be reviewed in the context of the current regulatory environment and planning estimates.

The study area for the Sustainable Halton Water and Wastewater Master Plan (refer to map) includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor).

Problem Statement

To develop a comprehensive strategy for providing water and wastewater servicing to existing and approved growth areas in Halton Region to 2031.

The Process

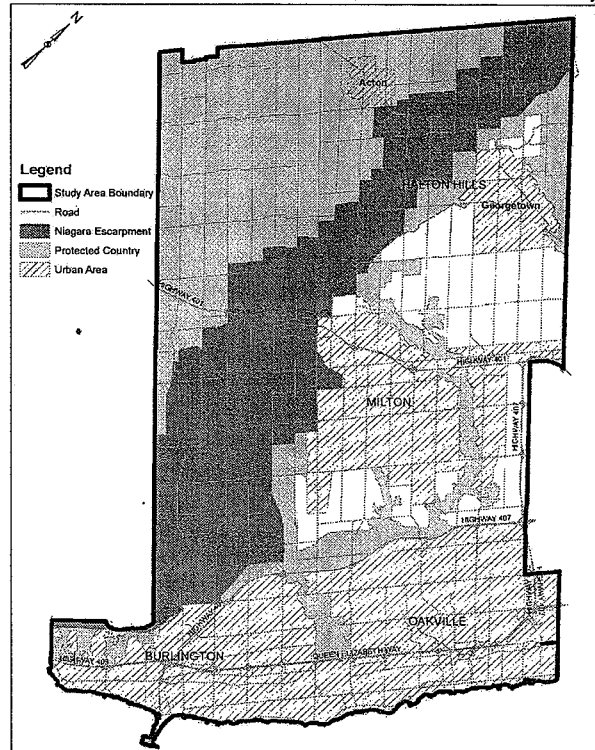
This notice signals the commencement of the Sustainable Halton Water and Wastewater Master Plan – a study which will define existing problems/opportunities, consider and evaluate solutions, and identify a preferred water and wastewater servicing strategy to the year 2031. The Study follows the approved master planning process as outlined in Section A.2.7 (Approach #2 in Appendix 4) of the Municipal Engineer's Association (MEA) Municipal Class Environmental Assessment (October 2000 as amended in 2007). The Master Plan will fulfill the requirements for Schedule A, A+, and B projects and become the basis for future investigations for specific Schedule C projects that are proposed within.

A key component of the study will be consultation with interested stakeholders including the public, special interest groups and regulatory agencies. The study work plan provides for two rounds of Public Information Centers (PICs) at four locations (one in each local municipality). Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study. This notice advises the public of the first round of PICs.

Public Information Centre Locations

Municipality	Date	Time	Location
Town of Milton	Wednesday, May 26, 2010	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Room 3)
City of Burlington	Thursday, May 27, 2010	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Oakville	Monday, May 31, 2010	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
Town of Halton Hills	Wednesday, June 2, 2010	6:30 - 8:30pm	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Note: If you require special accommodation for a disability at one of the above PICs, please advise the study contacts in advance of the PIC.



X

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: NATHAN STEWART

TITLE: TRANSPORTATION TECHNOLOGIST

AGENCY: HALTON REGION CYCLING COMMITTEE

ADDRESS: 1151 BRONTE ROAD

PHONE: 905-825-6000 X7644

FAX: _____

E-MAIL: NATHAN.STEWART@HALTON.CA

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

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Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Jackie Van de Valk

TITLE: Rural Planner

AGENCY: Ont. Ministry of Agriculture, Food + Rural Affairs

ADDRESS: 6484 Wellington Rd. - Unit 10, Etona, ON N0B 1S0

PHONE: 519-846-3415

FAX: 519-846-8178

E-MAIL: jackie.vandevalk@ontario.ca

Please indicate the appropriate response:

My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.

My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.

Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

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105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: DAN DOLAN

TITLE: Treasurer

AGENCY: Trafalgar-Chartwell Residents' Association

ADDRESS: 233 Cross Ave, Unit C-4 Box 177.
Oakville, ON L6J 2W9.

PHONE: _____

FAX: 905-901-2959.

E-MAIL: dandolan4@gmail.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
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Area of interest or preliminary comments:

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105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: TIM WARNER

TITLE: VICE PRESIDENT

AGENCY: MATTAMY DEVELOPMENT CORPORATION

ADDRESS: 2360 BRISTOL CIRCLE, OAKVILLE, ON L6H 6M5

PHONE: 905-829-6325

FAX: 905-829-7610

E-MAIL: tim.warner@mattamycorp.com

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
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Area of interest or preliminary comments:

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Markham, ON, Canada L3T 7W3
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Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: JIM VANDERKOOY
TITLE: PRINCIPAL
AGENCY: KING'S CHRISTIAN COLLEGIATE
ADDRESS: 528 BURNHAMTHORPE ROAD WEST
OAKVILLE ONTARIO L6M 4K6
PHONE: 905 257 5464 EXT 504
FAX: 905 257 5463
E-MAIL: jimvanderkooy@kingschristian.net

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

When services will be provided to our site and how will the services be delivered.

King's Christian Collegiate
528 Burnhamthorpe Road West
Oakville, ON L6M 4K6

X

REPLY FORM

Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

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105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

*Faxed
May 15/10*

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME:

Dan Steele

TITLE:

Director of Engineering

AGENCY:

Oakville Hydro

ADDRESS:

*P.O. Box 1900, 861 Redwood Square, Oakville, ON
L6J 5E3*

PHONE:

905-825-9400

FAX:

905-825-5830

E-MAIL:

d.steele@oakvillehydro.com

Please indicate the appropriate response:

My agency is interested in providing input regarding this study. Please leave my agency on the Study Mailing List.

My agency is not interested in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.

Please remove my agency from the Study Mailing List.

Area of interest or preliminary comments:

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Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Greg Sage

TITLE: Ems Chief

AGENCY: Halton Region Ems

ADDRESS: 1179 Bronte Road, Oakville L6m 4G3

PHONE: 905-825-6000 x 7091

FAX: 905-825-9061

E-MAIL: greg.sage@halton.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

REPLY FORM

Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP
Mailing Address: AECOM
105 Commerce Valley Drive Wes
Markham, ON, Canada L3T 7W
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.c



DATE: June 16, 2010

Chris Campbell
(905) 886-9494

Shelley Partridge
(905) 825-8822



RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Shelley Partridge / Margaret Smith
TITLE: Senior Planner / Development Project Manager
AGENCY: Region of Halton, Current Planning Section
ADDRESS: 1151 Bronte Rd. Oakville, ON L6M 3L1
PHONE: (905) 825-6000 ext. 7180 / ext. 7630
FAX: (905) 825-8822
E-MAIL: shelley.partridge@halton.ca / margart.smith@halton.ca

Please indicate the appropriate response:

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Area of interest or preliminary comments:

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Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Anita Fabac

TITLE: Senior Policy Analyst

AGENCY: Region of Halton, Long Range Planning

ADDRESS: 1151 Bronte Rd, Oakville, ON L6M 3L1

PHONE: 905-825-6000 x7187

FAX: 905-825-8822

E-MAIL: anita.fabac@halton.ca

Please indicate the appropriate response:

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Area of interest or preliminary comments:

X

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Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Domenico Renzella

TITLE: Manager of Planning

AGENCY: HALTON DISTRICT SCHOOL BOARD

ADDRESS: 2050 GUELPH LINE BURLINGTON ONT L7R 3Z7

PHONE: 905 339-3665 ext 3375

FAX: 905 336-9994

E-MAIL: renzella.d@hdsb.ca

Please indicate the appropriate response:

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Area of interest or preliminary comments:

x

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Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: Dave Pitblado

TITLE: _____

AGENCY: Paletta International Corporation

ADDRESS: 4480 Paletta Court, Burlington, L7L 5R2

PHONE: (905) 632-6036

FAX: (905) 632-0064

E-MAIL: dpitblado@paletta.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
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Area of interest or preliminary comments:

Burlington and Oakville

REPLY FORM

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Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: CHRIS POWELL
TITLE: SENIOR CONSULTANT
METROPOLITAN CONSULTING INC

AGENCY: _____

ADDRESS: 2290 QUEENSWAY DRIVES
BURLINGTON, L7R 3T2

PHONE: 905 637 2926 EXT 232

FAX: 905 637 3268

E-MAIL: cpowell@metrocon.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
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Area of interest or preliminary comments:

X

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Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: JOHN BOICIT

TITLE: CHAIR

AGENCY: RAMBO CREEK RAILWAYERS' ASSOCIATION

ADDRESS: 2085 CAROLINE ST. BURLINGTON L7R1K6

PHONE: 905 639-0854

FAX: N/A

E-MAIL: amiller10@coyeco.ca

Please indicate the appropriate response:

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- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:



... **Fax**

Fax To: Chris Campbell

Fax No: 905-886-9494

Company: AECOM

Telephone: 905-747-7533

Fax From: Cathy Robertson

Fax No: 905-333-5866

Dept: Roads and Parks
Maintenance

Telephone: 905-333-6166

No. of pages: 2

Date: May 17, 2010

Urgent For Review Please Comment Please Reply Please Recycle

See attached.

This message, including any attachments, is privileged and intended only for the addressee(s) named above. If you are not the intended recipient, you must not read, use or disseminate the information contained in this fax. If you have received this fax transmission in error, please notify the sender immediately by telephone, fax or email and shred this fax, including any attachments, without making a copy. Access to this fax by anyone else is unauthorized. Thank you.

X

REPLY FORM

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Mailing Address: AECOM
 105 Commerce Valley Drive West
 Markham, ON, Canada L3T 7W3
 Phone: (905) 747 7533
 Fax: (905) 886 9494
 Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
 Sustainable Halton Water and Wastewater Master Plan
 Municipal Class Environmental Assessment Study

NAME: Cathy Robertson

TITLE: Director of Roads and Parks Maintenance

AGENCY: City of Burlington

ADDRESS: P.O. Box 5013, Burlington, ON, L7R 3Z6

PHONE: (905) 333-6134

FAX: (905) 333-5866

E-MAIL: robertsonc@burlington.ca

Please indicate the appropriate response:

- My agency is interested in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency is not interested in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please remove my agency from the Study Mailing List.

Area of interest or preliminary comments:

Please advise if there will be technical agencies meetings or if the PIC's are also meant to be the contact points for local municipal stakeholders. Thanks.

REPLY FORM

Please respond by June 16, 2010

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Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME:

John Hall

TITLE:

HHRAP Coordinator

AGENCY:

Hamilton Harbour Remedial Action Plan
CANADA CENTRE FOR INLAND WATERS

ADDRESS:

P.O. Box 5050, Burlington ON L7R 4A6

PHONE:

(905) 336-6465

FAX:

john.hall@ec.gc.ca

E-MAIL:

Please indicate the appropriate response:

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Area of interest or preliminary comments:

Skycay WWTP

Campbell, Chris

From: Horwath, Sarah [HorwathS@hcdsb.org]
Sent: Tuesday, May 25, 2010 4:40 PM
To: Campbell, Chris
Subject: FW: Scan from a Xerox WorkCentre
Attachments: DOC.PDF

Hi Chris,

Please see the attachment sent on behalf of Scott Bland.

Thanks,

Sarah

Sarah Horwath
Assessment & Planning Clerk
Halton Catholic District School Board
905.632.6300 x. 165
horwaths@hcdsb.org

"May you always be blessed with walls for the wind. A roof for the rain. a warm cup of tea by the fire. Laughter to cheer you. Those you love near you. And all that your heart might desire."

- Irish Blessing

-----Original Message-----

From: workcenter@hcdsb.org [mailto:workcenter@hcdsb.org]
Sent: Tuesday, May 25, 2010 10:57 AM
To: Horwath, Sarah
Subject: Scan from a Xerox WorkCentre

Please open the attached document. It was scanned and sent to you using a Xerox WorkCentre.

Attachment File Type: PDF

WorkCentre Location: Board Office - Outside of Accounting Device Name: XRX0000AA7E670F

For more information on Xerox products and solutions, please visit <http://www.xerox.com>

This email (including any attachments) is property of the Halton Catholic District School Board and is private and intended only for the person(s) to whom it is addressed. It may contain confidential or personal information and be protected under the Education Act, Municipal Freedom of Information & Protection of Privacy Act and/or Personal Health Information Protection Act. Unauthorized review, distribution, copying or disclosure is strictly prohibited. If you have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the message and attachments. Your cooperation is valued.

REPLY FORM
Please respond by June 16, 2010

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Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: SCOTT BLAND.

TITLE: ADMINISTRATOR, PLANNING SERVICES.

AGENCY: HCDSB.

ADDRESS: 802 DRURY LANE, BURLINGTON POBOX 5308

PHONE: (905) 632-6314 x 107

FAX: (905) 632-6398.

E-MAIL: blands@hcdsb.org

Please indicate the appropriate response:

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Area of interest or preliminary comments:

X

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Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
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Municipal Class Environmental Assessment Study

NAME: Walter H. Watt
TITLE: Property Administrator
AGENCY: TRANS-NORTHERN PIPELINES INC
ADDRESS: 45 VOGEL RD, SUITE 310, RICHMOND HILL L4B 3R6
PHONE: (289) 475-5366
FAX: (905) 770-8675
E-MAIL: Wwatt@tupi.ca

Please indicate the appropriate response:

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- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

TNPE is interested only to the extent proposed water lines or sewer works would interact with existing TNPE facilities in southern Oakville & Burlington. Crossings would be subject to National Energy Board Act & Pipeline Crossing Regulations.

Watt, 100512

Campbell, Chris

From: Rob Witham [WithamR@mmm.ca]
Sent: Monday, May 31, 2010 12:05 PM
To: Campbell, Chris
Subject: RE: Halton, Reply Form
Attachments: 2010-05-31_Notice, Reply Form.PDF

See attached reply form

Rob Witham, P.Eng.
Municipal Engineering
MMM GROUP
☎ 905-882-4211, x6332

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
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Municipal Class Environmental Assessment Study**

NAME: Rob Witham, P. Eng.

TITLE: Senior Project Engineer

AGENCY: MMM Group

ADDRESS: 100 Commerce Valley Drive West

PHONE: (905) 882-4211 ext 6332

FAX: (905) 882-7300

E-MAIL: withamr@mmm.ca

Please indicate the appropriate response:

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Area of interest or preliminary comments:

Tracking/reviewing on behalf of client - Metrolntario

REPLY FORM

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Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: MORLEY RICHARDSON

TITLE: PRESIDENT

AGENCY: 208222 ONTARIO LIMITED & 368785 ONTARIO LIMITED
(FORMERLY RICHARDSON CHEVROLET LIMITED)

ADDRESS: 846 BISHOP CRT. MILTON ON. L9T 3N1

PHONE: (905) 875-3639

FAX: (905) 878-7727

E-MAIL: mo-bamb@hotmail.com

Please indicate the appropriate response:

My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.

My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.

Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

SOUTH EAST CORNER REGIONAL ROAD #25 S.
& DERRY ROAD. MILTON

X

REPLY FORM

Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: **Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

NAME: _____

TITLE: _____

AGENCY: _____

ADDRESS: _____

PHONE: _____

FAX: _____

E-MAIL: _____



Town of Milton
150 Mary Street
Milton, ON L9T 6Z5
www.milton.ca

STEPHANIE JARVIS, OALA, CSLA
Environmental Planner

Planning & Development Department
150 Mary Street, Milton Ontario L9T 6Z5
Telephone: (905) 878-7252 Ext. 2567
Fax: (905) 876-5024
Email: stephanie.jarvis@milton.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Campbell, Chris

From: James Etienne [jetienne@grandriver.ca]
Sent: Saturday, June 05, 2010 2:26 PM
To: Campbell, Chris
Subject: FW: scanned document from copier
Attachments: halton ea.pdf

Chris:

The GRCA is interested in continued participation in this study.

Sincerely,

James B. Etienne, P.Eng.
Senior Water Resources Engineer
Grand River Conservation Authority
400 Clyde Road, Cambridge, ON N1R 5W6
Tel: 519-621-2763 ext. 2298
email: jetienne@grandriver.ca

-----Original Message-----

From: James Etienne [mailto:jetienne@grandriver.ca]
Sent: Saturday, June 05, 2010 1:30 PM
To: James Etienne
Subject: scanned document from copier

REPLY FORM
Please respond by June 16, 2010

To: Chris Campbell MTP MCIP RPP MRTPI

Mailing Address: AECOM
105 Commerce Valley Drive West
Markham, ON, Canada L3T 7W3
Phone: (905) 747 7533
Fax: (905) 886 9494
Email: chris.campbell@aecom.com

RE: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

NAME: James Etienne

TITLE: Sr. Water Resource Engineer

AGENCY: Grand River Conservation Authority

ADDRESS: 400 Clyde Rd. P.O. Box 729, Cambridge, ON
N1R5W6

PHONE: (519) 621-2761 x 2298

FAX: (519) 621-4844

E-MAIL: jetienne@grandriver.ca

Please indicate the appropriate response:

- My agency **is interested** in providing input regarding this study. Please leave my agency on the Study Mailing List.
- My agency **is not interested** in providing input regarding this study but would like to be kept informed. Please leave my agency on the Study Mailing List.
- Please **remove** my agency from the Study Mailing List.

Area of interest or preliminary comments:

Water budget issues at the boundary
of the Grand, Credit and Halton
watersheds.

PUBLIC INFORMATION CENTRE #1

RESPONSES



AECOM
105 Commerce Valley Drive West, Floor 7 905 886 7022 tel
Markham, ON, Canada L3T 7W3 905 886 9494 fax
www.aecom.com

February XX, 2011.

Contact Name
Contact Title
Company Name
Company Address
Company Address

Dear Contact Name:

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER SERVICING PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Halton Region is undertaking a Water and Wastewater Master Servicing Plan Study to develop a long term servicing strategy for the Region's water and wastewater systems. We would like to thank you for your interest in this Master Plan study, and for providing your comments in the first round of public consultation.

The Region has identified a preliminary preferred servicing strategy, considering comments received in the process. Now into the second round of public consultation, the Region would like to gather feedback to assist in choosing a final preferred servicing concept. At this time, we would like to kindly invite you to the second round of Public Information Centres (PIC). Enclosed you will find the notice for PIC #2 with dates, times, and locations.

As requested, we will continue to keep you informed throughout the master planning process. If you have any questions or require additional information regarding this study, please contact either the undersigned at 905.747.7562 or via email at chris.hamel@aecom.com. You can also contact David Simpson, Halton Region's Project Manager, at 905.825.6000 ext. 7601 or via email at david.simpson@halton.ca.

Sincerely,

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

Encl.
cc:



Public Works
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-8822

PR – S2500A/2501A: Sustainable Halton Water and Wastewater Master Plan

FROM: Ken Woodruff, BurlingtonGreen
Tel. No.: 905-639-2262
Email: kwoodruff@cogeco.ca

CONTACTED: Jack Dennison, Halton Region

OTHERS INVITED: Christine Upton, P.O.W.E.R.
Tel. No. 905-873-1820
Email: c.upton@sympatico.ca

DATE: October 22, 2010

RE: Sustainable Halton Water and Wastewater Master Plan

Comments / Inquiry:

Ken Woodruff contacted Councillor Jack Dennison (Halton Region) by email on August 24, 2010 and had various comments in regards to the Sustainable Halton Water and Wastewater Master Plan information presented at the May 27, 2010 PIC held in Burlington.

Mr. Woodruff provided the following comments in his email. He indicated that he was frustrated with the Master Plan information presented at the PIC because:

1. It consisted of about 40 boards, including eight with "options" – all of which include the "big pipe" to Milton.
2. When I questioned why no other options, I was told it was because Halton Hills needed it to accommodate the incremental 20,000 people to be added outside the existing boundaries and that this was "in ROPA". (It is on map 5 at <http://www.halton.ca/common/pages/UserFile.aspx?fileId=17882>- it's the bottom left hand area outlined in blue.)
3. There were no easily understood rationales.
4. There was no spending/cost tables.
5. There were no handouts and I had to request a written copy which was delivered in July.



He indicated that the hard copy was also disappointing with respect to the following:

1. Although the "Servicing Concepts Evaluation Criteria" includes "Financial Impact", there are not any financial estimates for any of the Water Servicing or Wastewater Servicing Concepts!
2. The report does not contain recommendations.
3. The PIC's presentation of eight "options" chosen from the seven Water Supply Options for Acton, seven for Georgetown, three for Milton and 10 for South Lake areas and four Waster Water Options for Acton, four for Georgetown, two for Milton and 25 for South Lake. The written report should have had the PIC options outlined and rationalized.
4. The follow-up actions from the May PICs include detailed alternative servicing analysis, triple bottom line evaluation and hydraulic modeling. In other words, they will be analyzing only the "big pipe" options at the next opportunity for public input at the Fall 2010 PIC 2 and others will not be analyzed.

Follow up Action / Date:

David Simpson scheduled a meeting with Ken Woodruff (BurlingtonGreen) and Christine Upton (Protect Our Water and Environmental Resources - P.O.W.E.R. Group) on October 22, 2010.

Halton representatives from both the Water Planning Group (David Simpson, Jacek Pawlus) and Wastewater Planning Group (John Duong, Magda Bielawski, and Mickey Liu) met with Ken Woodruff and Christine Upton to discuss their issues in regards to the Halton Region Master Servicing Plan.

The following was discussed with the Water Planning Group (David Simpson and Jacek Pawlus):

- David Simpson explained the general process of the Master Servicing Plan including the reasons for growth (Places to Grow Act, 2005). The main trigger for this Master Servicing Plan is to provide an updated water and wastewater capital implementation program which would provide input into the 2011 Development Charge By-Law process.
- Most of the discussion was focused on Georgetown as the expected growth for 2031 is quite significant (+20,000 persons).
- Ken Woodruff was concerned about the phrase in AECOM's report "watermain to be oversized for future growth" for Georgetown.
 - David Simpson explained that oversizing is considered for trunk infrastructure requirements beyond the 2031 horizon (i.e. urban boundary build-out scenario). Strategic infrastructure oversizing reduces the need to potentially upgrade works in the near future and thus would limit environmental and social disruptions.

- David Simpson explained that there is a need to supply an additional 10,000 m³/day (approximately) to meet the 2031 projected growth demand for Georgetown. David Simpson stated that the following supply options were analyzed for PIC #1:
 1. Development of new well fields (Inglewood, Huttonville and Middle Sixteen Mile Creek East and West) in Georgetown.
 - However, in order to develop new well fields, the fields need to show that they are sustainable (ie. do not affect existing ecology and private wells)
 2. Expansion of Lindsay Court and Cedarvale Well Fields.
 3. Temporary Peel lake base connection
 4. Halton lake base connection
- David Simpson explained that the existing well fields in Georgetown may provide an additional supply of 3,000 to 4,000 m³/day (approximately). However, this needs to be confirmed through studies and tests.
 - The supply shortfall of 6,000 to 7,000 m³/day (approximately) needs to be addressed either with a Peel lake base connection or with a Halton lake base connection.
- Ken Woodruff required an explanation why all concepts had a proposed lake base system to Georgetown.
 - David Simpson confirmed that only 1 of the 6 concepts included a lake base system for Georgetown.
- David Simpson confirmed that water efficiency (5% reduction) has been taking into account in the water demand projections.
 - However, the Water Efficiency Plan is currently under development and will need to be presented and approved by Council in order to obtain necessary funding. Other water efficiency programs, such as the Low Flow Toilet Rebate program (started in 2007) and Leak Detection Program, are ongoing.
- Ken Woodruff was concerned about the lack of financial information presented at PIC #1 for each concept.
 - David Simpson provided a table showing high level conceptual draft costs of each concept (colour coded to represent low-medium-high costing groups) which were based on the Sustainable Halton Fiscal Impact Analysis for the preferred growth concept.
 - Ken Woodruff asked if the actual dollar value cost estimate will be provided at the next PIC.
 - David Simpson will consult with Halton and AECOM regarding the level of costing detail that will be provided at the next PIC.
 - David Simpson also explained that a lake base system is significantly more cost effective than a maintaining or expanding groundwater system.
- David Simpson explained that the next PIC (February 2010) will streamline the concepts presented at PIC #1 to 2 or 3 preferred concepts and will suggest a preliminary preferred water servicing alternative.



- David Simpson to confirm with Christine Upton if the Master Servicing Plan team can meet with the P.O.W.E.R. Group.
- David Simpson will add Christine Upton and Ken Woodruff to the Master Servicing Plan mailing list.

WASTEWATER PLANNING

The following was discussed with the Wastewater Planning Group (John Duong, Magda Bielawski and Mickey Liu) at the meeting:

- Christine Upton explained the composition of the Halton Hills sustainable community. The Town of Halton Hills currently forms a Sustainable Advisory Committee (about 35 committee members, including the town councillors). One of the sub-committees is the task force for water and wastewater servicing.
- Mickey Liu briefly walked through the wastewater servicing concepts for each local municipality with Ken Woodruff and Christine Upton.
- Mickey Liu explained that the second PIC (after the detailed evaluation via a typical municipal Class Environmental Assessment or master plan process) usually presents the recommendation on the preliminary preferred servicing alternative and costs.
- John Duong explained the streamline of the Provincial Policy Statement (PPS), Place to Grow Act, ROPA 38 (Sustainable Halton), ROPA 39 (BPE), and associated road, water, and wastewater servicing master plan development.
- Ken Woodruff asked if the wastewater treatment plant effluent could discharge back to the lake instead of the local creeks.
 - Magda Bielawski explained the water balance concept and that the wastewater should be discharged back to the same watershed from which the water came from. It is understood from review agencies that they are not in favour of blending two different water systems i.e. groundwater and lake water.
- Ken Woodruff and Christine Upton expressed their interest to see the integrated cost estimates for pairing water and wastewater servicing alternatives if applicable.
 - John Duong responded that the master plan project team will carefully consider this suggestion.

If you have any further questions or comments, please contact David Simpson (Water Planning) or John Duong (Wastewater Planning).

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Thursday, November 18, 2010 6:10 PM
To: Rev. Jean Leckie
Cc: McKinnon, Steve; Campbell, Chris; Pawlus, Jacek
Subject: RE: Big piipe

Hi Rev. Leckie,

Thank you for your interest and comments on the Sustainable Halton Master Plan.

You pose a very interesting question. As a water purveyor, we are governed in Ontario by both the Ministry of Environment and the Ministry of Natural Resources. We are required to obtain permits to take water and are limited to the amount of water we are allowed to take from any one particular source. In fact any person, institution or company must apply for a permit to take water if they require more than 50,000 Litres in a year. This allows the Ministry to monitor who and in what quantity water is being taken from the ground, lakes, river and streams. The Ministry of Natural Resources monitor and to a certain degree control the water levels throughout the Province. They do not allow the transfer of water outside any one particular watershed and have There are a few exceptions, such as commercial bottling companies. Halton Region lies within the Lake Ontario watershed, therefore water is allowed to be delivered from one community to another. However, for example, we would not be allowed to transfer water to the City of Barrie into the Lake Simcoe watershed.

What I find interesting about your question is the balancing of water taking and the putting back. Water that is taken by a water purveyor such as Halton Region is nearly all put back to the same water shed from which it was taken. For example, last year Halton delivered nearly 64 million litres of drinking water to residents, with most or all of it being returned to our wastewater plants which in turn treated nearly 79 million litres. The discrepancy lies in the fact we collect more than waste water from residents, we also inadvertently collect water from infiltration and older homes that still have down spouts connected to our system. We are implementing corrective measures to correct this though.

Again there is always a caveat. In the early 1900's the City of Chicago started to found their own water in and around the city was being polluted by inefficient treatment of wastewater. Their solution: reverse the flow of the Chicago river to deliver their waste to the Mississippi River. Much to the chagrin of their neighbours down stream. What followed over the course of the next several years was a steady decline in both Lake Michigan and Lake Huron water levels. Public outcry from neighbouring States and Provinces forced Chicago to dramatically curtail the flow out of the lake. There is today a move to put the river back to its original state and once again flow back into Lake Michigan. Wastewater treatment has advanced to degree which the effluent is of suitable quality that diversion is no longer required. The International Joint Committee on the Great Lakes have now banned any new diversion of water from the Great Lakes. Over the last several years there have been a few applications to divert water away from the lakes but all have been denied, both in Canada and the United States. Sadly this is not the case everywhere in Canada and the world though organisations are trying to stop it.

It has been noted that the amount of water lost in Ontario due to human activity is minimal compared to the amount lost to evaporation and natural causes. It is interesting to note that there are cyclical and long term variations in water levels. For instance, Lake Ontario and generally all the Great Lakes reach a low every thirty years with an extreme low every 150 years. This may seem why at times the Great Lakes are low for no apparent reason. As yet, no reason has been found. Only one per cent of the water in the Great Lakes is replenished from natural causes, truly a balancing act. If we are not careful, human activity may have a significant impact on water levels in the future. Provincial and State Governments recognize this and are moving to even stronger protective measures.

I trust I have been of help in answering your question. I would recommend you visit the following websites or in fact pick up the phone and contact them directly for further information. They all are there to provide information and of course wish to hear from concerned residents. It all starts with us.

www.ene.gov.on.ca
www.mnr.gov.on.ca
www.ijc.org

Regards,

David

David Simpson, B.Sc., B.Eng., E.I.T.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7601

Toll free: 1-866-442-5866

Fax: 905-825-8822

Website: www.halton.ca



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Thank you

David

From: Rev. Jean Leckie [mailto:gracejl@bellnet.ca]

Sent: Thursday, November 04, 2010 6:13 PM

To: Simpson, David

Subject: Big piipe

Dear Mr. Simpson

I am a resident of Georgetown and have been reminded lately that we are moving steadily closer to the time when another community (Halton Hills) will begin to draw its water supply from Lake Ontario. At a public information meeting on development several months ago, I asked, "Do we know whether we (i.e. all the communities in Canada and the US that draw water from the system) are currently taking out of the Great Lakes more water than is being naturally replenished each year?" No one could answer my question. Can you?

Jean Leckie

130 Prince Charles Drive

Georgetown ON

L7G 3V6

gracejl@bellnet.ca



Water Planning
Water Services, Public Works
1151 Bronte Road
Oakville ON L6M 3L1

[REDACTED]

June 29, 2010

Re: Middle Sixteen Mile Creek Bedrock Valley Investigation Technical Report

Attention: [REDACTED]

In response to your letter dated June 7, 2010, I am forwarding you a copy of the Technical Report - Middle Sixteen Mile Creek Bedrock Valley Investigation. It contains the results of the investigation of a potential water supply source in the East Middle Sixteen Mile Creek Buried Valley (MSMCBV) Aquifer south of Georgetown, between Trafalgar Road and 8th Line.

The investigation of the East MSMCBV included surface geophysical surveys, drilling a series of monitoring wells and completing two test wells. A 24 hour pumping test of each well was conducted. During the pumping test, water levels were monitored in selected private wells nearby the test sites and other monitoring wells that were drilled for the study. Water samples were obtained for water quality analysis. The key study findings are referenced below:

- Based on the results of the pumping test analysis, the water supply potential of the aquifer east of Trafalgar Road is interpreted to be approximately 8 L/s (650 m³/day).
- It is unlikely that unacceptable impacts to adjacent private well users or ecologically sensitive surface water features would result from the development of municipal wells near the existing test well sites.
- At the test well sites, the aquifer is reasonably well protected from contaminant sources and municipal wells drilled at this location would not be considered "Groundwater Under the Direct Influence of Surface Water".
- The water quality meets the Ontario Drinking Water Quality Standards; however, treatment for iron would be necessary to improve the aesthetic water quality.

The viability of this potential supply is currently being validated and evaluated (i.e. social, environmental and economic impact analysis) through the Sustainable Halton Water and Wastewater Master Plan as part of the overall servicing strategy that is currently being developed for North Halton.



If the decision is made to pursue the water supply potential of the Middle Sixteen Mile Creek Buried Valley Aquifer east of Trafalgar Road, the next step would be to carry out additional aquifer testing to confirm the sustainable yield. If deemed viable, preliminary design and construction of the pumping and distribution facilities would be proposed.

Should you have any questions or require additional information, please feel free to contact me anytime by phone: 905.825.6000 x 7601 or email: hms@sympatico.ca.

Regards,

A handwritten signature in black ink, appearing to read "David Simpson".

David Simpson
Acting Manager, Water Planning

cc: Chris Campbell, Project Manager, AECOM
Kiyoshi Oka, Director – Water Services, Halton Region

PUBLIC INFORMATION CENTRE #2

PUBLIC INFORMATION CENTRE #2

NOTICE

NOTICE OF PUBLIC INFORMATION CENTRE #2 Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Background

Halton Region has initiated a Region-wide Water and Wastewater Master Plan to identify a preferred servicing strategy to accommodate growth to the year 2031. This strategy will accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Act (2005). In accordance with this Act, the residential and employee population in Halton Region is expected to grow by 300,000 and 170,000 respectively.

The study area for the Sustainable Halton Water and Wastewater Master Plan (refer to map) includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor).

Problem Statement

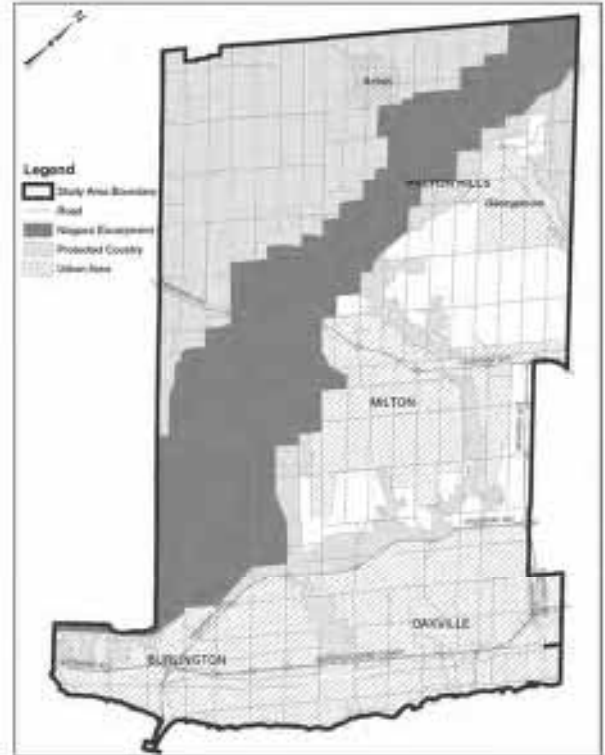
To develop a comprehensive strategy for providing water and wastewater servicing to existing and approved growth areas in Halton Region to 2031.

The Process

This Sustainable Halton Water and Wastewater Master Plan will define existing problems/opportunities, consider and evaluate solutions, and identify a preferred water and wastewater servicing strategy to the year 2031.

A key component of the Master Plan involves consultation with interested stakeholders including the public, special interest groups and regulatory agencies. The study work plan provides for two rounds of Public information Centers (PICs) at four locations (one in each local municipality). At the first round of PICs held on May 26/27/31 and June 2, 2010, the water and wastewater servicing concepts under evaluation were presented.

Since the first round of the PICs, the Region has completed a review of potential impacts on the natural, social and economic environments associated with each of the water and wastewater servicing concepts and alternatives that the Master Plan Study has identified. The review has resulted in the selection of preliminary preferred water and wastewater servicing alternatives. These preliminary preferred alternatives will be presented during a second round of PICs as shown in the following table:



Public Information Centre Locations

Municipality	Date	Time	Location
Town of Oakville	Wednesday, February 16, 2011	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
City of Burlington	Thursday, February 17, 2011	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Milton	Tuesday, February 22, 2011	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Banquet Hall)
Town of Halton Hills (Georgetown)	Thursday, February 24, 2011	6:30 - 8:30pm	Christ the King High School 161 Guelph Street, (Cafeteria)

The PIC will be a drop-in format and provide residents/interested parties with an opportunity to review and comment on the preliminary preferred alternatives. Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study.

You are encouraged to attend the PIC and provide your comments regarding the preliminary preferred servicing alternatives as they will be considered in finalizing the recommended water and wastewater servicing strategy. Comments and information regarding this study are being collected in accordance with the Freedom of Information and Protection of Privacy Act and to assist the project team in meeting the requirements of the Class EA process. With the exception of personal information, all comments will become part of the public record.

Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

David Simpson

Water Planning, Public Works
Regional Municipality of Halton
Phone: 905-825-6000, Ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Chris Hamel

Project Manager
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham Ontario
L3T 7W3
Phone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:
<http://www.halton.ca/WaterWastewaterClassEAs>

This Notice first issued on February 3, 2011.

NOTICE OF PUBLIC INFORMATION CENTRE #2

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

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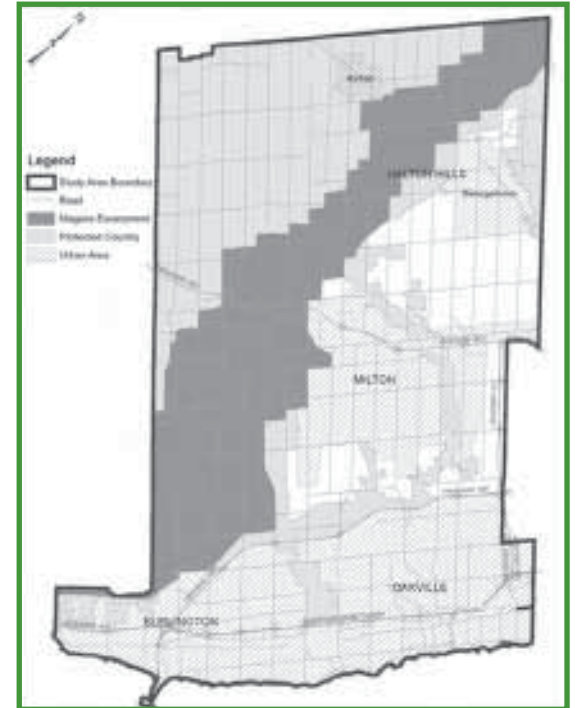
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Town of Halton Hills (Georgetown)	Thursday, February 24, 2011	6:30 - 8:30 p.m.	Christ the King High School 161 Guelph Street, (Cafeteria)

Additional information related to the study and consultation process may be obtained through the study website: www.halton.ca/WaterWastewaterClassEAs

This Notice first issued on February 3, 2011.



The PIC will be a drop-in format and provide residents/interested parties with an opportunity to review and comment on the preliminary preferred alternatives. Representatives from the Region and its consultants will be present at the PICs to answer questions and discuss the next steps in the study.

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Please contact either one of the following project team members if you have any questions or comments related to the study, wish to obtain more information on the study or wish to be added to the study mailing list:

Mr. David Simpson
Water Planning, Public Works
Halton Region
Phone: 905-825-6000 Ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
Project Manager
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham, Ontario L3T 7W3
Phone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

Please let us know as soon as possible if you will have an accessibility or accommodation need at a Halton Region hosted event or meeting.
1151 Bronte Road, Oakville, Ontario L6M 3L1 • Dial 311 or 905-825-6000 • Toll Free 1-866-442-5866 • TTY 905-827-9833 • www.halton.ca

PUBLIC INFORMATION CENTRE #2

SUMMARY REPORT

Regional Municipality of Halton

PIC Summary Report #2

Prepared by:

AECOM

105 Commerce Valley Drive West, Floor 7

Markham, ON, Canada L3T 7W3

www.aecom.com

905 886 7022 tel

905 886 9494 fax

Project Number:

60114062

Date:

April 12, 2011

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Revision Log

Revision #	Revised By	Date	Issue / Revision Description
1	L.Borowiec	April 12, 2011	Final

AECOM Signatures



Report Prepared By:

 Author Name, Designation
 Title



Report Reviewed By:

 Reviewer Name, Designation
 Title

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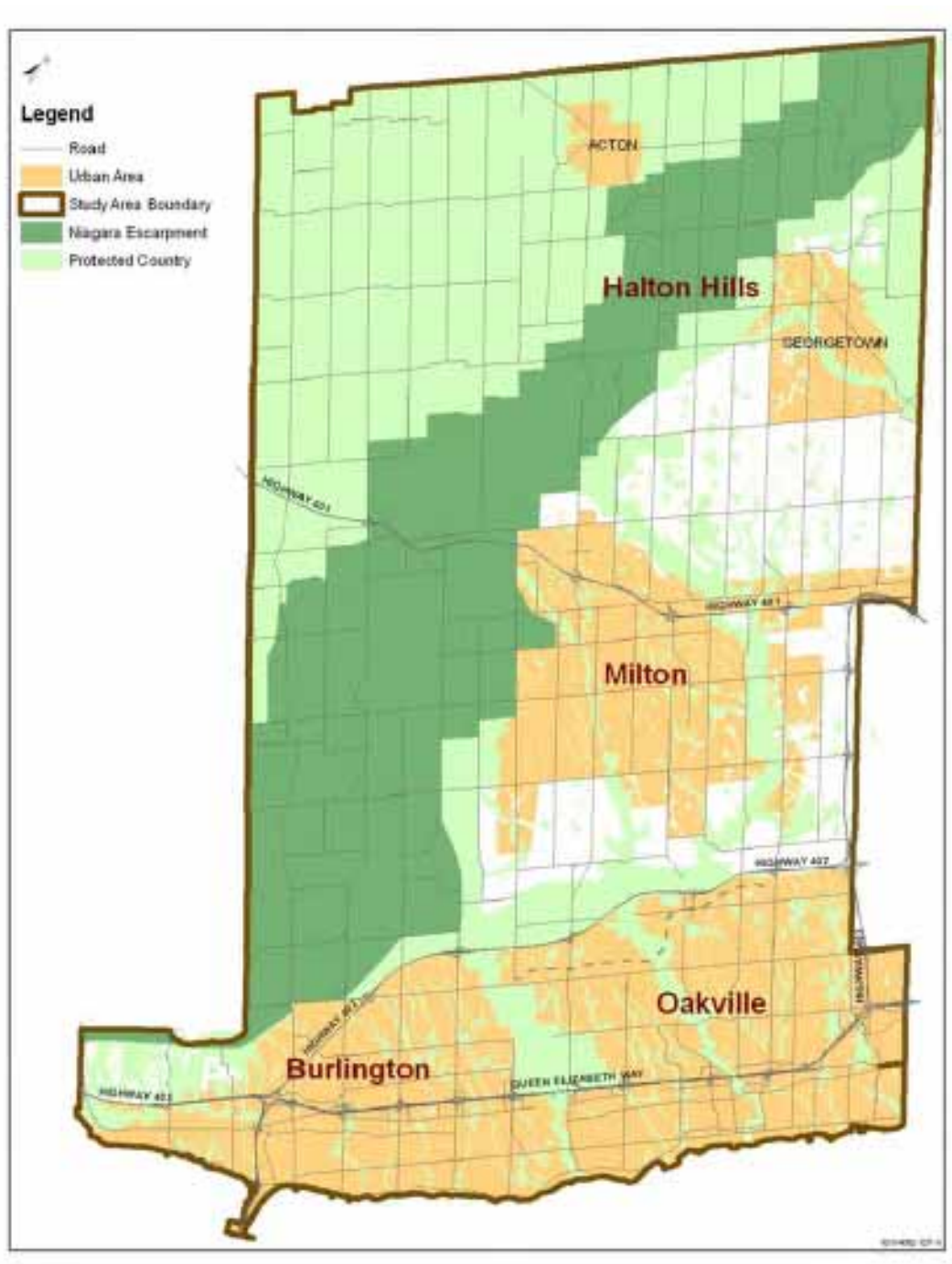
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1. Background and Introduction

Halton Region initiated the Sustainable Halton Water and Wastewater Master Servicing Plan Study in 2009 to identify a long term water and wastewater servicing strategy to support existing and approved growth in the Region. This Master Plan study is intended to update its planning and servicing vision to accommodate the 2031 population / employment and intensification targets set out in the Places to Grow Growth Plan (2005).

The Master Plan study area includes Oakville, Burlington, Milton and Halton Hills (including Georgetown, Acton and the Highway 401 Corridor), as shown in Figure 1.

Figure 1 Study Area



The Master Plan Study follows the Municipal Class Environmental Assessment planning principles including public consultation and systematic evaluation of alternatives. A key part of the public consultation component is the Public Information Centre (PIC), which serves as a forum for information exchange between the public/stakeholders and the project team.

The *Public Information Centre #2 Summary Report* focuses on PIC #2 and represents one element of the overall Master Plan documentation. The report documents the following:

- Information presented at PIC #2

- Summary of attendance

- All comments received and responses provided

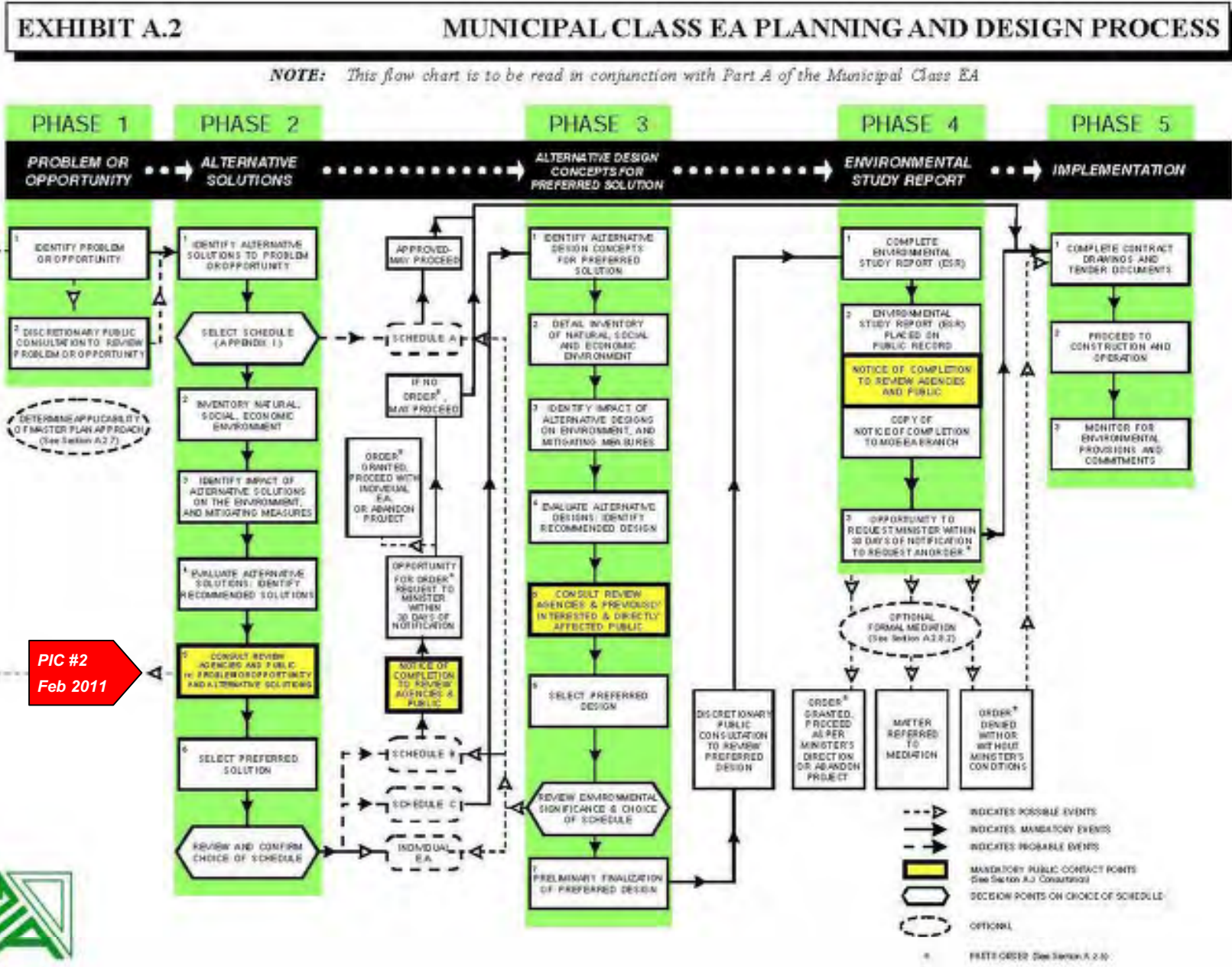
- Summarized table of all comments received and responses provided in order to track correspondence in a transparent and traceable manner

1.1 Class EA Context

The Sustainable Halton Master Plan Study follows the approved master planning process as outlined in Section A.2.7, Appendix 4 of the Municipal Engineers Association (MEA) Municipal Class Environmental Assessment (October 2000 as amended in 2007) document. The study is following Approach #2, which involves the preparation of a Master Plan document at the conclusion of Phases 1 and 2 of the Municipal Class EA process where the level of investigation, consultation and documentation are sufficient to fulfill the requirements of schedule B projects. The Master Plan will provide the basis required for future investigations for specific Schedule C projects identified.

Phase 2 of the Class EA process is intended to consult review agencies and the public on the alternative solutions to the problem or opportunity presented at PIC #1. PIC #2 was held in February 2011, during Phase 2 of the Master Plan Class EA study, as shown in Figure 2.

Figure 2 Municipal Class EA Planning and Design Process



2. Public Information Centre #2

2.1 Purpose

Public Information Centre #2 was held between February 16th and February 24th, 2011 and was intended to:

- Outline key water and wastewater servicing issues
- Present alternative water and wastewater servicing strategies
- Present the preliminary preferred solution
- Discuss the decision making process in going from servicing concepts to alternatives and to the preliminary preferred servicing strategy
- Outline future study related scheduled Class Environmental Assessment activities
- Receive public input and answer any questions

2.2 Notifications

Stakeholders and the public were informed of PIC # 2 by newspaper advertisements, mail, and e-mail. A complete project mailing list documenting those that received the Notice of PIC #2 is included in *Volume III, PIC #2*.

2.2.1 Newspaper Advertisement

The Notice of PIC # 2 dated February 3rd, 2011 was published in the following newspapers:

- Burlington Post
- Oakville Beaver
- Milton Champion Compass
- Georgetown Independent and Free Press
- Acton Tanner
- Halton Compass

A copy of the newspaper advertisement is included in *Volume III, PIC #2*.

2.2.2 Mail Out

The Notice of PIC # 2 was also mailed to local government and review agencies on February 3rd, 2011.

2.2.3 E-mail

The Notice of PIC # 2 was also e-mailed on February 7th, 2011 to those who submitted contact information via e-mail only.

2.3 PIC 2 Dates, Times, and Locations

PIC #2 was held in each of the Region's four lower tier municipalities. Table 1 identifies the date, time, and location for each PIC.

Table 1 PIC 2 Dates, Times, and Locations

Municipality	Date	Time	Location
Town of Oakville	Wednesday, February 16, 2011	6:30 – 8:30 p.m.	Halton Regional Centre 1151 Bronte Road (North Auditorium)
City of Burlington	Tuesday, February 17, 2011	6:30 – 8:30 p.m.	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Milton	Tuesday, February 22, 2011	6:30 – 8:30 p.m.	Milton Sports Centre 605 Santa Maria Boulevard (Banquet Hall)
Town of Halton Hills (Georgetown)	Thursday, February 24, 2011	6:30 – 8:30 p.m.	Christ the King High School 161 Guelph Street (Cafeteria)

Display boards were available for viewing by the public and stakeholders. Representatives from Halton Region and its Consultant, AECOM were present at each PIC to provide information and answer questions.

2.4 PIC 2 Display Panels

The information presented at PIC #2 included:

- Updated population and employment projections
- Updated Master Plan deliverables and timeline
- Planning and decision-making process
- Water and wastewater servicing concepts evaluation criteria
- Key water and wastewater servicing issues
- Water demands and wastewater flow projections for each service area
- Existing water and wastewater treatment plant capacities
- Findings of Groundwater Capacity Study – existing conditions, methods and modeling results
- Update on intensification projects and impacts
- Preliminary preferred water and wastewater servicing strategy
- Preliminary cost estimates for the preliminary preferred servicing strategy

The final display boards presented at the PIC are included in *Volume III, PIC #2*.

2.5 PIC 2 Attendance

A total of 113 people attended PIC #2, counting only those who signed in. Table 2 shows a breakdown of the number of people who attended each PIC.

Table 2 PIC 2 Attendance

Municipality	No. Attendees
Town of Oakville	17
City of Burlington	11
Town of Milton	40
Town of Halton Hills	45
TOTAL	113

2.6 Comments and Responses

Attendees were encouraged to provide comments related to the Master Plan study in writing. Comments were received via reply forms, comment sheets, emails, and letters. All comments were compiled and are provided in *Volume III, PIC #2*. Table 3 summarizes all comments received (in chronological order) prior to and after PIC # 2.

A questionnaire was also distributed to the attendees in order to gather feedback on the adequacy of the Public Information Centre. The following are broad conclusions based on the completed questionnaires:

- Most attendees heard about the public meeting through the newspaper ad
- Most attendees found the display material somewhat to very informative
- Most attendees found that the staff and consultants in attendance were somewhat to very helpful
- Most attendees found that all their questions were answered satisfactorily

Completed questionnaires have been included in *Volume III, PIC #2*.

Table 3 Summary of Comments Received

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
1	Patricia Coca Distribution Engineer Halton Hills Hydro Engineering Dept. Acton, ON, L7J 2A9	Email	- Updating load forecast to ensure sufficient supply capacity and circuitry to where development is planned - Request for information regarding Halton Hills preliminary preferred alternatives - Add to mailing list	February 8, 2011.
2	Junior Francis Utilities Coordinator CN Railway 4 Welding Way Concord, ON, L4K 1B9	Email	- Keep CN informed of any work that may fall in right-of-way - Add to mailing list	February 8, 2011.
3	Cynthia Robinson Environment and Education Manager Ontario Stone, Sand and Gravel Association 5720 Timberlea Blvd, Unit 103 Mississauga, ON, L4W 4W2	Email	- Add to mailing list - Remove Jane White from mailing list	February 8, 2011.
4	Walter H. Watt Property Administrator Trans-Northern Pipelines Inc. 45 Vogell Road, Suite 310 Richmond Hill, ON, L4B 3P6	Email (Attached Letter)	- Confirms that Trans-Northern's pipelines cross study area from west to east within the City of Burlington and the Town of Oakville, south of QEW - Facilities must adhere to Pipeline Crossing Regulations and guidelines - Attached Pipeline Neighbours Organization information and pipeline facilities map	February 8, 2011.
5	Julius Lindsay Reporting Specialist LETTER SENT ON BEHALF OF Lisa Myslicki Environmental Coordinator Ontario Realty Corporation 1 Dundas Street West, Suite 2000, Toronto, ON M5G 2L5	Email (Attached Letter and map)	- Ontario Realty Corporation managed property is within the study area - Outlined potential negative impacts to the environment ORC tenants, land holdings, and cultural heritage features - Potential triggers related to the Ministry of Energy and Infrastructure's Class EA have been identified - Requested copy of draft EA report and review time (30 days) for comments prior to finalizing report, since project affects part of ORC managed property	February 14, 2011.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
6	<p>Melanie Arthur Communications Clerk</p> <p>LETTER SENT ON BEHALF OF Dave Simpson Communications Officer Lands and Resources</p> <p>Alderville First Nations 11696 Second Line, P.O. Box 46 Roseneath, ON, K0K 2X0</p>	Email (Attached Letter)	<ul style="list-style-type: none"> - Keep informed throughout all phases of project - Add to mailing list 	February 16, 2011.
7	<p>Ron Young</p> <p>Krpan Group 2500 Appleby Line , Suite 200, Burlington, ON, L7L 02A</p>	Email & Comment Sheet	<ul style="list-style-type: none"> - Add to mailing list - Request for comment sheet - No comments submitted - Request to be added to mailing list 	February 18, 2011. February 23, 2011.
8	<p>Gerald Asa</p> <p>The Effort Trust Company 242 Main Street East Hamilton, ON, L8N 1H5</p>	Email	<ul style="list-style-type: none"> - Owns the Market Place Plaza in Acton - Request for an executive summary pertaining to Acton 	February 23, 2011.
9	[Redacted]	Questionnaire	<ul style="list-style-type: none"> - Believes that key flaw in study is that area must grow as mandated by the province, hence all options are flawed in this context - Believes development community wants pipe to Georgetown to give them unlimited lake water to allow for more development - Opposes the use of lake water in Georgetown 	February 24, 2011.
10	<p>Carol Gustafson</p> <p>Milton Green 608 Foster Court Milton, ON L9T 4P1</p>	<p>Comment Sheet</p> <p>Phone & Email</p>	<ul style="list-style-type: none"> - Part of group, Save Our Source, in 1998 to preserve groundwater source for old Milton - Suggests targeting the NW corner of existing groundwater service area before the SE corner of old Milton - Agree with targeting the core first but would like to propose servicing on the NW industrial area next - Would like Walker's Line station wells to remain viable - Add to mailing list - Requested a copy of email correspondence between Jim Steeves (Milton Green) and David Simpson (Halton Region), from February 25, 2011., to March 2, 2011. 	February 24, 2011. March 4, 2011.

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
11		Comment Sheet	<ul style="list-style-type: none"> - Water conservation efforts should be employed to protect water resources - Conservation opportunities need to be identified - Suggests Region researches and promotes conservation Best Practices from other countries (Australia, California, etc.) 	February 24, 2011.
12		Comment Sheet	<ul style="list-style-type: none"> - Add to mailing list - No comments submitted 	February 24, 2011.
13	<p>Jim Steeves Milton Green Citizens Group 288 Boustield Crescent Milton, ON L9T 3G7</p>	Email	<ul style="list-style-type: none"> -Appreciated the open conversations with staff and consultants at the PIC - Mentions that nothing had been posted in local papers about the PIC, and felt caught 'off guard' when informed - Requests additional information that will interest citizens about the project to post in the Milton Green blog - Intends to present a balanced forum for discussion for everyone and would like any other feedback, comments, and recommendations that may be of interest to the public -Those on well water feel it is better as it doesn't contain contaminants which could be coming from industries upstream from the Lake Ontario intakes -current science indicates no difference between the two water sources, but long-term impacts are unknown -Would like clarification about MOE Permit To Take Water limitations and the possibility of more water available related to the Kelso Well upgrades -Requests clarification whether industries NW South of the 401 take as much water as the town -Email correspondence between Jim and David Simpson (Halton Region), has been forwarded to Carol Gustafson from Milton Green as requested via telephone discussion 	<p>February 25, 2011.</p> <p>March 2, 2011.</p> <p>March 4, 2011.</p>

No.	CORRESPONDENT	TYPE	COMMENT	DATE RECEIVED
14	Ron Baldessara Represents Randvest Inc. 5285 Solar Drive Mississauga, ON, L4W 5B8	Comment Sheet Attached map	- Randvest Inc. land is located north of the 407, SW corner of Trafalgar Road and Lower Base Line - Servicing alternatives do not accommodate these lands, that will be developed in the future - Attached sketch showing possible services of Randvest Inc. lands and other lands north of the 407 using future services to be entailed in the North Oakville Secondary Plan	March 1, 2011.
15	Karry Sandy-McKenzie Barrister & Solicitor Coordinator for Williams Treaties First Nations 8 Creswick Court Barrie, ON, L4M 2J7 PRIMARY CONTACT FOR: Chief Sharon Stinson Henry Council, Rama First Nations 5884 Rama Road, Suite 200 Rama, ON, L0K 1T0	Letter	- Acknowledges receipt of letter received February 7, 2011. - Copy of letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review - Direct all future correspondence and inquiries to, Ms. Sandy-McKenzie	March 1, 2011.
16	Richard Laughton President LMC CENSOL Group Milton, ON, L9T 4N8	Email	-Add to mailing list -Requests documentation of proposed changes to the use of Kelso or Walker's Line Wells for old Milton	March 3, 2011.
17		Email	-In favour of lake water for Timberlea -Had to deal with water softener for almost 30 years with the current system	March 3, 2011.

3. Next Steps

Following the second round of public consultation, the project team will:

- Compile information received from the public and stakeholders to finalize the servicing strategies
- Reply to specific comments, questions, and/or concerns received relating to the project
- Document the water and wastewater servicing strategy study and public consultation process
- Develop a capital implementation program for the preferred servicing strategy for input into the Development Charge Bylaw and Allocation process
- File the documentation on public record for a 30-day review period

PUBLIC INFORMATION CENTRE #2

DISPLAY BOARDS



Serving our Communities and our Environment
Sustainable Halton Water & Wastewater Master Plan

Welcome to Public Information Centre #2

- Please sign in on the sheet provided.
- You are invited to review the display boards.
- Our representatives will be pleased to discuss the project with you and are available to answer any questions you may have.
- Comment sheets are provided at the front.
- Please place your completed comment sheets in the Comment Box or send them to either of the following by **March 11, 2011**:

Mr. David Simpson

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1
Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel

AECOM
105 Commerce Valley Drive West
Markham, ON L3T 7W3
Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com



Objectives

Master Plan Study

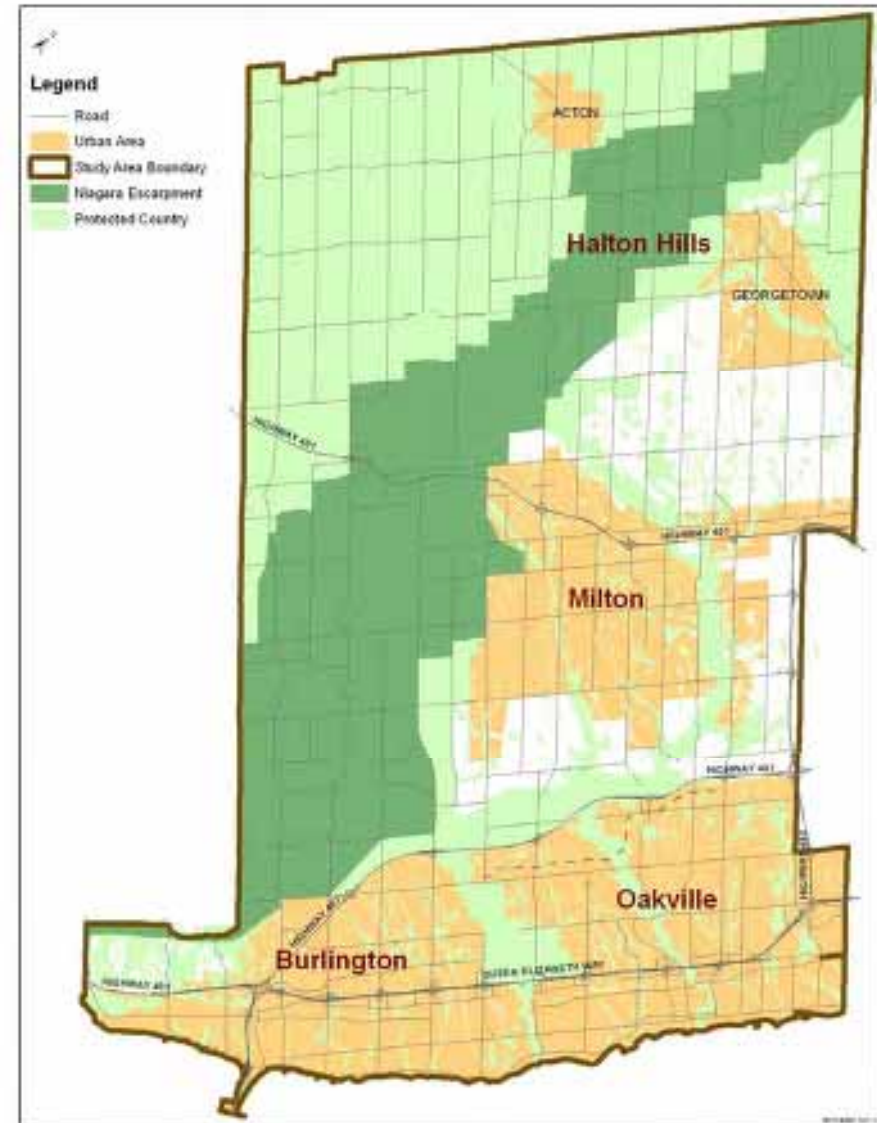
A Servicing Master Plan is a long range planning document that integrates infrastructure requirements for existing and future land use with environmental assessment planning principles. Its purpose is to:

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and businesses in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for approx. 732,000 people & 381,000 jobs by 2031 (*The population data and forecasts are consistent with the official Census figures as reported by Statistics Canada, not adjusted for undercoverage. It should be noted that the un-adjusted counts, sometimes referred to as "Census population" (versus "total population" referring to the adjusted counts as used in the Growth Plan), remain as the official population counts and are never updated to include the under-count.*)
 - A growth of approx. 257,000 people & 137,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Complete a capital implementation program for the preferred servicing strategy.

Public Information Centre #2

The purpose of a Public Information Centre (PIC) is to provide interested and/or potentially affected stakeholders with an opportunity to participate in the planning process. The purpose of this second PIC is to:

- Outline key water and wastewater servicing constraints/opportunities
- Present alternative servicing solutions
- Present preliminary preferred servicing strategy
- Receive public input and answer questions.

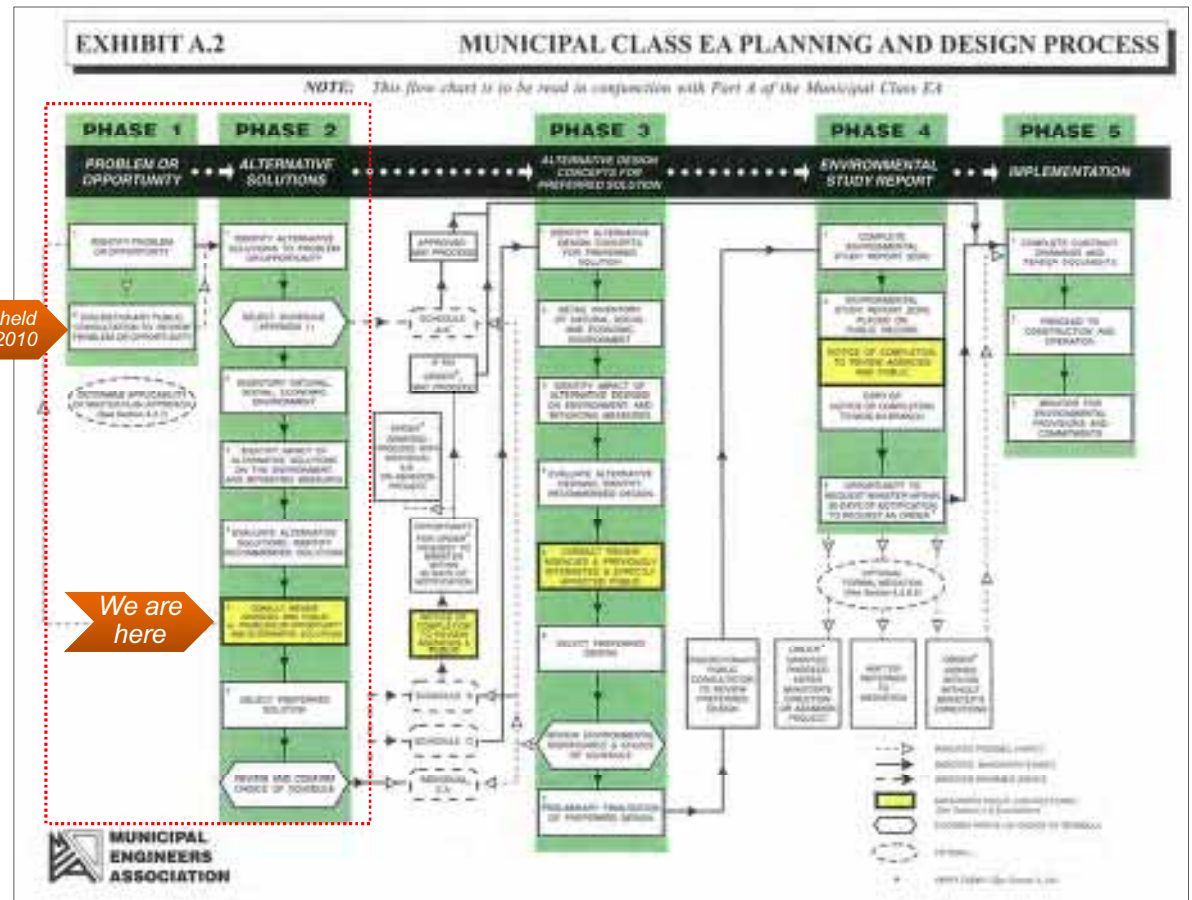


Municipal Class Environmental Assessment Process and Master Plan Context

- Master Plan will be filed under Approach #2 under the MEA Class EA Approach for Master Planning, satisfying the following:
 - Meeting Phases 1 and 2 of the Class EA process but also fulfills requirements for Schedule A, A+ and B projects
 - Providing supporting documentation for any Schedule C projects, however these projects would still need to meet Phases 3 and 4 prior to filing for public review
- In the context of a Master Plan, a high level review of servicing with a conceptual/order of magnitude accuracy of costs will be carried out.

PICs held May 2010

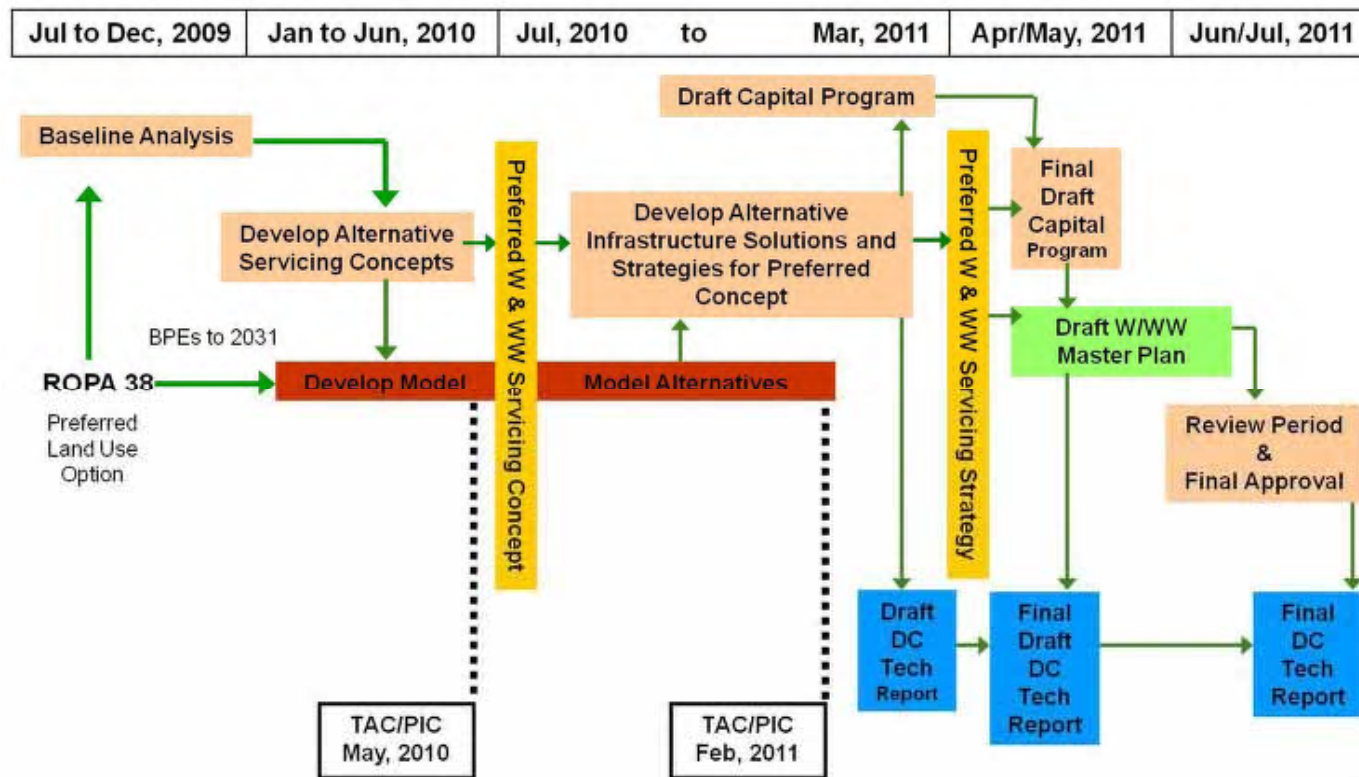
We are here



Master Plan Deliverables and Timeline

The final Servicing Master Plan document will include:

- Preferred Servicing Strategy
- Capital Implementation Plan
- Clear identification of follow-on study requirements
- Clarity for support of follow-on Class EA studies
- Integrated documents under Sustainable Halton

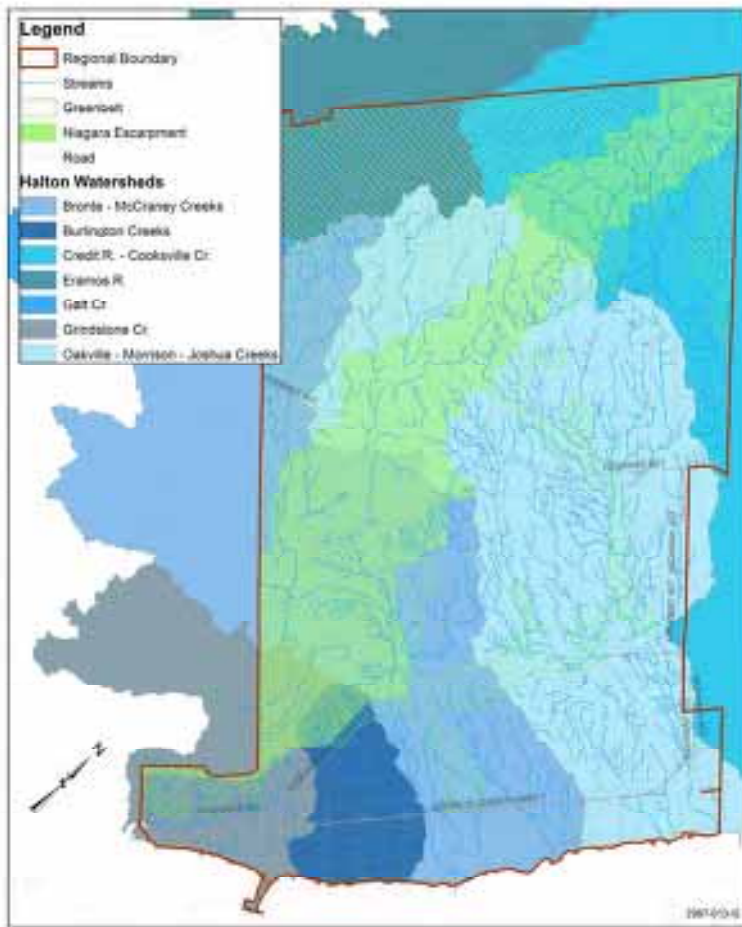


Related Halton Region Studies

- Regional Official Plan Amendment 38
- Transportation Master Plan
- Wastewater Pumping Station Master Plan
- Halton Tier 3 Groundwater Study
- Groundwater Supply Class EA's – Lindsay Court, Cedarvale and Prospect Park Well fields
- Acton and Georgetown Groundwater Capacity Study (under the W & WW Master Plan)
- Multiple Class EA's including Acton WWTP Expansion, Burlington-Oakville Interconnecting Watermains and Burloak WPP Expansion
- Water Efficiency Study and Program
- Halton Region Biosolids Master Plan

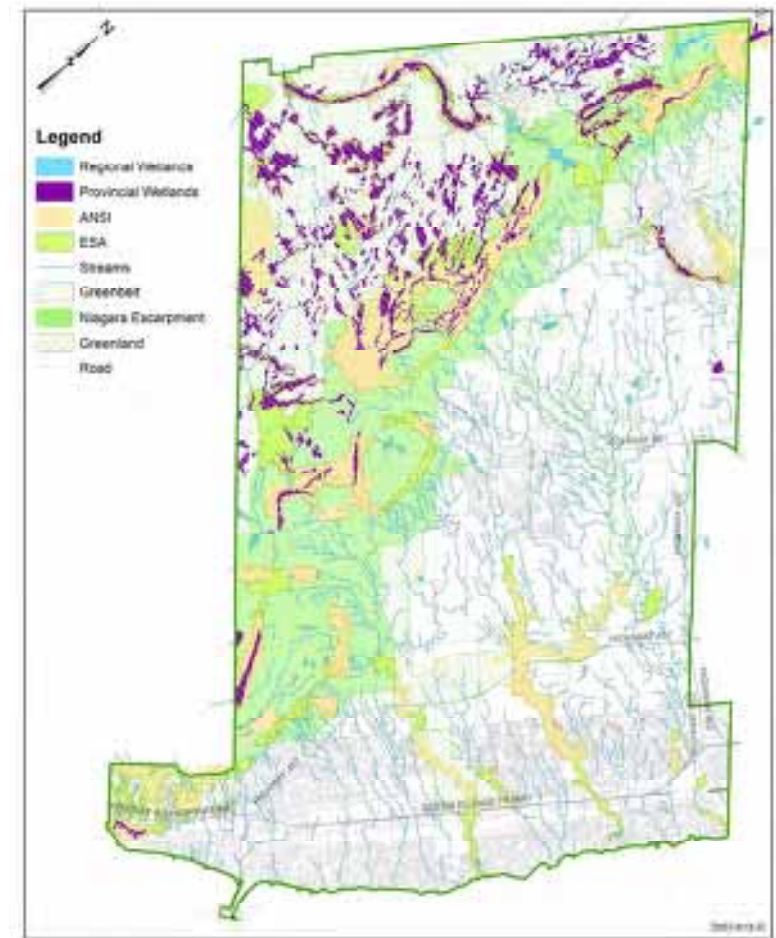
Existing Environmental Conditions

Watersheds

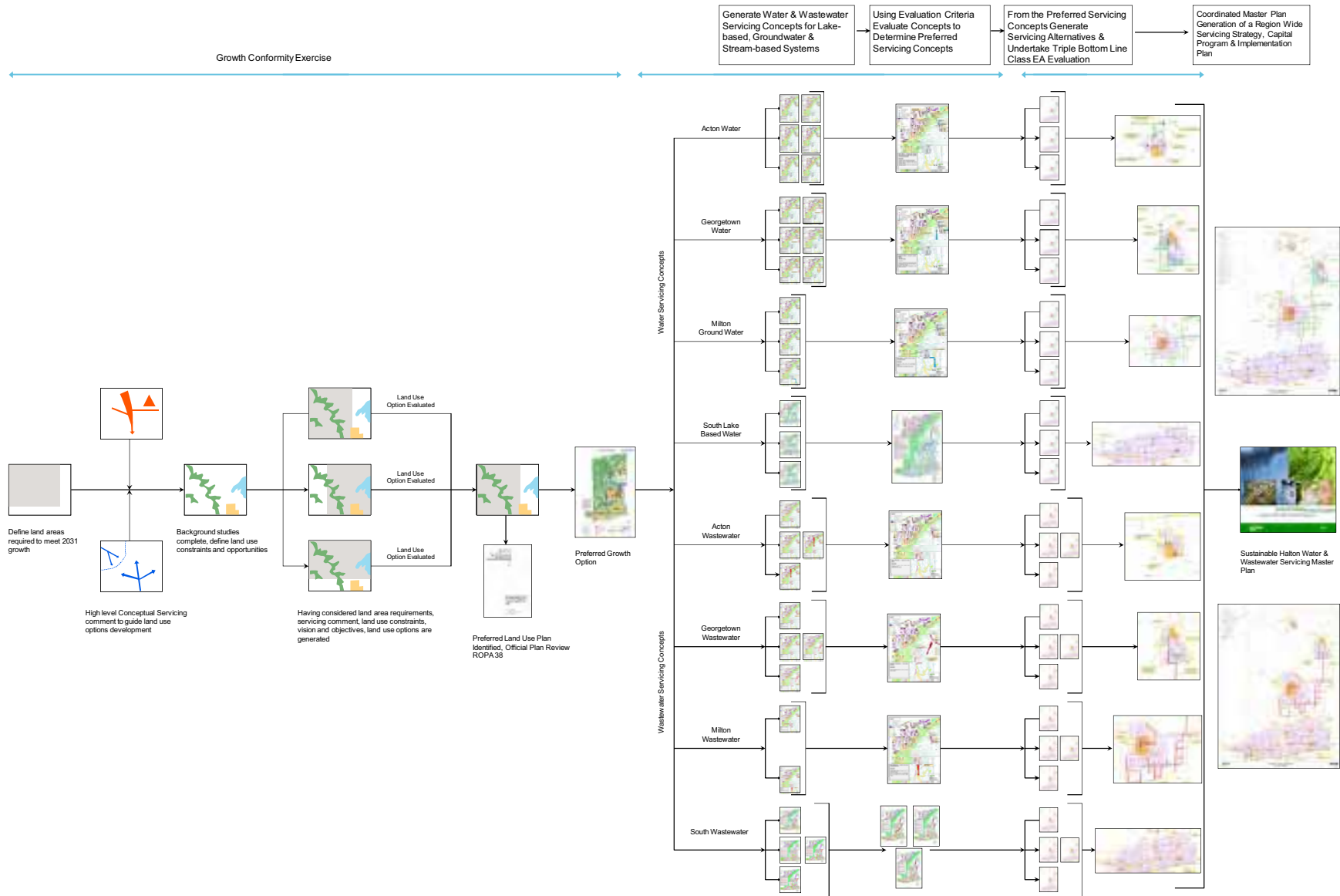


- Existing watersheds, environmental features and environmentally sensitive areas have been considered when evaluating water and wastewater servicing alternatives
- Preferred alignments and sites have been selected to avoid sensitive areas where possible
- Mitigative measures will be taken for those areas where water crossings and potential impacts may occur
- Appropriate construction techniques will be used to avoid water crossings and environmentally sensitive areas

Environmental Features



Sustainable Halton Planning and Decision-Making Process



Servicing Concepts Evaluation Criteria

Water Strategies Evaluation

- Evaluate Average Day, Maximum Day and Peak Hour flows and supply
- Consider system security and redundancy
- Maintain adequate levels of service (pressure/flow for domestic use and firefighting)
- Ensure operating considerations are addressed
- Continue to meet all MOE requirements
- Use the model to assess impact of new growth demands (based on projected BPEs) on system infrastructure:
 - Capacity
 - Pressure
 - Fire Flow
- Analyze pressure zone boundaries
- Develop/evaluate servicing strategies

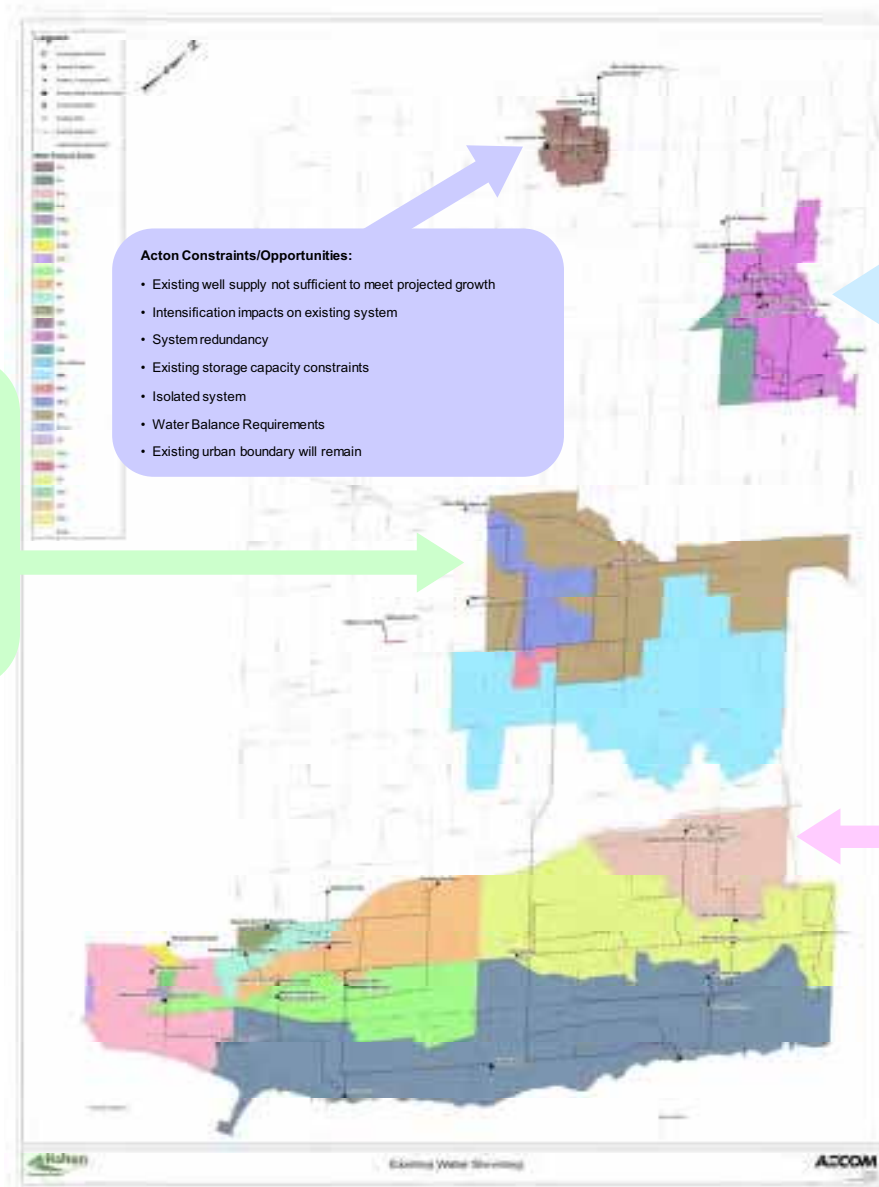
The framework for evaluating alternative water and wastewater servicing strategies was based on the **Twelve Point** Evaluation Criteria, consisting of:

1. Environmental Impacts
2. Socio-Economic Impacts
3. Regional Policies & Guidelines Impacts
4. Legal/Jurisdictional Impacts
5. Technical Impacts
6. Phasing Impacts
7. Sizing Impacts
8. Constructability Impacts
9. Build Out Impacts
10. Implementation & Operability Impacts
11. Servicing Integration Impacts
12. Financial Impacts

Wastewater Strategies Evaluation

- Continue to meet all MOE requirements, including effluent quality standards
- Evaluate growth and inflow and infiltration
- Consider system security and redundancy
- Ensure that operating considerations are addressed
- Use the model to assess impact of new growth flows (based on projected BPEs) on system infrastructure:
 - Capacity
 - d/D
- Develop/evaluate servicing strategies

Water Infrastructure and Servicing Issues



Milton Constraints/Opportunities:

- Existing well supply not sufficient to meet current & projected growth
- Intensification impacts on existing system
- Constraints:
 - Walker's Line Wells – limited supply, not meeting PTTW, surge tank/watermain rehabilitation required,
 - Kelso Water Plant – optimization required to increase production, not meeting PTTW
- Groundwater system servicing redundancy
- Political / public perception of maintaining groundwater service area
- Pressure zone boundary adjustments

Acton Constraints/Opportunities:

- Existing well supply not sufficient to meet projected growth
- Intensification impacts on existing system
- System redundancy
- Existing storage capacity constraints
- Isolated system
- Water Balance Requirements
- Existing urban boundary will remain

Georgetown Constraints/Opportunities:

- Existing well supply not sufficient to meet growth
- Intensification impacts on existing system
- System Redundancy
- Existing storage constraints (operational & quantity)
- Hamlets servicing requirement
- Expanded urban boundary (large greenfield growth)
- Water Balance Requirements
- Political / public perception of maintaining groundwater service area
- Interregional water connection

South Halton Constraints/Opportunities:

- Intensification impact on existing system
- Impact of transferring areas in Milton and Georgetown to lake based system
- Treatment capacity vs. projected demands
- Pressure zone boundary adjustments
- System redundancy
- West to east water transfer
- Build-out servicing
- Operational constraints in existing Burlington area
- Interregional water connections

Burlington Oakville

Lake Based Servicing Max Day Demand Projections (MLD)

Service Area	2011	2016	2021	2026	2031
Lake Based Burlington Oakville	264.41	287.04	306.25	321.8	337.15
Lake Based Georgetown	0	0	7.4	12.5	18.0
Lake Based Milton	47.98	77.39	107.42	136.52	163.22
Total Lake Based	312.39	364.43	421.07	470.82	518.37

Existing Plant Capacities (MLD)

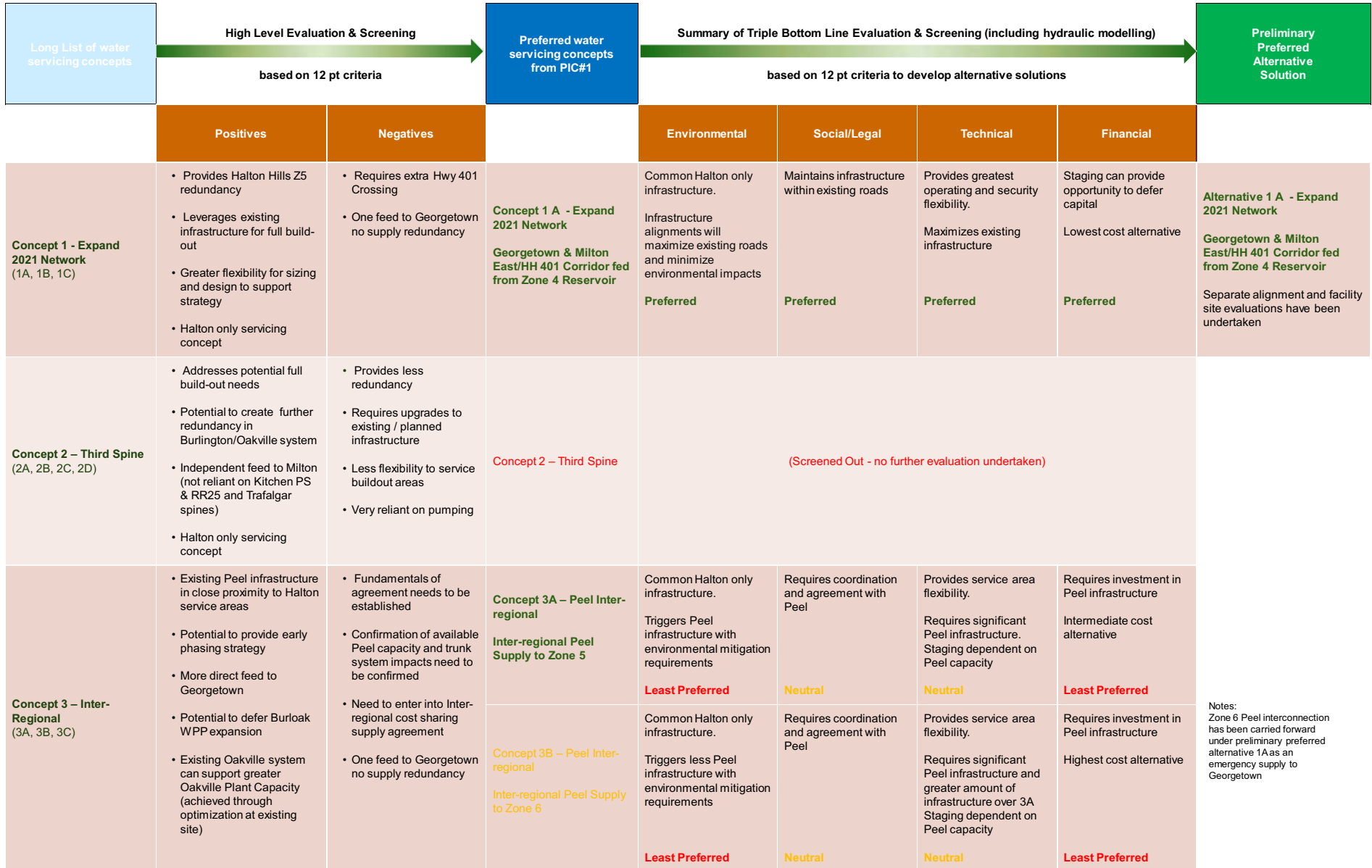
Existing Treatment Capacity	2011
Burlington WTP	268.0
Oakville WTP	109.0
Burloak WTP	55.0
Total	432.0

Water Efficiency: A Four-Pronged Approach

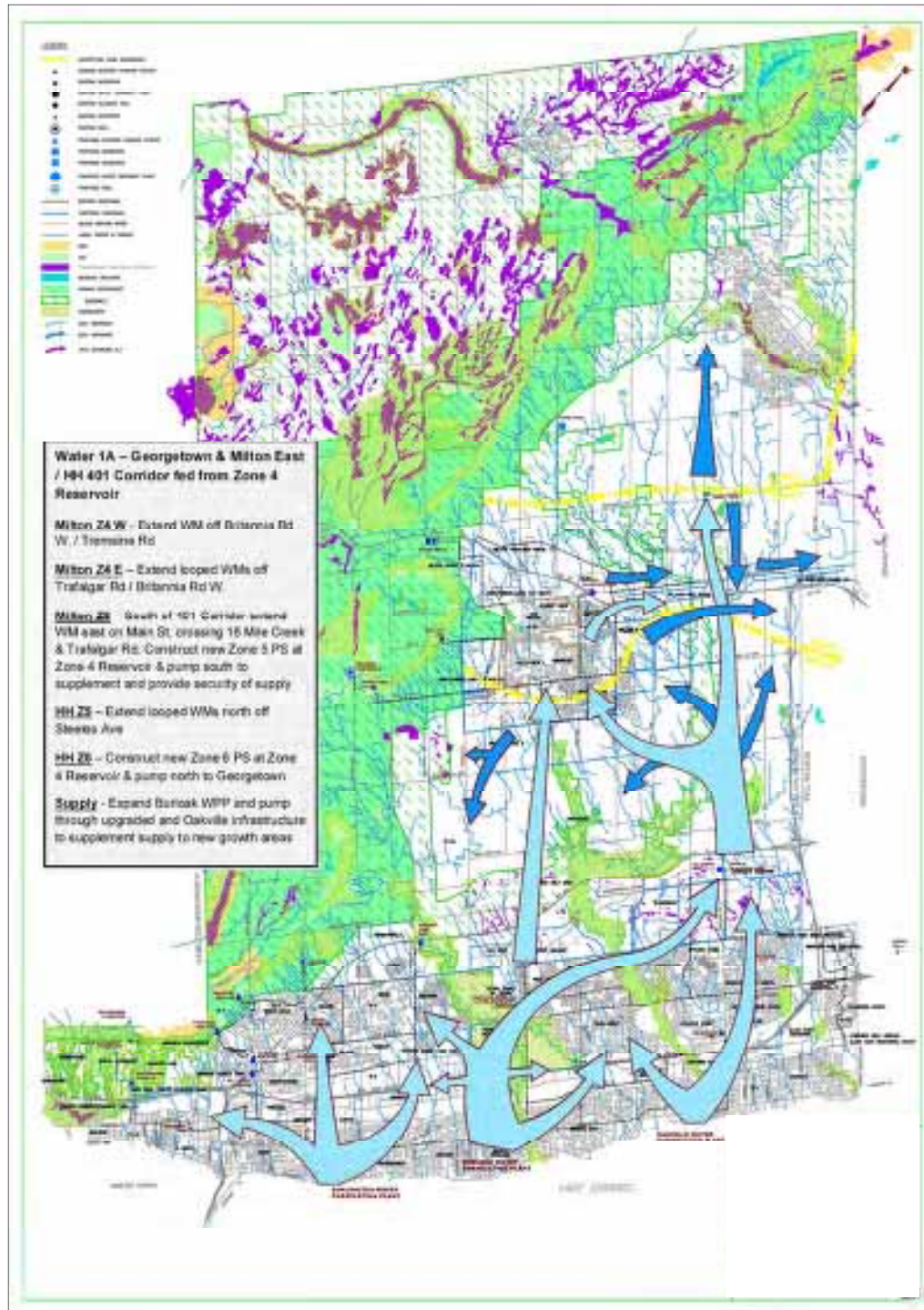
- Part of the overall water strategy includes Halton Region's ongoing water efficiency program which incorporates:
 - Technical Measures (e.g. System Leak Detection)
 - Regulatory Measures (e.g. Waterworks By-Law)
 - Financial Measures (e.g. Rebates, Rate Structure)
 - Marketing, Community Outreach & Education
- Halton Region is targeting a 5% reduction in water use



Decision Making Process - Water

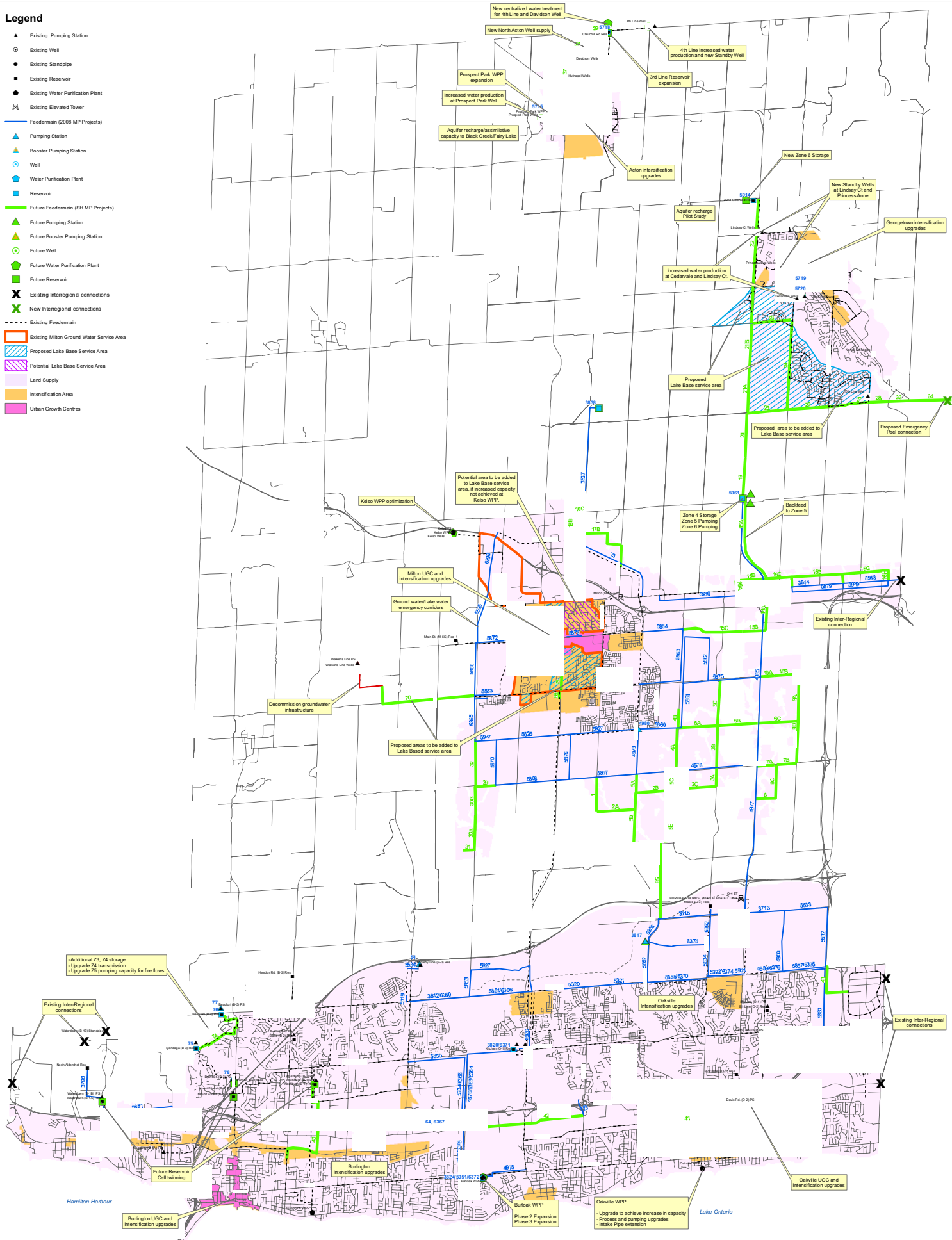


South Halton Preliminary Preferred Water Servicing Strategy



Legend

- ▲ Existing Pumping Station
- Existing Well
- Existing Standpipe
- Existing Reservoir
- Existing Water Purification Plant
- ⚙ Existing Elevated Tower
- Feedermain (2008 MP Projects)
- ▲ Pumping Station
- ▲ Booster Pumping Station
- Well
- Water Purification Plant
- Reservoir
- Future Feedermain (SH MP Projects)
- ▲ Future Pumping Station
- ▲ Future Booster Pumping Station
- Future Well
- Future Water Purification Plant
- Future Reservoir
- X Existing Interregional connections
- X New Interregional connections
- - - Existing Feedermain
- Existing Milton Ground Water Service Area
- Proposed Lake Base Service Area
- Potential Lake Base Service Area
- Land Supply
- Intensification Area
- Urban Growth Centres



Preliminary Preferred Water Servicing Strategy

Wastewater Infrastructure and Issues

Acton Constraints/Opportunities:

- Existing treatment capacity not sufficient to meet projected growth
- High inflow & infiltration
- Isolated service area
- Planned growth is within existing urban boundary (smaller scale growth)
- Stream based assimilative capacity criteria restrictive for expansion
- Need to consider minimum flows in receiving streams and water balance
- Potential impact on existing infrastructure with additional intensification flow

Milton Constraints/Opportunities:

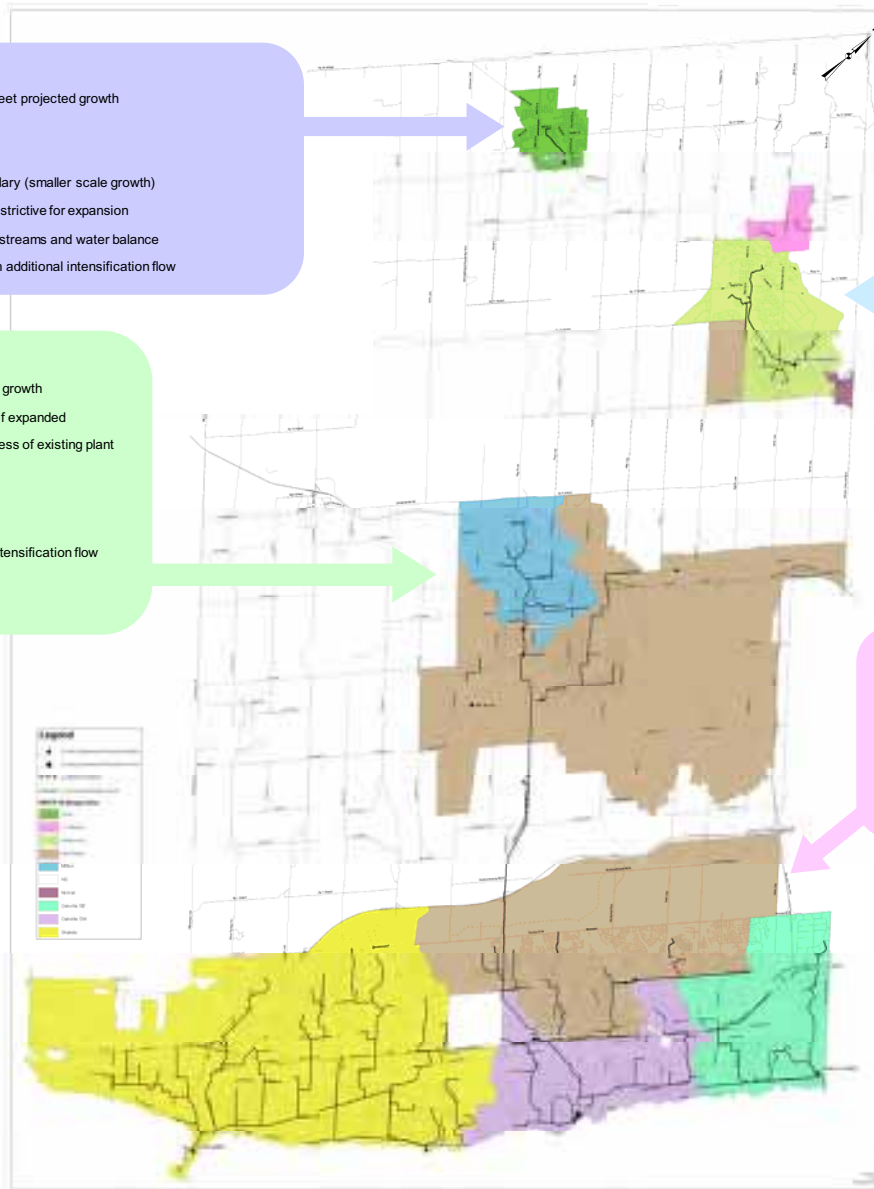
- Existing treatment capacity not sufficient to meet projected growth
- Stream based stringent effluent criteria requires to be met if expanded
- Existing & planned infrastructure sized to divert flow in excess of existing plant capacity
- Milton experiencing majority of post 2021 new growth
- Divided drainage areas due to environmental features
- Potential impact on existing infrastructure with additional intensification flow
- Growth is distributed
- Phasing challenges

Georgetown Constraints/Opportunities:

- Existing treatment capacity not sufficient to meet 2031 flows
- Isolated system
- Topographical constraints may require pumping
- Large, Greenfield service area growth
- Potential impact on existing infrastructure with additional intensification flow
- Stream based stringent effluent criteria requires to be met if expanded

South Halton Constraints/Opportunities:

- Potential impact on existing infrastructure with additional intensification flow
- Continued operation & maintenance cost of existing collection system
- High operation, maintenance and life cycle costs with continued operation of South Halton wastewater pumping stations
- Treatment capacity vs. projected flows
- Skyway WWTP tertiary treatment required to support RAP targets



Burlington Oakville

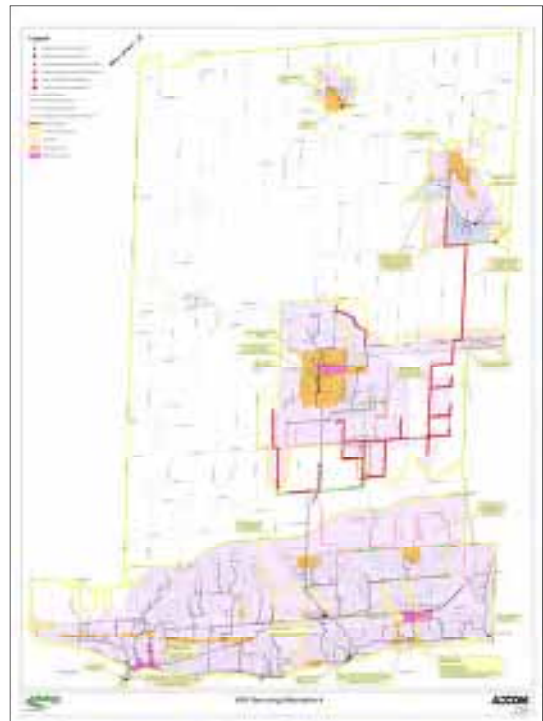
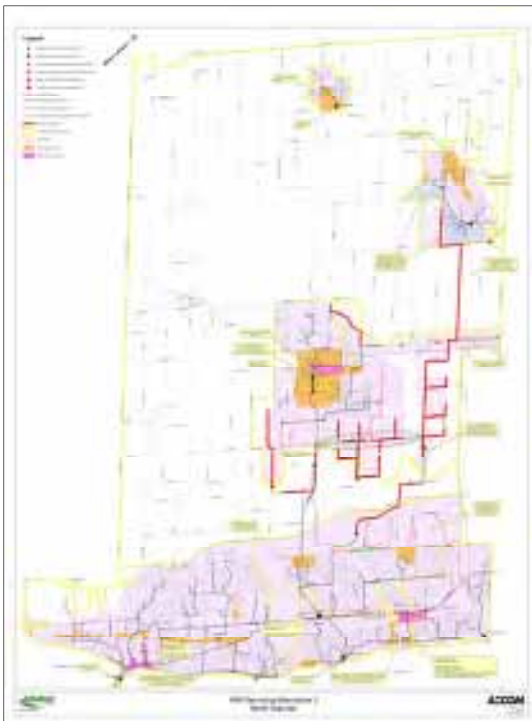
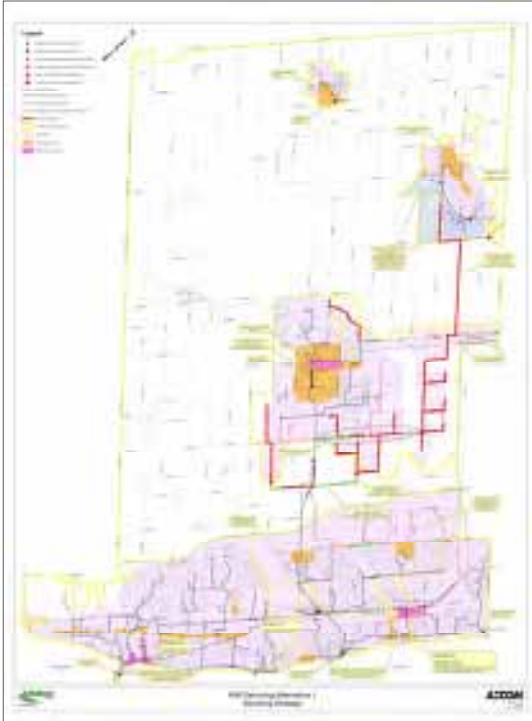
South Halton Flow Projections and Existing Plant Capacities (MLD)

Drainage Area	Ex. Cap	2009	2011	2016	2021	2026	2031
Mid Halton ¹	75.0	49.07	55.62	76.83	108.72	136.65	162.47
Oakville SE	31.8	26.69	26.59	27.03	26.93	27.01	27.79
Oakville SW	45.4	35.79	35.76	37.60	40.67	42.84	45.04
Skyway ²	118.0	120.35	122.90	126.17	128.26	129.80	131.36
TOTAL	270.2	231.90	240.87	267.64	304.57	336.30	366.66

¹ Mid-Halton WWTP expansion currently underway.

² Skyway WWTP expansion currently underway.

South Halton Wastewater Servicing Alternatives



Oakville Urban Growth Centre (UGC) Wastewater Servicing Evaluation

Oakville UGC Alternative 1 – New WWPS/FM to pump UGC flows across 16 Mile Creek and QEW to Mid Halton WWTP

- Lower initial capital cost
- High long term O & M and life cycle costs



Oakville UGC Alternative 2 – New Rebecca St Sewer Twin from south of Oakville UGC to Oakville SW WWTP

- High capital cost
- Constructability constraints along Rebecca St



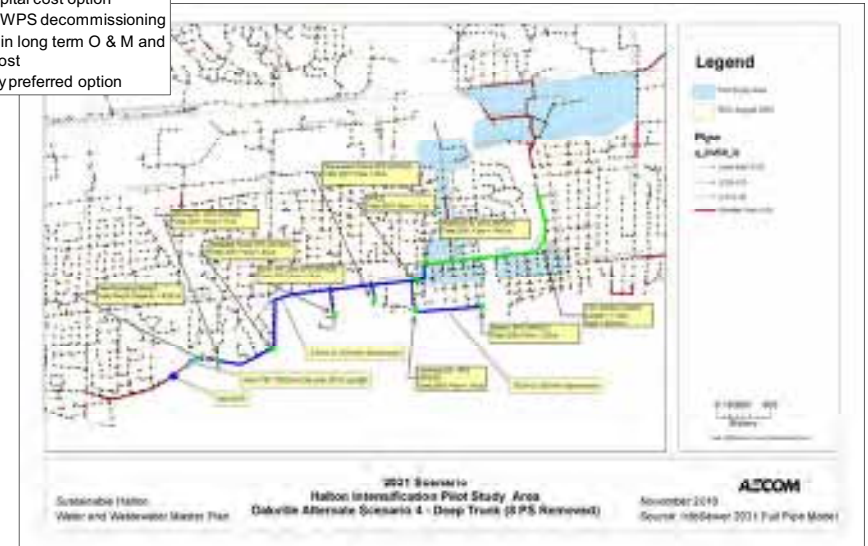
Oakville UGC Alternative 3 – New gravity sewer diversion to Oakville SE WWTP

- Impact on constrained capacity at Oakville SE WWTP
- Could leverage trunk sewer recommendation under WWPS Master Plan

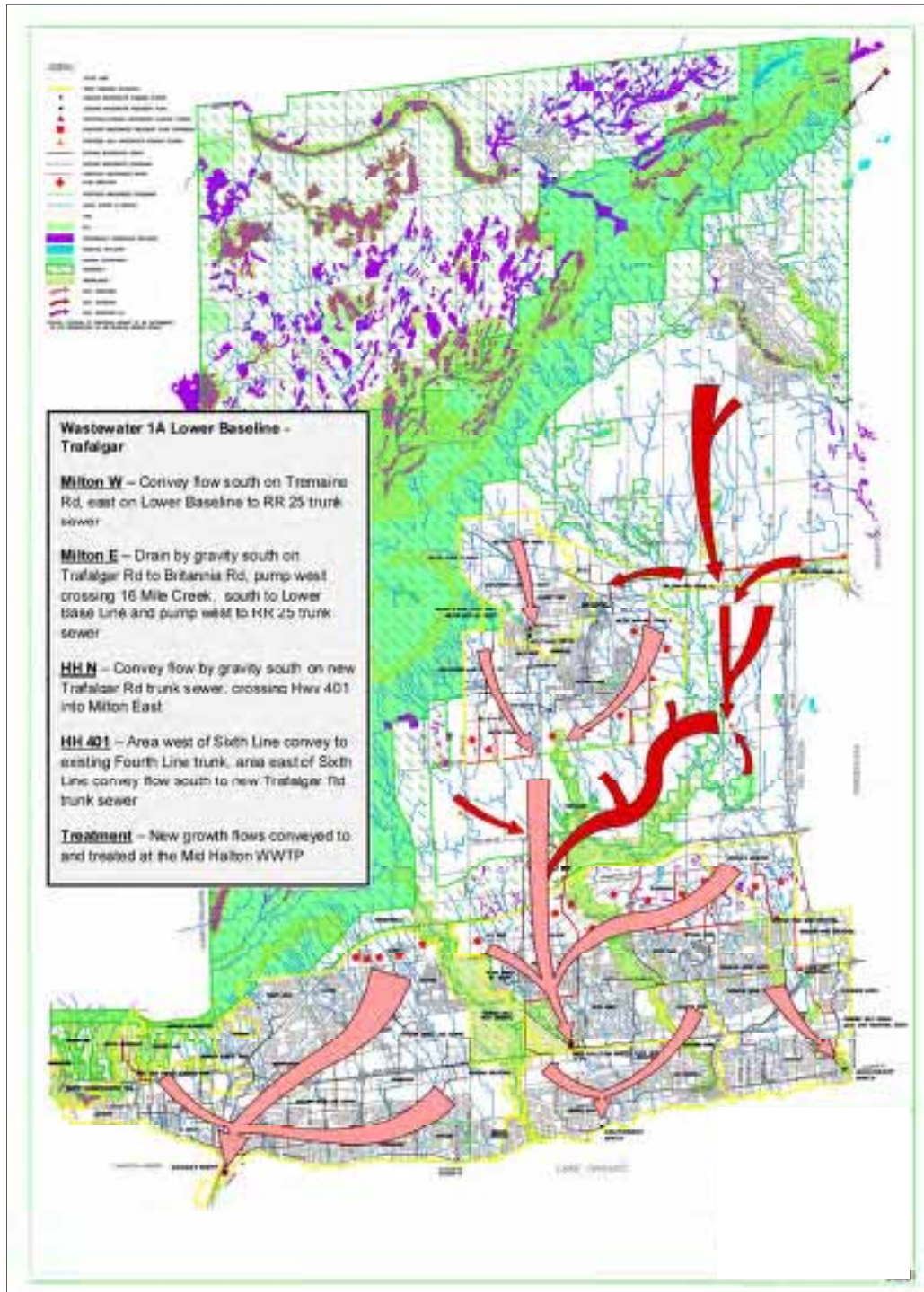


Oakville UGC Alternative 4 – New deep trunk sewer from south of UGC to Oakville SW WWTP

- Highest capital cost option
- Multiple WWPS decommissioning
- Reduction in long term O & M and life cycle cost
- Preliminary preferred option

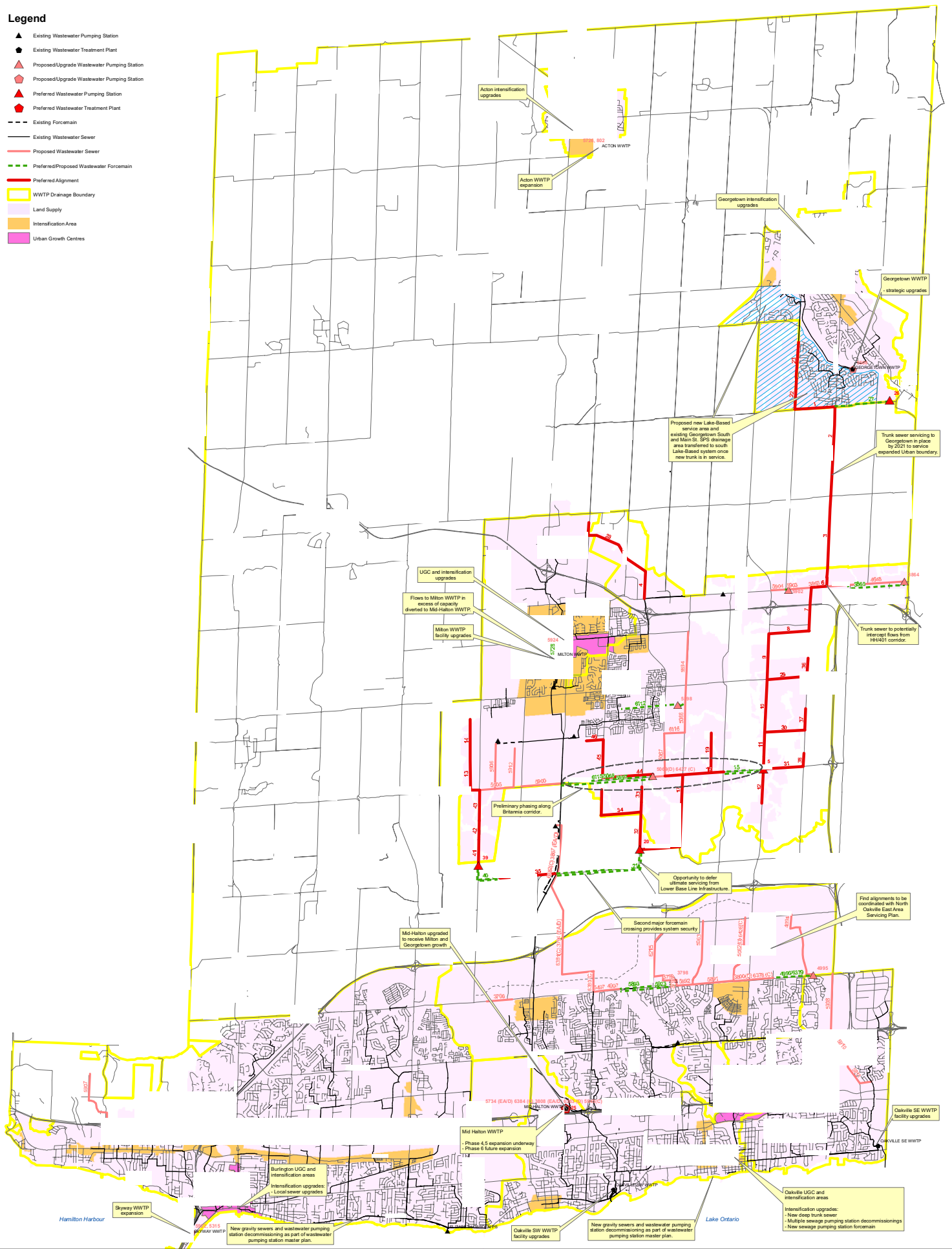


South Halton Preliminary Preferred Wastewater Servicing Strategy



Legend

- ▲ Existing Wastewater Pumping Station
- Existing Wastewater Treatment Plant
- ▲ Proposed/Upgrade Wastewater Pumping Station
- ▲ Proposed/Upgrade Wastewater Pumping Station
- ▲ Preferred Wastewater Pumping Station
- ▲ Preferred Wastewater Treatment Plant
- - - Existing Foremain
- - - Existing Wastewater Sewer
- - - Proposed Wastewater Sewer
- - - Preferred/Proposed Wastewater Foremain
- - - Preferred Alignment
- ▭ WWTP Drainage Boundary
- ▭ Land Supply
- ▭ Intensification Area
- ▭ Urban Growth Centres

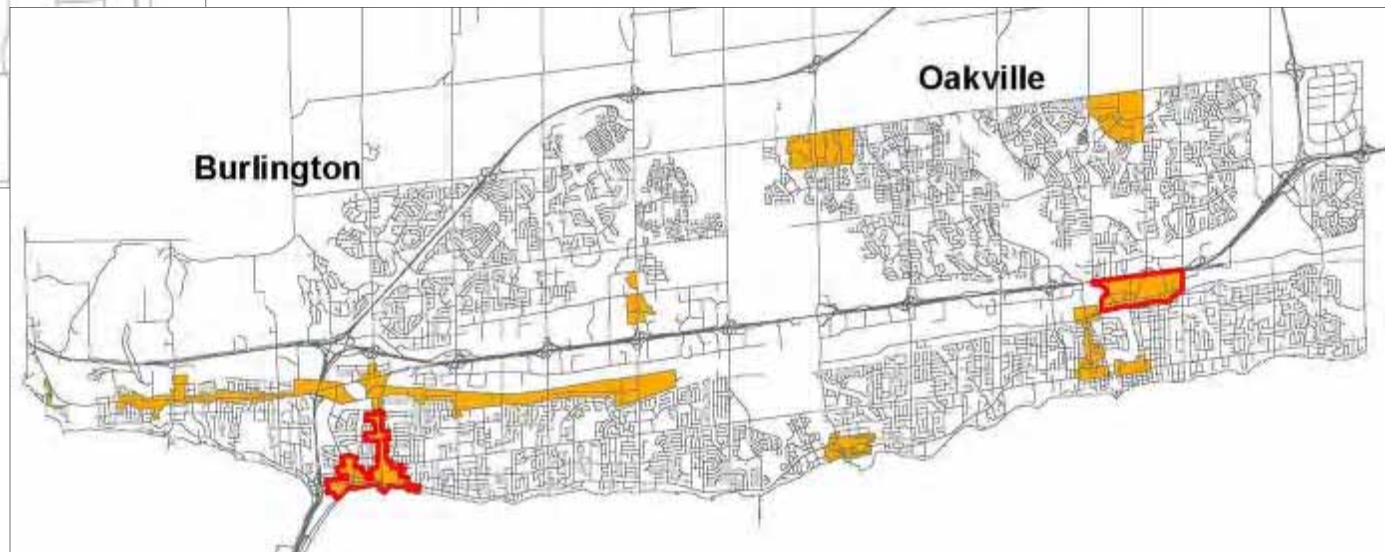


Preliminary Preferred Wastewater Servicing Strategy

Intensification Areas and Urban Growth Centres



- Target 40% growth within existing built boundary
- Intensification analysis included a review of potential impact to existing local and trunk level infrastructure
- Trunk level projects, such as pumping station, watermain and sanitary sewer upgrades, triggered by intensification will be included in the Master Plan's Preferred Strategy Capital Program
- Local level projects will be grouped by area to capture future impact on local servicing



Intensification Projects

Acton Water Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$2.12 M

Acton Wastewater Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$3.95 M

Georgetown Water Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$3.43 M

Georgetown Wastewater Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$5.82 M

Burlington Water Capital Program

Tier 1 Triggered Projects: \$9.72 M
 Tier 2 Potentially Triggered Projects: \$2.25 M

Burlington Wastewater Capital Program

Tier 1 Triggered Projects: \$6.80 M
 Tier 2 Potentially Triggered Projects: \$7.12 M

Oakville Water Capital Program

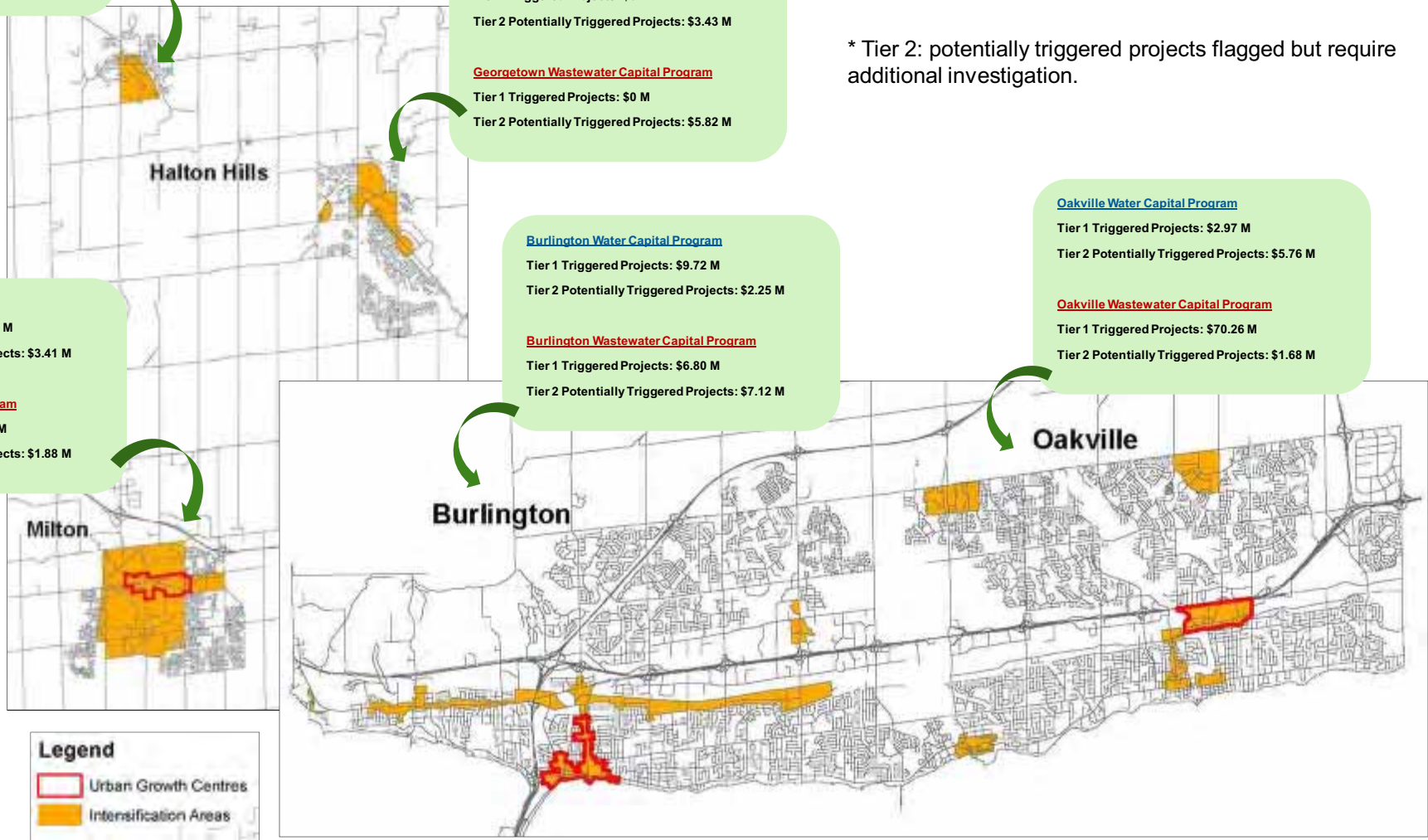
Tier 1 Triggered Projects: \$2.97 M
 Tier 2 Potentially Triggered Projects: \$5.76 M

Oakville Wastewater Capital Program

Tier 1 Triggered Projects: \$70.26 M
 Tier 2 Potentially Triggered Projects: \$1.68 M

• Tier 1: triggered projects based on exceeding existing level of service.

* Tier 2: potentially triggered projects flagged but require additional investigation.



Preliminary Cost Estimates

- Preliminary cost estimates have been developed for the preliminary preferred strategies
- It is anticipated that there will be refinements to the servicing strategies based on feedback from consultation. These refinements are also anticipated to impact the cost estimates.
- The preliminary costs estimates presented below are for information purposes and represent “order of magnitude” cost estimates.
- The costs will be updated for the final documentation and will feed into the Region of Halton Development Charges Update process.

Water

	2011 Sustainable Halton Master Plan (in 2012 Dollars)
2021 Program	\$700M - \$800M
2031 Program	\$450M - \$500M
Intensification	\$30M - \$35M
Strategic Program for Existing System	\$300M - \$350M (Benefit to existing and future growth)

Includes North and South Halton

Wastewater

	2011 Sustainable Halton Master Plan (in 2012 Dollars)
2021 Program	\$625M - \$725M
2031 Program	\$275M - \$325M
Intensification	\$75M - \$125M
WWPS MP	\$125M - \$175M
Strategic Program for Existing System	\$275M - \$325M (Benefit to existing and future growth)

Includes North and South Halton

Bulk Water Servicing Strategy

- Performed a comprehensive review of existing and potential new bulk water stations based on:
 - asset condition
 - water usage
 - servicing
 - traffic impact/accessibility
 - proximity to growth areas
 - land requirements/ownership
- Preliminary preferred bulk water servicing strategy has been developed based on the above criteria

HALTON REGION BULK WATER STATION EVALUATION									
Municipality	Bulk Water Station (BWS)	Address/Area	Permanent/Portable Bulk Water Units	Preferred Option Colour Coding	Proposed Works	Legal/Jurisdictional	Transportation	Customer Usage	Social Impacts
Existing Bulk Water Stations									
Georgetown	Todd Rd. BWS	13 Todd Rd.	Permanent	Green	Relocate to the New Georgetown Water Tower; upgrade to existing (2007)	Existing site owned by Halton Region	Low traffic disruption; close proximity to HWY 7	Low	Within existing IC area and future intensification growth area; close proximity to existing residential growth area
Milton	Lawson Rd. BWS	8333 Lawson Rd.	Portable	Red	Relocate to BWS1, BWS3 or BWS4	Existing site owned by Town of Milton (within the road right-of-way)	High traffic disruption to local business zone	High	Within existing IC area; close proximity to IC and future intensification growth area
	Highway 10 BWS	123 Reisinger Rd.	Permanent	Green	Relocate to BWS3 or BWS6	Existing site owned by Town of Milton (within the road right-of-way)	Low traffic disruption	Low	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
Caledonia	Santa Maria BWS	749 Santa Maria Blvd.	Portable	Red	Relocate to BWS1, BWS3, BWS4 or BWS10	Existing site owned by Town of Milton (within the road right-of-way)	High traffic disruption; close proximity to HWY 10	High	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
	Burnhamthorpe Rd. BWS	4000 Burnhamthorpe Rd.	Permanent	Green	Remain in current location; upgrade existing existing station	Existing site owned by Halton Region	Low traffic disruption; close proximity to HWY 10	High	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
Burlington	UMR BWS	2278 UMR Rd.	Permanent	Green	Relocate to BWS13 or BWS12	Existing site owned by Halton Region	Moderate traffic disruption; close proximity to HWY 10	Low	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
	Harrison Cr. BWS	3039 Harrison Cr.	Portable	Red	Relocate to BWS13 or BWS11	Existing site owned by City of Burlington (within the road right-of-way)	High traffic disruption; close proximity to HWY 10	High	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
	Guelph Line BWS	1188 Guelph Line	Permanent	Green	Remain in current location	Existing site owned by Halton Region	Moderate traffic disruption; high traffic volumes along Guelph Line	Moderate	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
Burlington	Plains Rd. BWS	1841 Plains Rd. W.	Permanent	Green	Relocate to current location; upgrade existing existing station	Existing site owned by City of Burlington (within the road right-of-way)	Low traffic disruption; close proximity to HWY 10	High	Within existing residential area; future intensification growth area; close proximity to existing residential growth area
	Acton	BWS1	All Future New North Acton will be along HWY 10, between Hwy 10 and Hwy 7	Portable	Green	New site to be developed in future	Land acquisition required	Low traffic disruption	High
Potential New Bulk Water Stations									
Georgetown	BWS2	At Future Local 1 Relocation, along Trappier Rd. between Hwy 7 and Hwy 10, close to Hwy 10	Permanent	Green	Potential new location for Lawson	Land acquisition required	Low traffic disruption; potential to use future intensification	High	All future well sites close proximity to existing IC area and future intensification growth area
Milton	BWS3	Along Highway 10, between Victoria Church Rd. and Todd Rd.	Permanent	Yellow	Potential new location for Lawson	Land acquisition required	Low traffic disruption; close proximity to HWY 10	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS4	Along Highway 10, between Trappier Rd. and Hwy 10	Permanent	Red	Potential new location for Lawson	Land acquisition required	Low traffic disruption; close proximity to HWY 10	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS5	At Future Waterworks Pump Station, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Green	Potential new location for Highway 10	Land acquisition required	Low traffic disruption	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS6	At Future Waterworks Pump Station, along Highway 10, between Hwy 10 and Hwy 7	Permanent	Yellow	Potential new location for Highway 10	Land acquisition required	Low traffic disruption	High	All future well sites close proximity to existing IC area and future intensification growth area
Caledonia	BWS7	At Existing Waterworks Pump Station, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Red	Potential new location for Santa Maria	Existing site owned by Halton Region	Low traffic disruption	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS8	At Existing Waterworks Pump Station, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Red	Potential new location for Santa Maria	Existing site owned by Halton Region	Low traffic disruption	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS9	Along Highway 10, between Highway 10 and Hwy 10	Permanent	Green	Potential new location for Santa Maria	Land acquisition required	Low traffic disruption	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS10	At Existing Water Management Station, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Yellow	Potential new location for Santa Maria	Existing site owned by Halton Region	Low traffic disruption; potential to use future intensification	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS11	At Existing Caledonia Public Works Yard, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Yellow	Potential new location for UMR	Land acquisition required	Low traffic disruption; close proximity to HWY 10	High	All future well sites close proximity to existing IC area and future intensification growth area
Burlington	BWS12	At Existing Caledonia Public Works Yard, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Yellow	Potential new location for UMR	Land acquisition required	Low traffic disruption; close proximity to HWY 10	High	All future well sites close proximity to existing IC area and future intensification growth area
	BWS13	At Existing Waterworks Pump Station, along Hwy 10, between Hwy 10 and Hwy 7	Permanent	Red	Potential new location for Harrison	Existing site owned by Halton Region	High traffic disruption; grade separation (overpass)	High	All future well sites close proximity to existing IC area and future intensification growth area
Burlington	BWS14	South of Hwy 10, between Highway 10 and Hwy 10	Permanent	Green	Potential new location for Harrison	Land acquisition required	Low traffic disruption; close proximity to HWY 10	High	Within existing IC area

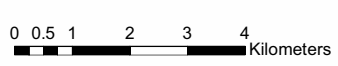
Legend

- Regional Roads
- Major Roads
- Highways
- Watermains
- Water - Virtual Flow
- ESA (2006)
- Intensification Area
- Urban Growth Centres
- Existing Local Official Plan Designated Employment Lands
- Proposed Residential & Mixed Use Area
- Proposed Employment Lands
- Urban Areas
- Municipal Boundary
- Existing Bulk Water Station
- Temporary
- Permanent
- Water Purification Plant
- Booster Station
- Reservoir
- Booster Station & Reservoir
- Wastewater Pumping Station
- Municipal PW Yard
- Proposed Bulk Water Station
- Stormwater Pumping Station
- Regional PW Yard

Date Created: February 2011
Source: Water Planning



REGIONAL MUNICIPALITY OF HALTON
ITS EMPLOYEES, OFFICERS, AND AGENTS
ARE NOT RESPONSIBLE FOR ANY ERRORS,
OMISSIONS OR INACCURACIES, WHETHER
DUE TO THEIR NEGLIGENCE OR OTHERWISE.



Next Steps

- Series of PIC #2
 - Feb 16 Oakville
 - Feb 17 Burlington
 - Feb 22 Milton
 - Feb 24 Halton Hills (in Georgetown)
- There has been recent feedback through Internal Technical Advisory Committees (InTAC) and External Technical Advisory Committees (ExTAC). We also anticipate good feedback through the series of PICs. This feedback may result in needed refinements to the servicing strategies. These refinements may impact infrastructure location and overall strategy capital costing as shown in the PICs. The final program will be reflected in the final documentation.
- The project team will:
 - compile information received from you and other stakeholders to finalize the servicing strategies
 - respond to other comments and questions we receive
 - Document the water and wastewater servicing strategy study and public consultation process
 - File the documentation on public record for a 45 day review period
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
- Key follow on studies would be undertaken as required
- Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule

THANK YOU FOR ATTENDING

Milton

Groundwater & Lake Based Servicing Max Day Demand Projections (MLD)

Service Area	2011	2016	2021	2026	2031
Existing Groundwater Based	17.6	19.4	22.2	23.1	24.0
- Proposed transfer groundwater to lake based*	4.4	4.8	5.4	5.9	6.1
Future Groundwater Based	13.2	14.6	16.8	17.2	17.9
Existing Lake Based	43.6	72.6	102.1	130.6	157.1
- Proposed transfer groundwater to lake based*	4.4	4.8	5.4	5.9	6.1
Future Lake Based	48.0	77.4	107.4	136.5	163.2
TOTAL (Future)	61.2	91.9	124.2	153.7	181.1

* Proposed service areas to be transferred are highlighted on the Preliminary Preferred Water Servicing Strategy Map

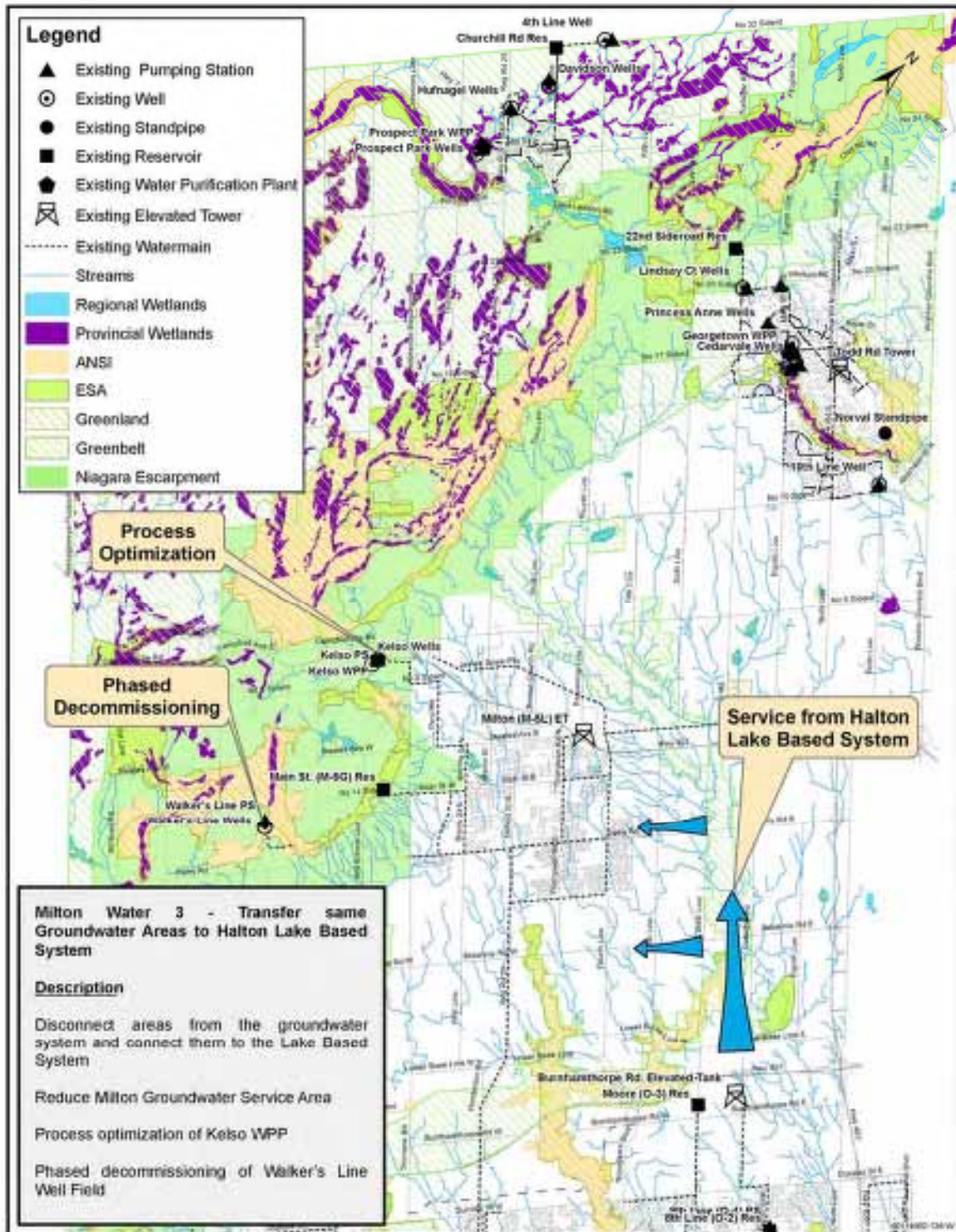
Existing Milton Groundwater Capacities (MLD)

Well System	Existing Treatment Capacity (MLD)
Kelso	15.9
Walker's Line	1.3
TOTAL	17.2

Decision Making Process – Milton Groundwater

Long List of water servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred water servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Walker's Line Well Field Upgrades	<ul style="list-style-type: none"> Maximizes existing well infrastructure Maintaining groundwater system based on some perception/feedback that groundwater is a preferred source 	<ul style="list-style-type: none"> Requires regular well maintenance Assessment for potential impact on local ecology and private wells is required Potential not to meet PTTW Does not meet future demand requirements 	<p>Concept 1 – Walker's Line Well Field Supply Upgrades</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concepts 2 and 3 for further evaluation</p>	<p>Potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Least Preferred</p>	<p>If capacity were available, meets feedback that maintaining groundwater system is a preferred source</p> <p>Preferred</p>	<p>Requires new well, surge tank, linear infrastructure and additional treatment (Significant rehabilitation required)</p> <p>Provides minimum security of supply</p> <p>Least Preferred</p>	<p>Requires substantial capital investment for minimal capacity gain</p> <p>Least cost effective</p> <p>High operation and maintenance costs</p> <p>Least Preferred</p>	<p>Phased decommissioning of Walker's Line well field once Kelso WPP optimization results are confirmed (Combined solution with Alternative 3)</p>
Concept 2 – Kelso WPP Upgrades	<ul style="list-style-type: none"> Maximizes existing well infrastructure Currently a higher yielding well field Maintaining groundwater system based on some perception/feedback that groundwater is a preferred source 	<ul style="list-style-type: none"> Requires regular well maintenance Assessment for potential impact on local ecology and private wells is required Potential not to meet PTTW Does not meet future demand requirements 	<p>Concept 2 - Kelso WPP Upgrades</p> <p>Concept screened out as a stand alone solution</p> <p>Concepts combined with Concepts 1 and 3 for further evaluation</p>	<p>Potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Least Preferred</p>	<p>If capacity were available, meets feedback that maintaining groundwater system is a preferred source</p> <p>Preferred</p>	<p>Increase in supply anticipated through optimization of plant although potential not to meet Permit to take Water (PTTW)</p> <p>Neutral</p>	<p>Requires moderate capital investment for small capacity gain</p> <p>Neutral</p>	<p>Solution based on optimization of the Kelso WPP to minimize transfer of existing groundwater service to lake-based. (Combined solution with Alternative 3)</p>
Concept 3 – Transfer Areas to Lake Based System	<ul style="list-style-type: none"> Provides security of supply Potential to minimize upgrades to existing supply system Opportunity to continue to maintain a groundwater service area or consider transfer of the full system Opportunity for staging. Lake based servicing already provided in Milton Addresses full build-out needs 	<ul style="list-style-type: none"> Requires operational plans to implement 	<p>Concept 3 – Transfer Areas to Lake Based System</p> <p>Concept considered a viable stand alone solution</p> <p>Concept combined with Concepts 1 and 2 for further evaluation</p>	<p>Maintains current water balance</p> <p>Preferred</p>	<p>High level of service maintained. May not meet feedback</p> <p>Allows historic Milton area to remain on groundwater and service future intensification demands</p> <p>Neutral</p>	<p>Provides greatest operating and security flexibility</p> <p>Preferred</p>	<p>Cost effective transfer strategy</p> <p>Lowest cost alternative</p> <p>Preferred</p>	<p>Alternative 3 – Transfer areas to lake based system</p> <p>Phased transfer of some existing groundwater service areas to lake-based servicing and maximize the size of the groundwater service area base on available capacity</p> <p>Solution based on optimization to gain capacity at Kelso WPP and decommissioning of Walker's Line well field.</p>

Milton Preliminary Preferred Water Servicing Strategy



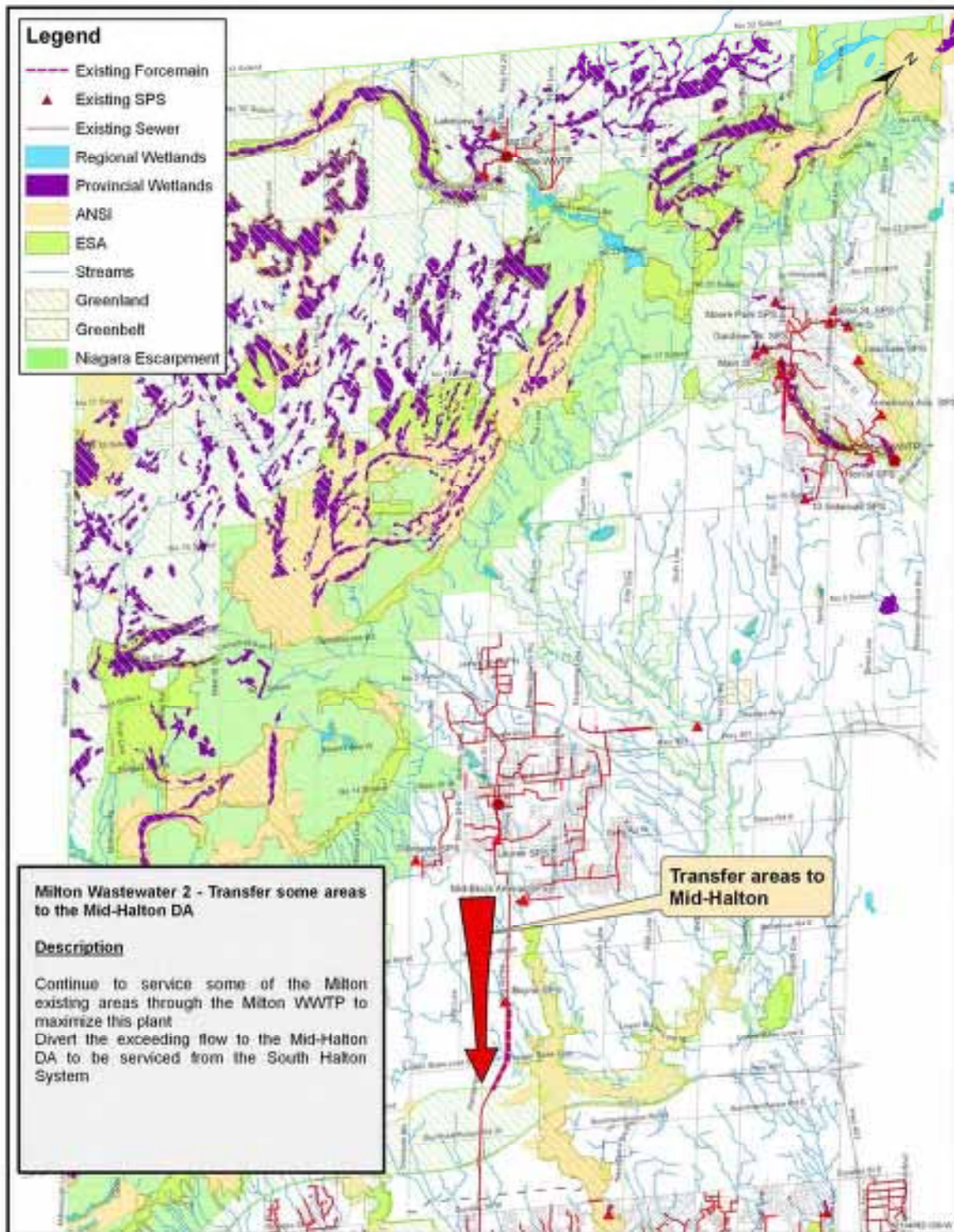
Milton

Milton Wastewater Flow Projections and Existing Plant Capacities (MLD)

Drainage Area	Ex. Cap	2011	2016	2021	2026	2031
Milton WWTP	18.50	15.38	18.21	18.50	18.50	18.50
Diverted flow from Milton WWTP to Mid-Halton WWTP		0.00	0.00	4.68	7.25	9.55
Mid-Halton WWTP (Oakville, Milton, Halton Hills)	75.00 ¹	55.62	76.83	108.72	136.65	162.47

¹ Mid-Halton WWTP expansion currently underway

Milton Preliminary Preferred Wastewater Servicing Strategy



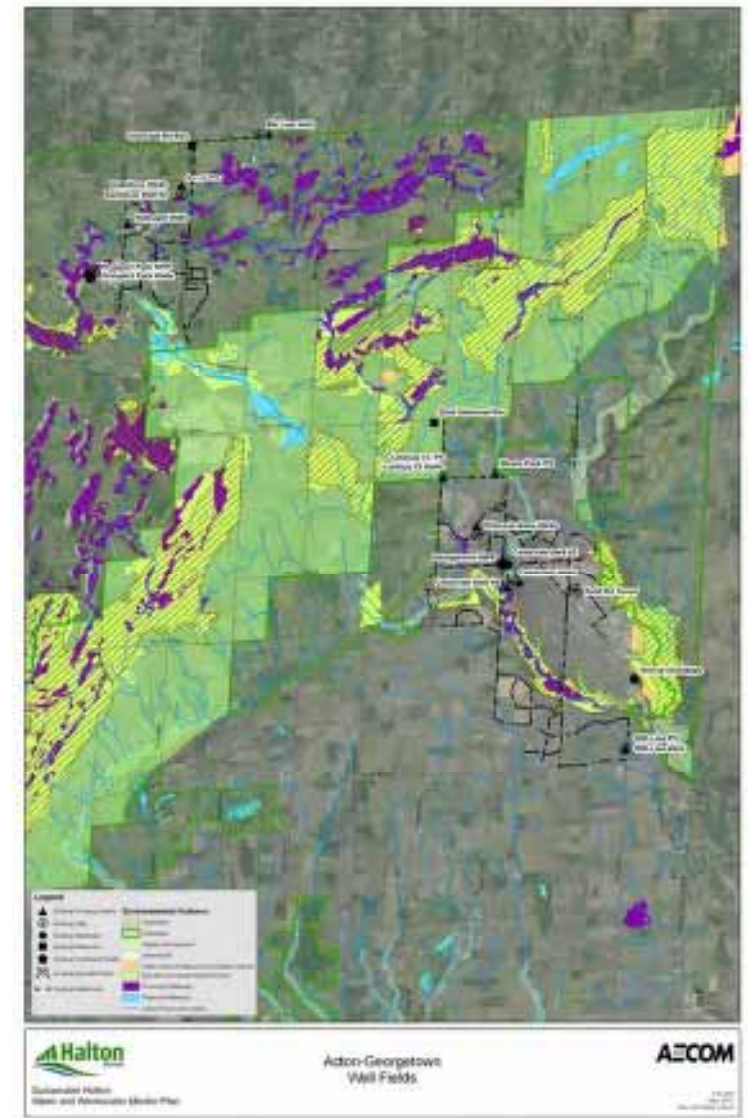
Master Plan Groundwater Study Objectives

- The objective of the groundwater project as part of the Sustainable Halton Master Plan was to assess the viability of different groundwater servicing alternatives. These alternatives may involve increasing groundwater taking from existing wells and/or adding new well(s).
- The groundwater assessment specifically examined the long term sustainability of increased groundwater taking by addressing two key questions
 - Is there sufficient water available in the aquifers?
 - Will increased water taking from those aquifers adversely impact the natural environment or surrounding domestic wells?
- To answer these key questions, the groundwater study evaluated historical data and reports along with draft results from projects currently underway on the various well fields. In addition, a detailed groundwater model was used to assess long term sustainability of proposed water takings, which includes cumulative effects of all the well fields.

Groundwater Existing Conditions

- Water supply for communities of Acton and Georgetown are currently obtained entirely from groundwater – bedrock and overburden aquifers. The Ministry of Environment permitted water taking rates from the Acton and Georgetown wells are provided below:

Community	Well Field	Supply Aquifer	Existing Available Supply Max Day (MLD)
Acton	4 th Line	Dolostone Bedrock	1.3
	Davidson	Dolostone Bedrock	2.4
	Prospect Park	Buried Bedrock Valley	1.8
	TOTAL		5.5
Georgetown	Cedarvale	Buried Bedrock Valley	8.1
	Lindsay Court	Buried Bedrock Valley	6.2
	Princess Anne	Buried Bedrock Valley	12.4
	TOTAL		26.7



Groundwater Capacity Study – Methods & Results

- Groundwater models are simplified representations of the physical system and model predictions have a degree of uncertainty relating to:
 - spatial location, density and reliability of field observations;
 - variability or complexity of the geology; and
 - measurement or estimation of the aquifer properties.
- Future conditions out to 2031 were simulated in the groundwater model using the proposed future groundwater taking rates with future land use patterns.
- In general, an increased water taking was considered sustainable in this groundwater analysis if the model simulation indicated that the increased groundwater taking did not:
 1. Draw down the water level in the pumping wells below an acceptable level
 - An acceptable level is defined to allow for sufficient water level above the pump intake. Excessive drawdown in pumping wells may cause impacts to residential water wells within the zone of influence.
 2. Significantly reduce the long term average groundwater discharge to local streams and wetlands
 - The model was used to estimate changes in groundwater discharge to environmental features, which included:
 - provincially Significant Wetlands (i.e. Hungry Hollow, Acton Silver Creek);
 - stream reaches within Black Creek and Hospital Tributary, Beeney Creek, and Silver Creek
 - surface water features including Fairy Lake
- Model results are used in conjunction with expert knowledge gained from previous technical work and ongoing groundwater studies in Halton Region.

Groundwater Modeling Results

	Well Field	Proposed Approximate Groundwater Taking Increase Beyond PTTW	Sustainability **	
			Risk of Adverse Impacts to Aquifers (water levels)	Risk of Adverse Impacts to Natural Environment
Acton	4 th Line	23%	Low	Low to Moderate
	Davidson	None	-	-
	Prospect Park	32%	Low	Low to Moderate
	New Well Field (North Acton)	New Supply	Low	Low
Georgetown	Cedarvale	29%	Low	Low to Moderate
	Lindsay Court	15%	Moderate	Moderate
	Princess Anne	None	-	-
	New Well Field (MSMC)	New Supply	Low	Low to Moderate

** Previous studies and current Sustainable Halton assessment suggest increased water takings are feasible, however further studies are required to confirm long term yield and / or environmental impacts.

Acton Georgetown

Acton Groundwater Based Servicing Max Day Demand Projections (MLD)

Service Area	2011	2016	2021	2026	2031
Groundwater Based	5.5	5.8	6.9	7.7	8.6

Existing Acton & Georgetown Groundwater Capacities (MLD)

Groundwater System	Actual Supply (MLD)
Acton Well Fields	5.5
Georgetown Well Fields	26.7

Georgetown Groundwater & Lake Based Servicing Max Day Demand Projections (MLD)

Service Area	2011	2016	2021	2026	2031
Existing Groundwater Service Area	25.1	26.4	27.9	29.6	31.4
Transferred Areas from Groundwater to Lake Based ¹	0	0	7.3	7.4	7.5
Future Groundwater Service Area	25.1	26.4	20.6	22.1	23.9
Transferred Areas from Groundwater to Lake Based ¹	0	0	7.3	7.4	7.5
Lake Based Growth Areas ²	0	0	0.03	5.1	10.5
Future Lake Based Service Area	0	0	7.35	12.5	18.0
Total Georgetown	25.1	26.4	27.9	34.6	41.9

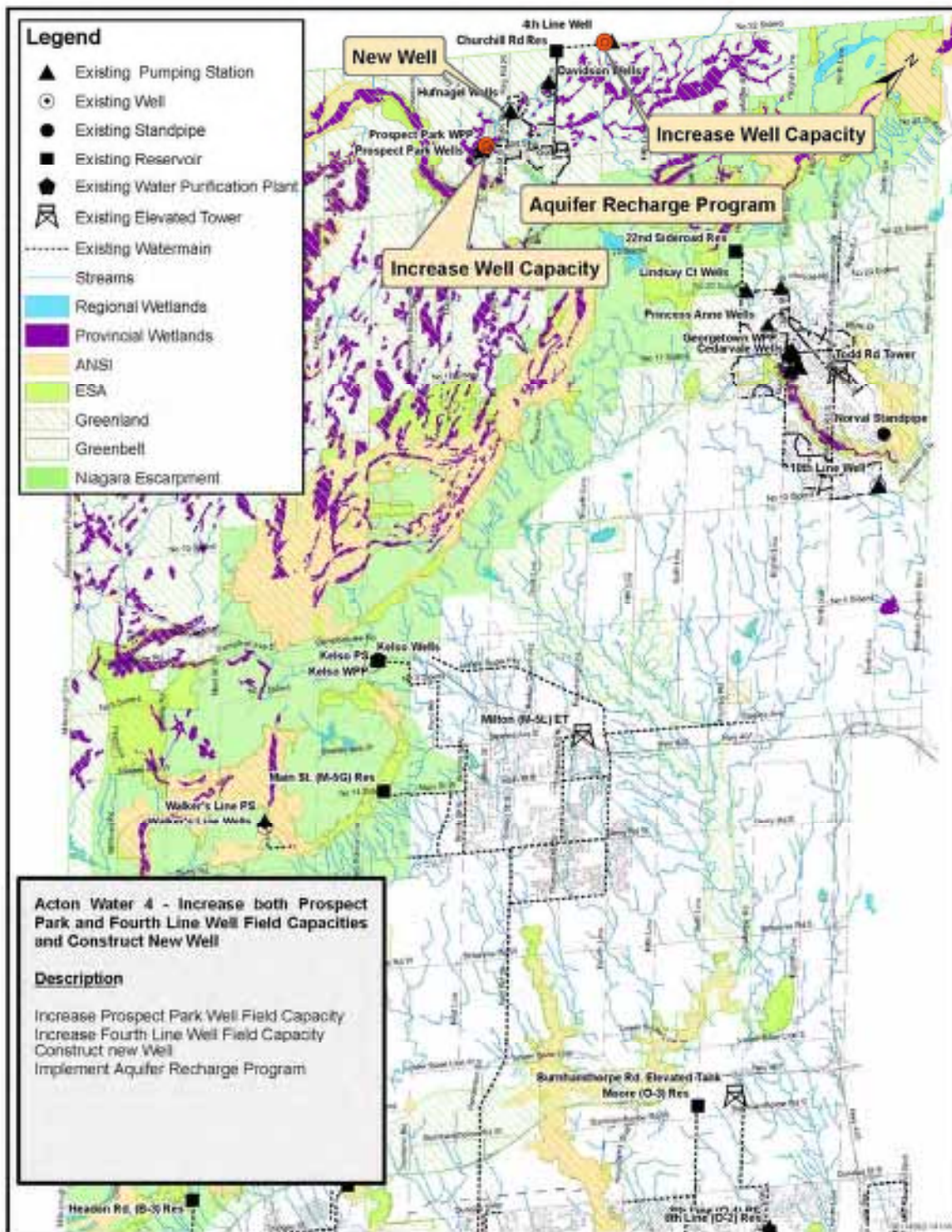
¹ Includes Georgetown South and Stewarttown Areas being transferred from groundwater to lake based servicing.

² Includes Southwest Georgetown and Stewarttown Hamlet .

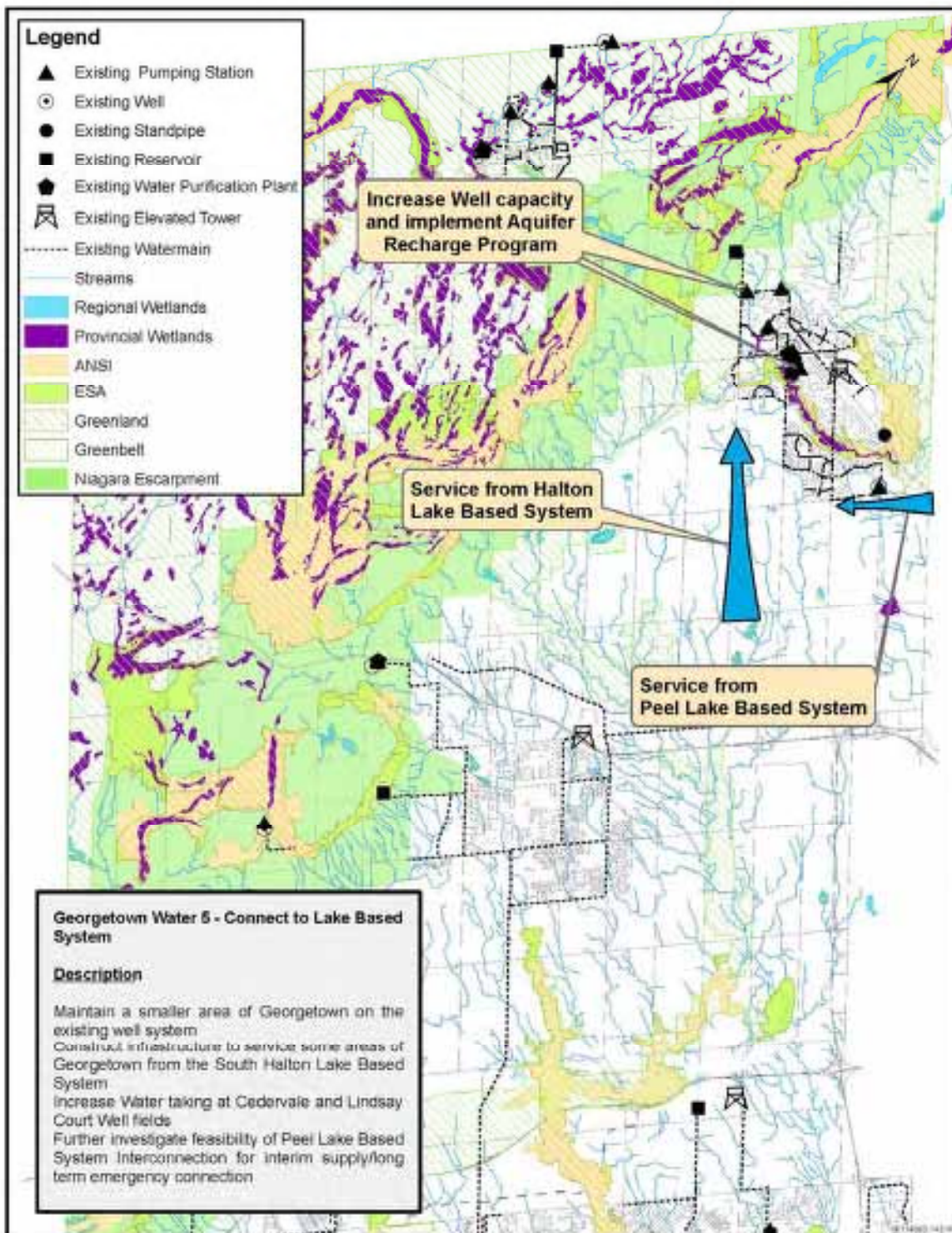
Decision Making Process – Acton Water

Long List of water servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred water servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Increase both Prospect Park and Fourth Line Well Field Capacities	<ul style="list-style-type: none"> Maximizes existing well infrastructure 	<ul style="list-style-type: none"> Requires regular well maintenance No allowance for redundancy/firm capacity of the well system Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required 	Concept 1 – Increase both Prospect Park and Fourth Line Well Field Capacities Concept screened out as a stand alone solution	(Screened Out – no further evaluation undertaken)				
Concept 2 Increase Prospect Park Well Field Capacity and Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	Concept 2 – Increase Prospect Park Well Field Capacity and Construct a New Well Field (Concept further evaluated through Groundwater Study)	Low to moderate risk of potential impact from increased water taking to local ecology and private wells Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking Least Preferred	Risk associated with agency approvals for increased Permit To Take Water (PTTW) Least Preferred	Sustainable Halton groundwater study and preliminary Tier 3 Modeling results show alternative does not meet projected supply needs Not considered a viable alternative Least Preferred	Lower cost alternative Additional costs will be incurred for on-going operation, maintenance and monitoring Least Preferred	
Concept 3 – Increase Fourth Line Well Field Capacity and Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	Concept 3 – Increase Fourth Line Well Field Capacity and Construct a New Well Field (Concept further evaluated through Groundwater Study)	Low to moderate risk of potential impact from increased water taking to local ecology and private wells Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking Least Preferred	Risk associated with agency approvals for increased Permit To Take Water (PTTW) Least Preferred	Sustainable Halton groundwater study and preliminary Tier 3 Modeling results show alternative does not meet projected supply needs Not considered a viable alternative Least Preferred	Lower cost alternative Additional costs will be incurred for on-going operation, maintenance and monitoring Least Preferred	
Concept 4 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Greatest flexibility for redundancy/firm capacity in supply Allows staging of works Addresses growth within urban boundary 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	Concept 4 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field Concept combined with Concept 6 (Concept further evaluated through Groundwater Study)	Low to moderate risk of potential impact from increased water taking to local ecology and private wells Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking Aquifer recharge / assimilative capacity required to Black Creek or Fairy Lake Neutral	Lower risk associated with agency approvals for increased Permit To Take Water (PTTW) Coordination with local residents required Opportunity for community betterment Maximizes existing well field sites Requires new site Preferred	Based on Sustainable Halton groundwater study and preliminary Tier 3 Modeling results, it is anticipated that this alternative would meet projected supply needs (Alternative requires long term pumping testing to support future production increase) Preferred	Higher cost alternative Additional costs will be incurred for on-going operation, maintenance and monitoring Preferred	Alternative 4 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking
Concept 5a – Connect to the Lake based system in South Halton (Lake Ontario)	<ul style="list-style-type: none"> Increased redundancy and security in supply Could potentially address full build-out needs 	<ul style="list-style-type: none"> Contrary to Greenbelt Policy 	Concept 5a – Connect to the Lake based system in South Halton (Lake Ontario)	(Screened Out – no further evaluation undertaken)				
Concept 5b – Connect to the Wellington County System (Lake Erie)	<ul style="list-style-type: none"> Increased redundancy and security in supply 	<ul style="list-style-type: none"> Intra basin transfer issues, ground watershed flows to Lake Erie Studies required to determine feasibility of balancing water budget Fundamentals of agreement needs to be established Confirmation of available Wellington capacity and trunk system impacts need to be confirmed 	Concept 5b – Connect to the Wellington County System (Lake Erie)	(Screened Out – no further evaluation undertaken)				
Concept 6 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Implement Aquifer Recharge Program	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Aquifer recharge implementation study can run concurrently with Well Field re-rating Addresses growth within urban boundary 	<ul style="list-style-type: none"> Feasibility study required for aquifer recharge Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Potential public concern Not a viable solution in the short term 	Concept 6 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Implement Aquifer Recharge Program Concept screened out as a stand alone solution Concept combined with Concept 4	Low to moderate risk of potential impact from increased water taking to local ecology and private wells Potential mitigation through artificial recharge of aquifer at Black Creek/Fairy Lake Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking Neutral	Potential for public perception/acceptance of aquifer recharge solution to be negative Risk associated with agency approvals for increased Permit To Take Water (PTTW) Maximizes existing well field sites Agency approvals required for aquifer recharge pilot study Neutral	Alternative does not meet projected supply needs. Further pilot study recommended to test viability of aquifer recharge Neutral	Capital investment into existing and new infrastructure Additional costs will be incurred for on-going operation, maintenance and monitoring Neutral	Integrated into Preliminary Preferred Alternative 4

Acton Preliminary Preferred Water Servicing Strategy



Georgetown Preliminary Preferred Water Servicing Strategy



Acton Georgetown

Acton Wastewater Servicing Average Day Flow Projections (MLD)

Service Area	2011	2016	2021	2026	2031
Acton WWTP	4.69	4.78	5.45	6.05	6.68

Existing Acton & Georgetown Wastewater Treatment Capacities (MLD)

Wastewater Treatment Plant	Treatment Capacity (MLD)
Acton WWTP *	4.545
Georgetown WWTP	22.727

* Acton WWTP upgrade currently underway.

Georgetown Wastewater Servicing Average Day Flow Projections (MLD)

Service Area	2011	2016	2021	2026	2031
Existing Georgetown WWTP	18.79	19.46	20.37	21.59	22.93
Diverted Areas ¹	0	0	5.47	5.55	5.61
Future Georgetown WWTP	18.79	19.46	14.90	16.04	17.32
Diverted Areas ¹	0	0	5.47	5.55	5.61
Lake Based Growth Areas ²	0	0	0.02	3.14	6.47
Future Lake Based Service Area	0	0	5.49	8.68	12.08
Total Georgetown	18.79	19.46	20.39	24.73	29.40

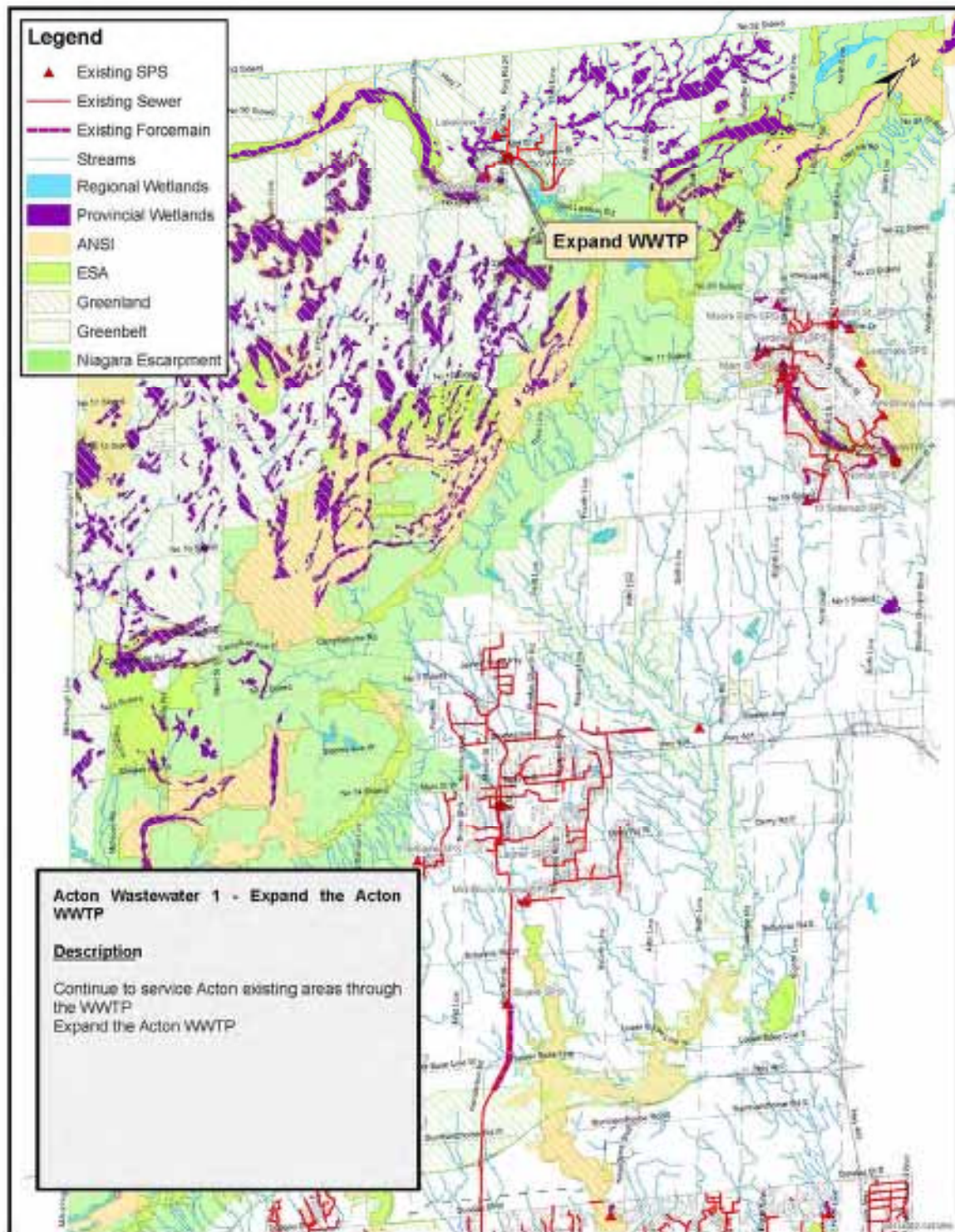
¹ Includes Georgetown South and Near Stewarttown Areas being diverted to South Halton Wastewater System from existing Georgetown Wastewater Treatment Plant.

² Includes Southwest Georgetown and Stewarttown Hamlet.

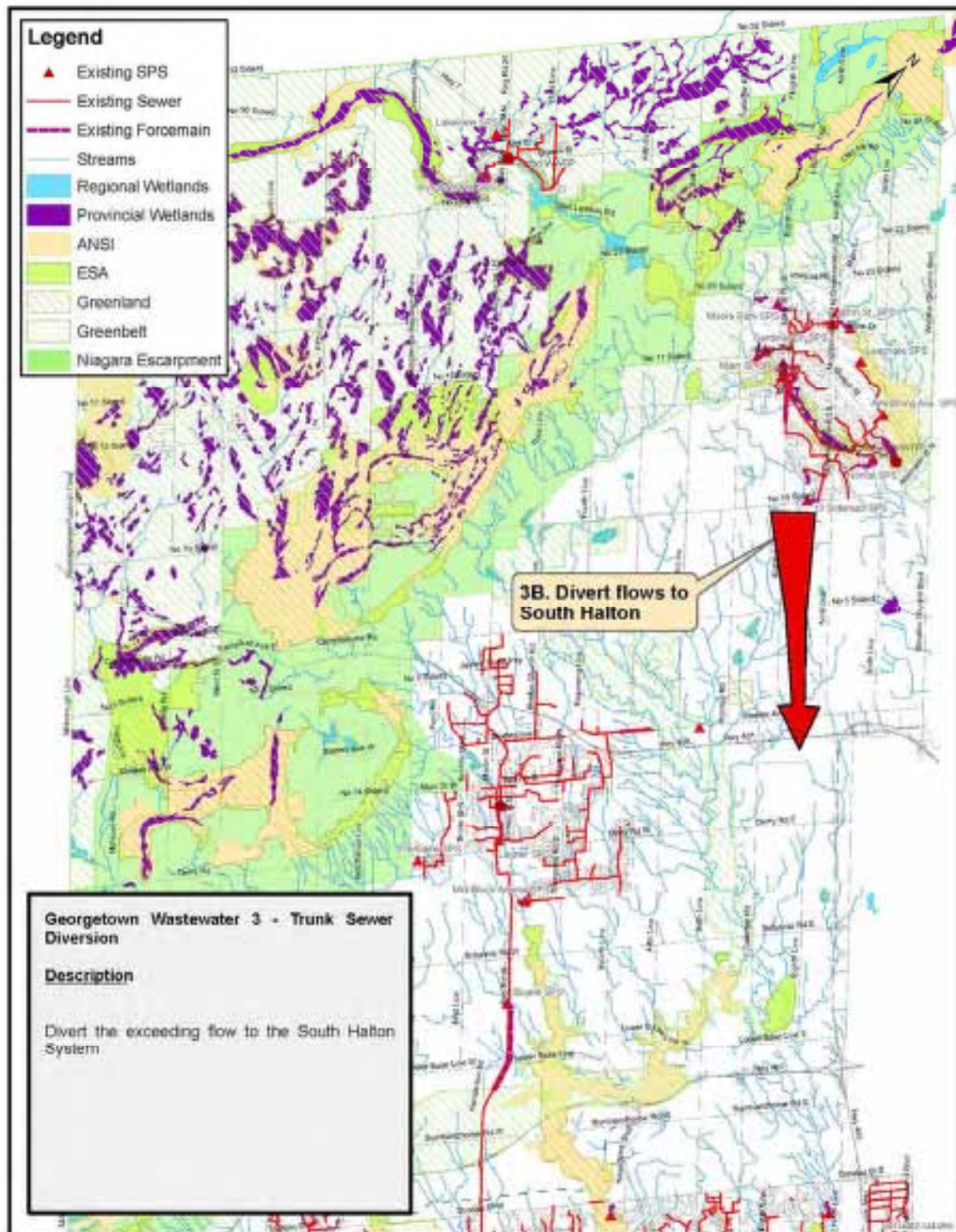
Decision Making Process – Acton Wastewater

Long List of wastewater servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred wastewater servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Expand the Acton WWTP	<ul style="list-style-type: none"> Maximizes existing infrastructure Addresses growth within existing urban boundary 	<ul style="list-style-type: none"> Potential impacts during construction Assessment of site capacity required Requirement to meet stringent effluent discharge criteria 	Concept 1 – Expand the Acton WWTP	Maintain water balance in community Preferred	Need to mitigate impacts during construction Preferred	Site capacity and treatment capacity can meet 2031 wastewater flows and effluent discharge criteria Preferred	Capital investment into existing infrastructure is required High cost alternative Preferred	Alternative 1 - Expand Acton WWTP to accommodate 2031 wastewater flows
Concept 2 – Reduce Inflow and Infiltration	<ul style="list-style-type: none"> Maximizes existing infrastructure No major upgrades required 	<ul style="list-style-type: none"> Requires implementation of flow reduction program Potential to not meet flow reduction targets Generally dependent on public participation and commitment 	Concept 2 – Reduce Inflow and Infiltration	Minor impact during construction Neutral	Dependent on public participation Neutral	Does not adequately address growth needs in Acton Least Preferred	Dependent on public and private infrastructure investment Lower cost alternative but does not adequately address growth needs Neutral	Notes: Inflow /infiltration program recommended in conjunction with preliminary recommended servicing solution
Concept 3a – Trunk Sewer Diversion - Send flows to the Georgetown WW System	<ul style="list-style-type: none"> No upgrades required to existing plant Provides redundancy 	<ul style="list-style-type: none"> Protected Area (NEC) Crossing Potential imbalance of water budget High cost for new infrastructure High reliance on capacity in Georgetown 	Concept 3 – Trunk Sewer Diversion - send flows to the Georgetown WW System	(Screened Out – No further evaluation undertaken)				
Concept 3b – Trunk Sewer Diversion - Send flows to the South Halton WW System	<ul style="list-style-type: none"> No upgrades required to existing plant Provides redundancy Could potentially address full build-out needs 	<ul style="list-style-type: none"> Protected Area (NEC) Crossing Potential imbalance of water budget High cost for new infrastructure 	Concept 4 – Trunk Sewer Diversion - Send flows to the South Halton WW System	Significant sewer crossing of NEC Water balance concerns Least Preferred	Coordination needs for infrastructure alignments Need to address Greenbelt Plan Least Preferred	Minimizes requirements at existing Acton WWTP Greater distance, more crossings, and more challenging alignments than 3a. Least Preferred	Significant capital costs by diversion to South Halton Multiple crossings Potentially multiple wastewater pumping stations Highest cost alternative Least Preferred	

Acton Preliminary Preferred Wastewater Servicing Strategy



Georgetown Preliminary Preferred Wastewater Servicing Strategy



Decision Making Process – Georgetown Wastewater

Long List of wastewater servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred wastewater servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Expand the Georgetown WWTP	<ul style="list-style-type: none"> Maximizes existing infrastructure Addresses growth within existing urban boundary 	<ul style="list-style-type: none"> Potential impacts during construction Assessment of site capacity required Requirement to meet stringent effluent discharge criteria Concern regarding meeting the full buildout requirements 	Concept 1 – Expand the Georgetown WWTP Only	Need to mitigate impact to effluent receiving stream Least Preferred	Need to mitigate impact during construction Least Preferred	Existing site capacity concerns Unable to meet full growth capacity Requirements to meet stringent effluent discharge requirements Least Preferred	Requires significant capital investment High cost alternative Least Preferred	
Concept 2 – Reduce Inflow and Infiltration	<ul style="list-style-type: none"> Maximizes existing infrastructure No major upgrades required 	<ul style="list-style-type: none"> Requires implementation of flow reduction program Potential to not meet flow reduction targets Generally dependent on public participation and commitment 	Concept 2 – Reduce Inflow and Infiltration	Minor impact during construction Neutral	Dependent on public participation Neutral	Does not adequately address growth needs in Acton Least Preferred	Dependent on public and private infrastructure investment Lower cost alternative but does not adequately address growth needs Neutral	Notes: Inflow /infiltration program recommended in conjunction with preliminary recommended servicing solution
Concept 3a – Trunk Sewer Diversion - Send flows to the Peel WW System	<ul style="list-style-type: none"> No upgrades required to existing plant for growth Provides redundancy Addresses greenfield growth and could consider full system capacity 	<ul style="list-style-type: none"> Potential impact on local aquifer due to water balance management High cost for new infrastructure Confirmation of available Peel capacity and trunk system impacts need to be confirmed Fundamentals of agreement need to be established 	Concept 3a – Trunk Sewer Diversion - Send flows to the Peel WW System	Maintains water balance in community Neutral	Requires coordination and agreement with Peel Neutral	Provides service area flexibility Requires significant Peel infrastructure Staging dependent on Peel capacity Neutral	Requires investment in Region of Peel infrastructure Highest cost alternative Least Preferred	
Concept 3b – Trunk Sewer Diversion - Send flows to the South Halton WW System	<ul style="list-style-type: none"> No upgrades required to existing plant for growth Provides redundancy Addresses greenfield growth and could consider full system capacity 	<ul style="list-style-type: none"> Potential imbalance of water budget High cost for new infrastructure would require coordination with post 2021 service area 	Concept 3b – Trunk Sewer Diversion - Send flows to the South Halton WW System	Maintains water balance in community Preferred	Need to mitigate impacts during construction Majority of infrastructure located within existing road right-of-ways Preferred	Provides service area flexibility Requires significant South Halton infrastructure Some phasing opportunities for servicing Preferred	Cost for sewers to South Halton Leverages capital program for South Halton Medium cost alternative Preferred	Alternative 3b Trunk sewer diversion of new growth flow as well as strategic upgrades/improvements to the Georgetown WWTP Preferred

PUBLIC INFORMATION CENTRE #2

SIGN-IN SHEETS



Oakville



SIGN-IN SHEET
Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 16, 2011

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	David Nelson Ruth Victor assoc.			
	V. Pellizzoni			
	RON BALDEGARRIA RANDVEST INC.			
	York Gnehl York Trufalgar Corp.			
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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 16, 2011

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Public Information Centre No. 2, February 17, 2011

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	HARRIS SWITZMAN BURLINGTON GREEN			
	Ron Young - Kepan Group			
	Dr. Kamel Amer			
	DAVID NELSON Ruth Victor & Associates			
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	JOHN NACCARATO			

Jack Simon

Councillor, Ward 4 Burlington



Milton



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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 22, 2011

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Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 22, 2011

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Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 22, 2011

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	Jim Firth			
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	Haiqing Xu HALTON REGION.			
	KIYOSHI OICA			
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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 24, 2011

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	Patricia Coora/Halton Hills Hydro			
	Michael Tomka/CRA			
	Carol Gustafson Miltongreen			
	Mayor Rick Bonwell	Town of Halton Hills		
	STEVE GIBBS	" " " "		
	JOE DEL BALLE			
	Jim Steeves			
	LAURENT THIBAUT			
	Cassie Carrigan Credit Valley Conservation			

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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 24, 2011

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	Ernest Alford			
	JOAN R McNALLY			
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	Martin Goodrich			
	FRANCES NIBLOCK	THE NEW TANNER, AECOM		
	MOYA JOHNSON			
	Chris Mills	Town of Halton Hills		



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Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 24, 2011

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Public Information Centre No. 2, February 24, 2011

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Municipal Class Environmental Assessment Study
Public Information Centre No. 2, February 24, 2011

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	Robert HEATON			
	Drew Leverette			
	LINDA HESS			
	Wayne Scott			

PUBLIC INFORMATION CENTRE #2

COMMENTS

September 30, 2011
Project 06108

The Regional Municipality of Halton
Public Works
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

Attention: Mr. John Duong, P.Eng.
Manager, Wastewater Planning

**Subject: Sustainable Halton Water and Wastewater Master Plan
Further Comments on behalf of the Britannia South Landowners
Group**

Dear John:

Further to the Planning and Public Works Committee meeting on September 28, 2011, we are writing on behalf of the Britannia South Landowners Group. We are the engineering consultant for this group which is comprised of approximately 525 acres of land south of Britannia Road between Thompson Road and 5th Line in the Town of Milton. The landowners currently participating in this group include Fieldgate Developments and Trinison Management Corp.

We would first like to commend the Region for inviting our participation through stakeholder and public consultation meetings. We believe that the approach taken by the Region will result in cost effective servicing strategies which will maximize the use of existing infrastructure while accommodating the growth anticipated to 2031.

We have the following additional comments:

1. The majority of the wastewater infrastructure identified in the Sustainable Halton Water and Wastewater Master Plan is intended to service three primary new growth areas, namely Georgetown, Milton East, and Britannia North/South Lands (west of 6th Line).

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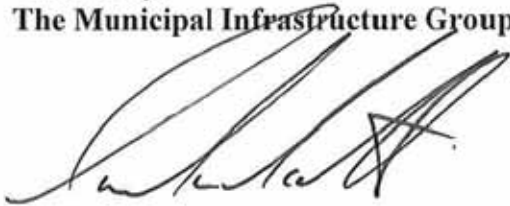
2. The Master Plan assumes that the Sustainable Halton growth areas are all slated for development between 2021 and 2031, and therefore, the Master Plan identifies infrastructure to be built between 2017 to 2021 in order to support initiation of the Sustainable Halton development in 2021. We support this proactive approach to plan for servicing in advance of anticipated development.
3. As identified in our correspondence to the Region on March 10, 2011, March 23, 2011, and as discussed with Region Staff at the March 30, 2011 Stakeholder Meeting, we believe that a significant portion of the Britannia South lands can be serviced by gravity to the Britannia Road trunk sewer and Sanitary Pump Station without the need for further deepening of the proposed Britannia Road sanitary system. We are still waiting for the Region's written response to our technical submission on this matter.
4. Notwithstanding our correspondence and stakeholder discussions, we understand that the Region still intends to ultimately service the Britannia South, Britannia North, Milton East, and the Georgetown lands via a new Sanitary Pump Station and a new forcemain crossing of the 16 Mile Creek at a southerly location near Lower Base Line.
5. We also understand that the Region intends to service at least 2000 units of the Britannia South lands by the proposed Britannia trunk sewer and Sanitary Pump Station, prior to the new Lower Base Line SPS and forcemain being in operation. We understand that this has been confirmed through our discussion with Regional staff on October 3rd.
6. We support the servicing of the Britannia South lands via the Britannia Road trunk sewer and SPS for the following reasons:
 - The Region's recently endorsed Best Planning Estimates provided for the development of 2000 new units within Britannia South from 2021 to 2026 with a further 3600 units within Britannia South from 2026 to 2031.
 - The Britannia South lands are located immediately adjacent to the proposed Britannia Road Trunk Sewer and SPS which is scheduled to be constructed 2012-2016 to facilitate development of the Boyne Survey Community.
 - As noted above a significant portion of the Britannia South lands can be serviced by gravity to the Britannia Road trunk sewer and Sanitary Pump Station without the need for further deepening of the proposed Britannia Road sanitary system.

- With the Britannia South lands being located immediately adjacent to the Britannia Trunk Sewer and SPS, a substantial portion of the proposed units within Britannia South could be serviced with relatively little additional wastewater infrastructure to be built by the Region. This is in comparison to the significant new trunk infrastructure proposed by the Region along Britannia Road, Trafalgar Road, and 8th Line, for the Milton East and Georgetown lands, which amounts to approximately \$84M in construction costs.

We request that the Region provides us with a written response to this submission, and we welcome the opportunity to meet with Region staff to discuss this further.

Thanks for inviting our participation in this project and we look forward to working with the Region and AECOM to refine the preferred water and wastewater servicing strategy for the Sustainable Halton lands.

Yours truly,
The Municipal Infrastructure Group



David Scott, P.Eng.
Founding Partner

cc Dave Andrews, Region of Halton
 Ron Glenn, Region of Halton
 Zahir Najak, Region of Halton
 Chris Hamel, AECOM
 Bill Mann, Town of Milton
 Colin Chung, GSAI
 Carlo Stefanutti, Fieldgate Developments
 Colin McGregor, Trinison Management Corp.

September 30, 2011
Project 10113

The Regional Municipality of Halton
Public Works
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

Attention: Mr. John Duong, P.Eng.
Manager of Wastewater Planning

**Subject: Sustainable Halton Water and Wastewater Master Plan
Further Comments on behalf of Fieldgate Developments and Great
Gulf Homes (Boyne West lands)**

Dear John:

Further to the Planning and Public Works Committee meeting on September 28, 2011, we are writing on behalf of our Boyne Survey West clients with regard to the Sustainable Halton Water and Wastewater Master Plan. Specifically, we are writing on behalf of Fieldgate Developments and Great Gulf Homes who collectively own over 400ac of land south of Louis St Laurent and north of Britannia Road between Tremaine Road and First Line. (See attached Fig. 1)

We have the following comments:

Boyne Survey Lands – Tributary to Existing Tremaine SPS

The Region's "Preliminary Preferred Wastewater Servicing Strategy" figures presented at the February 2011 PIC showed that the Boyne Survey lands west of 1st Line are to be serviced by trunk gravity sewers to the existing Tremaine Road SPS, which was constructed within the Fieldgate Subdivision lands just south of the future Louis St Laurent Drive. This servicing arrangement was depicted showing gravity sewers on both the west and east side of the CN corridor, conveying sanitary drainage to the existing SPS.

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This February 2011 sanitary servicing approach was supported by the Boyne Survey West landowners as it was consistent with the June 2008 South Halton Water Wastewater Master Plan update which clearly identified that the entire Boyne lands west of 1st line are to be serviced by the Tremaine SPS (see Appendix 1-7B of the Region's 2008 report).

Furthermore the final servicing scheme envisioned at the time of the original Tremaine Road SPS design, in 2006, accounted for the entire Boyne lands west of 1st Line (Milton Phase 3 lands), from both a flow and depth standpoint. Significant technical analysis and exchange of information was undertaken between the Region and the tributary landowners (ie Fieldgate, Great Gulf, Townwood, and Varga) during the summer of 2006. This exchange resulted in these particular Milton Phase 3 landowners entering into a financial agreement with the Region in the fall of 2006, in which these landowners funded a portion of the pump station construction costs (see attached correspondence).

The latest Preferred Wastewater Servicing Strategy presented in Attachment 2 of the September 12, 2011 Sustainable Halton Water and Wastewater Master Plan Executive Summary, however, appears to incorporate a deviation from the plan presented at the February 2011 Public Information Centre. The latest plan appears to identify that the Boyne lands west of 1st line and east of the CN corridor will not be conveyed to the existing Tremaine SPS but rather diverted to a new 675mm trunk sewer to be constructed along Britannia Road.

This is of concern to both Fieldgate and Great Gulf as this change to the Wastewater Servicing Strategy not only has the potential to delay development of their lands east of the CN corridor but it will likely drive the need for additional earth filling on their lands. This potential time delay and potential fill requirement will have a financial impact on the Fieldgate and Great Gulf lands... lands which, as noted above, entered into a financial agreement with the Region to fund the pump station construction.

As a result we request that the Region provides clarification as to rational for the change in the Wastewater Servicing Strategy described above and depicted in the September 2011 report.

Wastewater Servicing of the Education Village Lands

As identified in the Preferred Wastewater Servicing Strategy presented in Attachment 2 of the September 12, 2011 Sustainable Halton Water and Wastewater Master Plan Executive Summary, it appears that the Region is intending to service a portion of the Milton Education Village Lands wastewater flows to the existing Tremaine SPS.

Our clients do not object to this approach in principal, provided that this is not at the expense of the development of the Fieldgate or Great Gulf lands west of 1st line.

It is our understanding that the Tremaine SPS was designed with a flow capacity of 550l/s. It is also our understanding that at the time of the SPS design, it was expected that the combined wastewater flows from the Milton Phase 2 lands and the Milton Phase 3 lands would make up the ultimate station capacity.

We are concerned that the existing Tremaine SPS does not have sufficient capacity for pumping sanitary flows from the Milton Education Village lands in addition to the tributary Milton Phase 2 lands west of 1st Line, the Milton Phase 3 lands west of 1st Line.

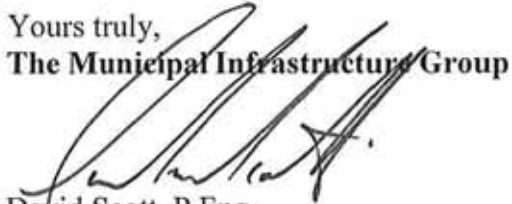
We request that the Region provides us with confirmation of the proposed drainage areas and flows to the Tremaine SPS as envisioned in the latest draft of the Sustainable Halton Water and Wastewater master Plan.

Furthermore, we suggest that should sufficient capacity not exist in the Tremaine SPS for the Milton Education lands in addition to the tributary lands ...then options for upgrades to this SPS should be recommended in the Master Plan to accommodate the Education Village lands, rather than the apparent solution comprising the diversion of flows from Phase 3 lands west of 1st Line to a new Britannia Road sewer system.

On behalf of our clients Fieldgate Developments and Great Gulf Homes, we request a meeting be arranged at this time with Region Staff, Carlo Stefanutti, Katy Schofield, Colin Chung, and myself to review the above in greater detail. In addition we request a subsequent written response to our submission.

In the meantime, we wish to thank the Region for inviting our participation in this project and we look forward to working with the Region and AECOM to refine the preferred water and wastewater servicing strategy for the Sustainable Halton lands.

Yours truly,
The Municipal Infrastructure Group



David Scott, P.Eng.
Founding Partner

cc Dave Andrews, Region of Halton
Ron Glenn, Region of Halton
Zahir Najak, Region of Halton
Chris Hamel, AECOM
Bill Mann, Town of Milton
Colin Chung, GSAI
Carlo Stefanutti, Fieldgate Developments
Katy Schofield, Great Gulf Homes

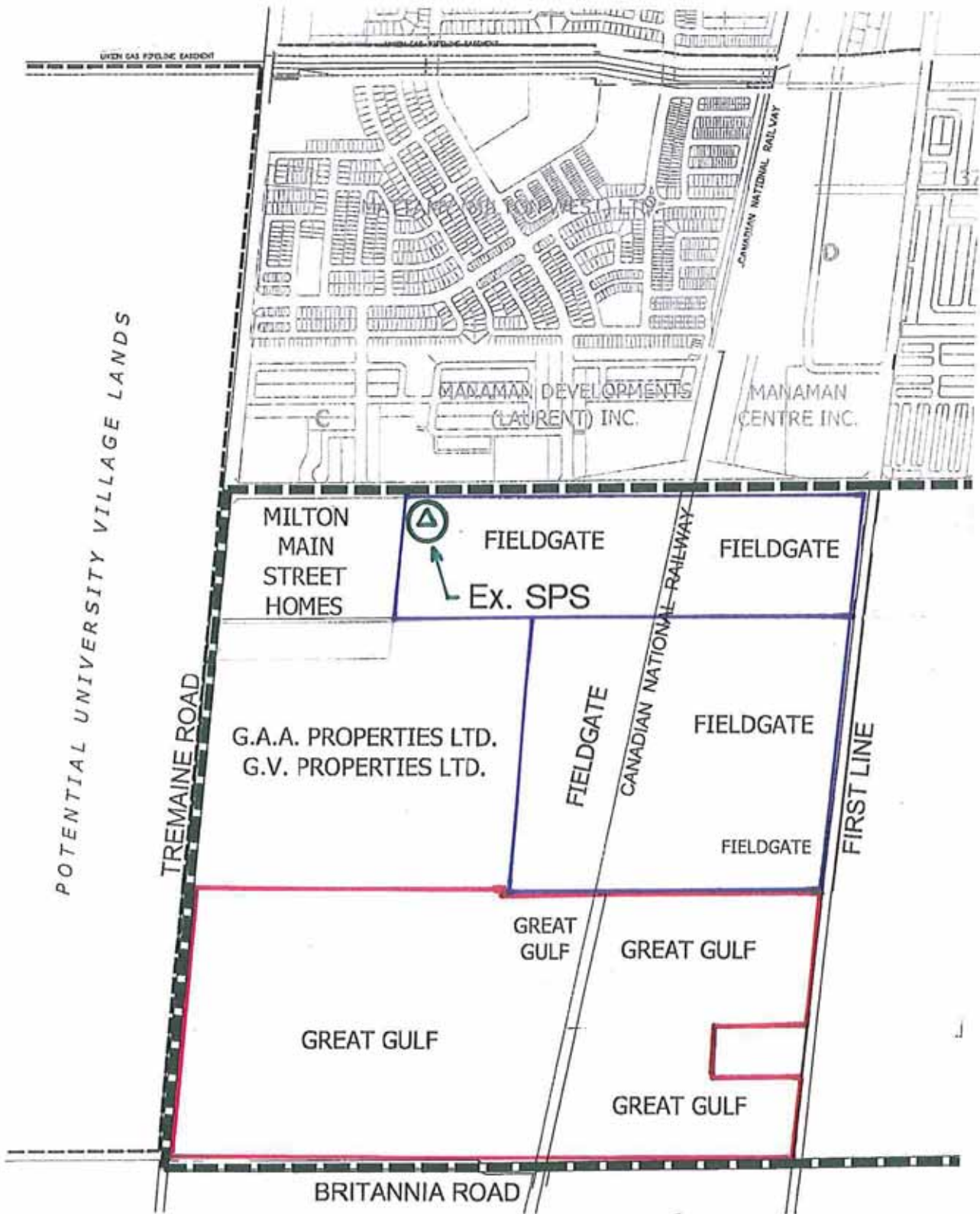


Figure 1A



August 15, 2006

Our Project # : 05120

Regional Municipality of Halton
Planning & Public Works Department
1151 Bronte Road
Oakville, Ontario
L6M 3L1

**Attention : Mr. Peter M. Crockett, P.Eng.
Commissioner of Planning and Public Works**

Dear Peter,

RE : SHERWOOD SURVEY SECONDARY PLAN SANITARY SEWER SERVICING
LOUIS ST. LAURENT SANITARY PUMPING STATION
TOWN OF MILTON

Thank you for your email dated August 4, 2006 requesting clarifying information and assurances from the Phase 3 Landowners regarding the sanitary servicing solutions discussed at our August 2, 2006 meeting.

We are pleased that, subject to Regional Council approval and the conditions you indicated, the Region is agreeable to the implementation of the Louis St. Laurent, single pumping station option.

Further to your email, we would like to confirm the following items:

- The sewers in the Phase II lands, north of Louis St. Laurent pumping station, have been designed to be as shallow as possible and the depths could not be improved upon.
- A sewer elevation of 175.25 m at the pumping station can accommodate the future sanitary servicing of the Phase III lands. This has also been confirmed in our previous letter, as signed by all the major landowners within the participating block.

2300 Steeles Ave. West
Suite 120
Vaughan, Ontario
L4K 5X6

tel: 905-738-5700
fax: 905-738-0065
1 888-449-4430
info@tmig.ca
www.tmig.ca

- The invert of the receiving culvert at Britannia Road has been determined by Sernas Associates, and they have indicated that the elevation is 182.50 meters, this is being confirmed through a field survey being completed soon however the elevation was determined based on the aerial topography used in the analysis and hence any change should be relative and inconsequential. Additionally, the overflow concept plan indicates this outlet will indeed function as a free discharge point under normal flow conditions for a single station located at Louis Saint Laurent Avenue. If feasible, we commit to implementing a solution whereby potential emergency discharge will be directed to a storm water management pond for a more desirable overflow management system. It is the position of the group that raising the lands by an additional 2 meters that maybe required to make this the SWMP alternative work would require excessive costs and hence identify this the overflow to storm water management pond alternative as non feasible.
- In addition to the agreement between 2051543 Ontario Inc. and Mattamy (Milton West) Limited, the G.V. Properties Ltd. (Varga) and 1045502 Ontario Limited (Fieldgate) lands have easement documents underway for the Temporary Access Roadway from Tremaine Road to the Louis St. Laurent Pumping Station.
- The landowners agree that this Temporary Access Roadway will be both gated and fenced for the use of Regional staff until such time as a permanent access is available from Louis Saint Laurent Avenue. The landowners commit to working with the Region to finalize the easement documentation.
- The landowners have agreed to remove the capping provision and understand that their contribution will be determined based on the actual project tender with a "No-interest" provision stipulated in all financial arrangements. In addition, the landowner contribution will not be indexed and will be a dollar for dollar credit (i.e. credit amount equal to the amount of their contribution today). It is anticipated that this contribution will be credited against future DC's.
- Payment in the form of a Letter of Credit from the landowners to be drawn down upon as necessary is agreeable.


With this letter the Phase III landowners confirm the acceptance of these terms.

We thank you and your staff for their time in dealing with this matter in an expeditious manner.

I trust that this is sufficient for your review and consideration. If you have any questions, or require further clarification, please do not hesitate to call.

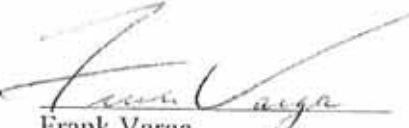
Sincerely,

THE MUNICIPAL INFRASTRUCTURE GROUP LIMITED


David F. Ashfield, P.Eng.
Partner

G. V. PROPERTIES LTD.
G. A. A. PROPERTIES LTD.

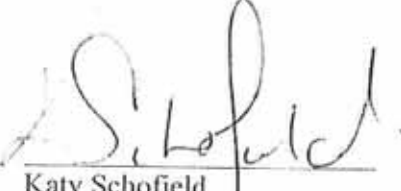
FOREPURCH INVESTMENTS INC. AND
STAGSLEAP INVESTMENTS LTD.


Frank Varga


Tony Guglietti

PONY PINES DEVELOPMENT INC.

1045502 ONTARIO LIMITED
1048605 ONTARIO LIMITED


Katy Schofield


Carlo Stefanutti

cc. Phase III Landowners
Gord Patterson, Semas Associates
Myron Pestaluky, Delta Urban
David Scott, TMIG
Jane Clohecy, Region of Halton



July 31, 2006

File 05120

Regional Municipality of Halton
Planning & Public Works Department
1151 Bronte Road
Oakville, Ontario
L6M 3L1

**Attention : Mrs. Jane Clohecy, Director
Planning & Transportation Services**

Dear Jane,

RE : SHERWOOD SURVEY SECONDARY PLAN SANITARY SEWER SERVICING
LOUIS ST. LAURENT SANITARY PUMPING STATION
TOWN OF MILTON

Thank you for meeting with us and the Milton Phase 3 landowners group at your offices on Monday July 24th. This meeting was arranged as a result of Staff Report PPW129-06 dated June 22, 2006. At this meeting Region staff identified the following issues associated with the Louis St Laurent Pump Station, as currently designed:

Issues Identified

1. Wet Well depth of 24m and its impact (cost) to both construction and maintenance
2. Deep sewers from both Phase 2 and Phase 3 lands (up to 18m deep)
3. Emergency overflow/storage
4. Temporary Access Road
5. Hydro pole line from 1st Line
6. Overall cost over run from +/- \$6M to +/- \$12M on Pump Station, Trunk Sewer, and Forcemain

As requested by Regional Staff, the Phase 3 landowners committed to provide a written assessment detailing potential solutions to the design issues noted above and detailing the Phase 3 landowners proposed financial solution. It was agreed that this would be provided to the Region in advance of the next scheduled meeting on August 2nd.

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Suite 120
Vaughan, Ontario
L4K 5X6

tel: 905-738-5700
fax: 905-738-0065
1 888-449-4430
info@tmig.ca
www.tmig.ca

We are pleased to provide the following in response to the Region's request.

1. The current 24m wet well depth as reported on the MacViro drawings dated April 2006 is based on an incoming sewer invert of 170.0m from the Phase 3 lands to the south and on an incoming sewer invert of 180.2m from the Phase 2 lands to the north.

The incoming sewer invert of 170.0m from the Phase 3 lands results in a wet well invert elevation of 167.6m as currently detailed on the MacViro drawings

The Phase 3 sewer invert was established at 172.5m based on preliminary engineering works by the Phase 3 landowners and their engineering representatives, including Schaeffers memo dated May 2004. This information was shared with the Region and MacViro staff at the Pump Station Project Meetings in August and September of 2005. A further letter was forwarded to the Region by Sernas & Assoc identifying a slightly lower pipe invert elevation of 171.5 m at the pump station. It was agreed by all present at the meetings that given the preliminary nature of the analysis works to date, and that to be conservative, an incoming pipe elevation of 170.0 m from the Phase 3 lands will be carried in the pump station design.

As requested by Regional staff at our July 24th meeting we, along with Gord Patterson of Sernas & Associates have undertaken a further review of the potential Phase 3 grading and resulting sanitary sewer grades/inverts. We enclose a copy of our Figure 1 entitled, Sherwood Phase III Milton, Preliminary Sanitary Sewer Trunk drawing.

As shown on this Figure 1, a Phase 3 pipe invert of 175.25 m at the Pump Station results by extending the trunk sewer at sewer slopes ranging between 0.25% and 0.55% slope from its anticipated starting elevation at Britannia Road/Tremaine Road . The 0.25% slope is the same as that utilized through the Phase 2 lands north of Louis St Laurent Avenue for similar sized pipe.

Please note that this incoming sewer invert of 175.25 m results in a wet well invert elevation of 172.25 m which is 5m higher than that currently detailed on the MacViro drawings.

It should be noted that the current wet well design depth of 24m is based on a pump station finished ground elevation of 191.7m, which is essentially 1.3m above the elevation of the proposed Louis St Laurent Avenue road surface. Given that the lands naturally fall from north to south though this area, it would not be uncommon for the lands south of Louis St Laurent Avenue to be lower than the road elevation. As a result, we would suggest that the site grades be reviewed with a desire to lower the pump station finish ground grade by 1 to 2 meters (see Figure 2)

A combination of raising the wet well and lowering the finished ground grade of the pump station as described above, will have the net effect of reducing the total pump station depth from 24m to approximately 17m. This is essentially the same depth as the Mid Block Sewage Pumping Station constructed for Phase 1.

2. Our review of the David Schaeffer Engineering Limited trunk sanitary sewer design through the Phase 2 lands from the Union Gas pipeline south to the Louis St Laurent Pump Station confirms that the trunk sewer invert is at an average depth of 9m to 10m deep relative to existing ground. Likewise the maximum sewer depth through this stretch is 11m deep relative to existing ground. Anticipated fill may increase the maximum built depth to approximately 13m.

South of Louis St Laurent Avenue, as shown on the attached Figure 1, the average sewer depth is less than 10m and the maximum sewer depth from invert to existing ground is 13m. The maximum sewer depth is not expected to increase south of the pump station due to filling of these lands.

Sewers in the 9 to 13m depth range are considered to be deep, however, these are considerably shallower than previously anticipated. In addition, these sewers are shallower than those implemented in Milton Phase 1 which were installed at an average depth of 13 to 14m.

From a maintenance standpoint, it is proposed that the deep sewers through Phase 2 and Phase 3 be constructed of concrete pressure pipe to reduce the potential for future major maintenance.

It should also be noted that sewer depths much greater than 13 to 14m have been installed and maintained throughout the GTA Regions for many years.

3. The emergency overflow/storage issue identified by Region staff primarily impacts the Phase 3 lands as the current wet well and upstream trunk sewer provides the 4 hours of storage for the Phase 2 lands.

Once Phase 3 proceeds, sufficient storage and/or an emergency relief outlet will need to be constructed to ensure protection for the Phase 3 lands should a pump station failure occur.

With regards to the emergency overflow, we have revised our conceptual overflow drawing (TMIG February, 2006) to reflect the current updated elevations (see Figure 3).

We anticipate that a weir elevation of 182.9 would be implemented at the downstream manhole at Britannia Road. The downstream culvert inverts beneath Britannia Road are approximately 182.5 m and hence discharge of emergency overflow is available to protect basements within Phase 3 and Phase 2.

An analysis of the 4 hour storage criteria for the Phase 3 lands indicates that a storage volume of 400 m³ is required. This is based on the ratio of the Phase 3 drainage area to the Phase 2 drainage area and the storage requirement identified by MacViro for Phase 2 (i.e 950m³X 0.42)

The trunk sewer and manholes proposed in Phase 3 provides a storage of approximately 544m³ which is well in excess of the required 400m³. In addition we note that, when accounting for the average day flow in the sewers the flow volume is about 90% (based upon an analysis of MacViro results) which equals 490m³ which is in excess of the 4 hour storage volume required for Phase 3. This sewer has been sized to account for both conveyance and emergency storage.

Implementation of the proposed Phase 3 trunk sewer will have the appropriate characteristics required for proper pumping station design.

Given the size of this sewer, it is our expectation that this sewer will be classified as a D.C. sewer in the upcoming Development Charges update. This would be consistent with the Region's policy that any sewer over 450mm in size is classified as a development charge sewer.

4. A temporary access road easement has been established from Tremaine Road through the Varga lands and through the Fieldgate lands south of Louis St Laurent Avenue to the Pump Station site. This access road is anticipated to be in place until such time as a permanent access road is constructed either from the north or along the future Louis St Laurent Avenue road alignment. Easement documents have been prepared for this temporary access road and the owners are prepared to sign these documents upon finalization of details (i.e. liability insurance etc)
5. It is our understanding that a hydro pole line is required from First Line along the Louis St Laurent Avenue alignment to service the pumping station. A cost estimate of \$150,000 has been established for extending this overhead pole line to the pump station site. Given that this pole line will also service portions of the Phase 2B lands north of Louis St Laurent Avenue and the Phase 3 lands to the south, it is anticipated that a mechanism for cost recovery from the benefiting landowners can be established either through the Milton Hydro agreements or through Landowner Group cost sharing agreements.
6. With regard to the overall cost overrun, the Phase 3 Landowners indicated in our meeting that, in order to keep the pump station at the Louis St Laurent Avenue location, they were prepared to provide funding for the \$2,513,237 (As per the Region's cost estimates) shortfall that exists between alternative 3D and Alternative 2 (LSL Pumping Station). This funding can be in the form of a letter of credit or cash, whichever is preferred by the Region.

This funding will be provided by the benefiting landowners west of First Line which include the properties owned by Fieldgate Developments, Great Gulf

Homes, Townwood Homes, and GTA Realty. The actual company names are noted on the attached signature page.

It is proposed that this funding of the LSL PS be reimbursed by the Region to the Phase 3 Landowners as a credit towards funds required by the Region for the future allocation agreements that will be required in Phase 3.

The Phase 3 Landowners believe that this is a good option for the Region for the following reasons:

- It can be based on the current allocation agreement format.
- The rationale and approach for this type of funding has already been endorsed and implemented by the Region.
- This provides the Region with great amount flexibility in terms of repayment.

Summary

In closing, we have reviewed the various design issues associated with the Louis St Laurent Pump Station including the pump station depth, sewer depth, emergency storage, access, hydro distribution, and project overrun funding. We have found that:

- The pumping station depth can be reduced to 17m which is 7m shallower than currently designed and is consistent with the Phase 1 pump station depth
- The sewers depths through Phase 2 and Phase 3 average less than 10m deep. The trunk sewers through Phase 1 average 13m deep.
- Emergency overflow and storage can be provided for both the Phase 2 and Phase 3 lands
- A temporary access road easement is available
- A hydro pole line from First Line is required which benefits not only the pump station but also the Phase 2 and Phase 3 lands. Cost sharing mechanisms have been identified
- A cost over run financing proposal has been made by the Phase 3 landowners.

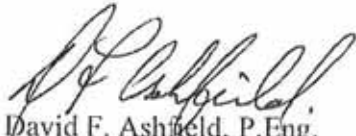
We believe that with these changes, and combined with the landowners financial proposal, the Louis St Laurent Pump Station is the best short term and long term solution. Given the substantial design works undertaken in this location to-date, it also represents the option which the Region is able to implement in the shortest timeframe.

Please note that as requested, the above provides an assessment for the Pump Station located at Louis St Laurent Avenue just east of Tremaine Road. We have not undertaken an assessment/comparison with the suggested alternative location 3D to the north within the Mattamy Phase 2B lands.

I trust that this is sufficient for your review and consideration and we look forward to discussing these with you further at our meeting on August 2, 2006. If you have any questions, or require further clarification, please do not hesitate to call.

Sincerely,

THE MUNICIPAL INFRASTRUCTURE GROUP LIMITED



David F. Ashfield, P.Eng.
Partner

G. V. PROPERTIES LTD.
G. A. A. PROPERTIES LTD.

Frank Varga

FOREPURCH INVESTMENTS INC. and
STAGSLEAP INVESTMENTS LTD.

Tony Guglietti

Pony Pines Development Inc.

Katy Schofield

1045502 Ontario Limited
1048605 Ontario Limited

Carlo Stefanutti

cc. Phase 3 Landowners
Gord Patterson
Myron Pestaluky
David Scott

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, April 18, 2011 8:40 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Halton Water and Wastewater Master Plan
Attachments: TUC Comments On Halton Water and Wastewater Master Plan.pdf

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Friday, April 15, 2011 6:00 PM
To: Campbell, Chris; Pawlus, Jacek
Cc: Duong, John; Bielawski, Magda; Huk, Dave; Hamel, Chris
Subject: FW: Halton Water and Wastewater Master Plan

Chris,

Here is public comments from Trout Unlimited Canada.

Jacek, can you ensure our mailing list is updated with this contact.

Thanks,

David

From: Bob Thomson [<mailto:bthomson@inlinesys.com>]
Sent: Friday, April 15, 2011 5:40 PM
To: Simpson, David
Cc: 'Silvia D'Amelio'; Jack Imhof; Jerry Smitka (smitka@rogers.com); Brian Greck (briangreck@rogers.com)
Subject: Halton Water and Wastewater Master Plan

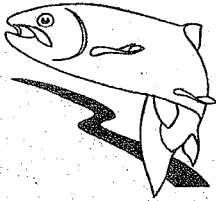
Dear Mr. Simpson:

On behalf of Trout Unlimited Canada and its Greg Clark Chapter, I am pleased to submit the attached comments on the Sustainable Halton Water and Wastewater Master Plan.

Thank you for affording us the opportunity to submit these comments at this date. If you require further clarification on our position, please feel free to contact us at any time.

Regards,

Bob Thomson
Chair, Ontario Council
Past President Greg Clark Chapter
Trout Unlimited Canada



**Trout Unlimited Canada
Greg Clark Chapter**

P.O. Box 1014, Station Q
Toronto, ON M5T 2P2
gcc@tucanada.org www.tucanada.org

April 15, 2011

Regional Municipality of Halton
Water Planning, Public Works
1151 Bronte Rd.
Oakeville, ON L6M 3L1

david.simpson@halton.ca

Attention: Mr. David Simpson, Water Planning, Public Works

Subject: Comments to Sustainable Halton Water and Wastewater Master Plan,
ESR Study

Dear Mr. Simpson,

The following comments have been prepared in response to the information made available on Halton Region's website. Presented below are the collective comments of the local TUC (Trout Unlimited Canada)-Greg Clark Chapter and TUC-Ontario. We would first like to thank you for allowing us to provide comments to mid April.

Trout Unlimited Canada is a National, Not for Profit, charitable conservation organization with over 4,000 members and 32 Chapters across Canada. Our member base is supported by professional and scientific staff to ensure that the best science possible is applied to the work that we undertake. Our mandate is to "Conserve, protect, and restore Canada's freshwater ecosystems and their coldwater resources for present and future generations." Our national conservation agenda identifies four key programs of activity: water quality, water quantity, fish populations and fish habitat. We place significant effort into the research, monitoring and support of native coldwater fish populations. Our chapters and members are science-directed, partnership-focused and action-oriented, becoming involved in habitat projects and watershed renewal programs



across Canada. We undertake the collection of information on aquatic habitat, water temperatures and water condition as part of our restoration planning.

With specific reference to Halton Region, we have been working for many years within the watersheds of Halton Region and Peel Region. Most recently and notably, our work has included water quality monitoring work as it is related to the Orangeville WWTP, the restoration of Atlantic salmon in the Credit River and the Bronte Creek watershed renewal program. Our work is closely linked with the work of the CVC and Halton conservation authorities, the Ministry of Natural Resources, and more recently the renewal of the Town of Orangeville's WWTP.

Our comments reflect the very general nature of Halton Region's Sustainable Water and Wastewater Master Plan as presented on the website.

The watercourses of Halton Region are under substantial stress. Although some improvements to water quality and fish populations have been seen, the CVC has indicated that the water quality of the Credit River has noticeably decreased over the past decade. Therefore we believe that all organizations and agencies need to consider the best possible means to protect and where possible improve water quality. A continual decline should not be an option.

The Master Plan identifies water and wastewater options for Halton Region to 2031. We have focused on Acton and Georgetown (Halton Hills) that appear to be reflective of the other watersheds. In brief, the Georgetown preferred option is to increase groundwater removal for a number of years and then to stabilize it and at the same time to pipe water from Lake Ontario to deal with its projected growth. All groundwater that is pumped would be treated at the existing Georgetown WWTP and released into Silver/Black Creek. There would be a need to increase capacity of the output of the WWTP to accommodate the proposal.

Comments within the Plan are very general in terms of environmental and ecological impacts such as the impacts would be low to moderate. There is no reference to or information on specific changes to historic or current base flows, assimilative capacities of the water courses, stream temperatures, etc., so how can these statements be substantiated? There appears to be an option of groundwater recharge that might be considered for return of wastewater but again there are no specifics. Water pumped from Lake Ontario whether directly

or via the Peel system should be returned to the lake for treatment. An additional concern is that the Region's starting point in terms of impacts appears to be from the current point and doesn't reflect historic conditions or even healthy, functional conditions. In order to create a sustainable system, we need to ensure that the natural system is as functional as possible, not consider each successive degraded state as the new standard for measurement.

The Acton Plan is similar but the increase in supply would be based on an increase in pumping from the existing supply wells plus a new well from groundwater and also the consideration of a groundwater recharge program. Based on the information, it appears that the additional pumping reflects about a 56% increase in supply. Again, there appears to be no specific information with respect to impacts on the stream ecosystem (Blue Springs Creek or Black Creek) including current and historic base flows, temperatures, etc. Black Creek is still a coldwater system though stressed by increases in loadings from the Acton STP. What innovative approaches to water use and waste water treatment is the Region considering to ensure a healthy functional system?

There is no information in terms of whether any municipality, conservation authority or other agency is comfortable with the Plan. However, we have heard informally that in Halton Hills some residents and at least some municipal representatives have concerns with the Region's approach of not having water conservation and efficiencies as the core of the Plan.

We have the sense that there has not been a great deal of emphasis placed on the impacts to the natural environment.

There is information at the beginning of the document with respect to improving household efficiencies but it doesn't appear that this is at the core of the Plan. The Region of Waterloo through an active water efficiency plan over the last 10 years has reduced water consumption in the Region by over 30%. Why are we not looking at that approach as well?

There is no information on what impacts climate change might have on groundwater supplies.

There is no information about a water conservation plan for Halton Region via a water conservation strategy.

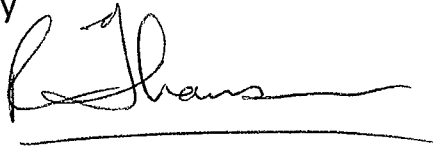
It also appears that any connection with the province's water opportunities and conservation act and source water protection strategies has not been acknowledged.

Based upon our comments, we cannot support the Master Plan as presented as the Plan's approach may have implications with respect to Trout Unlimited Canada's core policies with respect to fish populations and water quantity and quality.

Thank you for this opportunity to provide comment. If you have any questions regarding the comments, please feel free to contact our provincial biologist Ms. Silvia D'Amelio (519) 824-4120 ext 52760 or Mr. Bob Thomson (905) 478-8463 with the Greg Clark Chapter.

We look forward to receiving a copy of you reply.

Sincerely

A handwritten signature in black ink, appearing to read 'Bob Thomson', written over a horizontal line.

Trout Unlimited Canada
Bob Thomson
Greg Clark Chapter



ORLANDO CORPORATION

6205 Airport Road, Mississauga, Ontario L4V 1E3 Telephone: (905) 677-5480 Fax: (905) 677-2824

via email to david.simpson@halton.ca

March 11, 2011

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd.
Oakville, ON L6M 3L

**Re: Sustainable Halton Water and Wastewater Servicing Master Plan
Public Information Meeting No. 2**

We wish to thank the Region of Halton for the opportunity to provide comments regarding its Water and Wastewater Master Servicing Plan.

In general we support the Region's long range plan to develop a water and wastewater infrastructure strategy to serve both the current and future residents and businesses within the Municipality. However, we have concerns regarding the future build-out of the program, specifically as it relates to accommodating growth currently projected within the 2031 time horizon.

In recent years, Orlando Corporation has provided the Region with employment studies showing densities within the warehouse and distribution industry continue to decline, and are significantly below what is typically being assumed for planning purposes by municipalities in the GTA, including Halton. Given the Region has been mandated to accommodate employment per the Provincial Growth Plan, it is imperative for the Region to plan its future infrastructure needs around current market conditions together with trending data for each of the relevant employment markets it serves.

We know the planned growth of 137,000 employees in Halton Region (per the PIC information) will be accommodated in an array of employment types and built forms. However, we also know warehouse and distribution facilities will strategically locate along the 401 corridor and will consume vast amounts land with fewer employees due in large part to advances in automation. As a result, the lands currently designated along the Trafalgar/Derry and the Halton Hills corridors will not be sufficient enough to accommodate the employment targets for this sector of the market; consideration must be given to accommodating additional lands outside those designated through the conformity exercise (i.e. ROPA 38).

Mr. David Simpson
March 11, 2011
Page 2



In summary, Orlando respectfully requests the Region give ample consideration to accommodating future employment lands specifically as it relates to providing adequate servicing capacity beyond the lands currently designated. We believe these additional lands will be required within the 2031 time horizon if the Region intends on meeting its employment target objectives.

We look forward to working with the Region in an effort to advance its population and employment growth objectives.

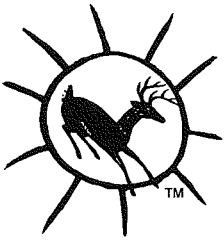
Yours truly,

ORLANDO CORPORATION

A handwritten signature in blue ink, consisting of stylized, overlapping loops and a long horizontal stroke extending to the right.

Blair Wolk, MBA, P.Eng.
Director of Development

c.c.: Mr. Chris Hamel, AECOM (via email to chris.hamel@aecom.com)



Chippewas of RAMA
First Nation

5884 Rama Road, Suite 200

Rama, Ontario L0K 1T0

T 705.325.3611 F 705.325.0879

A Proud Progressive First Nation Community

February 14, 2011

AECOM

105 Commerce Valley Drive West, Floor 7
Markham, ON L3T 7W3

Attention: Chris Hamel, Project Manager

**Re: Sustainable Halton Water and Wastewater Master Servicing Plan
Municipal Class Environmental Assessment Study**

Dear Mr. Hamel:

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of February 3, 2011, which was received on February 7, 2011.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Please direct all future correspondence and inquiries, with a copy to Rama First Nation, to Ms. Sandy-McKenzie at 8 Creswick Court, Barrie, ON L4M 2J7 or her e-mail address at k.a.sandy-mckenzie@rogers.com. Her telephone number is (705) 792-5087.

We appreciate your taking the time to share this important information with us.

Sincerely,



Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties First Nations
Chief Roland Monague Portfolio Chief for Williams Treaties Nations

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, March 14, 2011 1:04 PM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Wastewater and Water EA - PIC #2 Response Letter
Attachments: YTC PIC 2 response.pdf

From: Peter W. Meiklejohn [<mailto:pmeiklejohn@yorktrafalgar.com>]
Sent: Friday, March 11, 2011 12:26 PM
To: Campbell, Chris
Subject: FW: Wastewater and Water EA - PIC #2 Response Letter

Dear Mr. Campbell,

As per Chris' out of office notification, please find attached York Trafalgar Corp.'s letter in response to the Region of Halton's Water and Wastewater EA, PIC #2.

Sincerely,

Peter W. Meiklejohn, P. Eng.

York Trafalgar Corp.
1039 Fourth Line
Milton, Ontario. L9T 6P9
Cell: +1 416 909 6724
Phone: +1 905 878 9396

Fax: = +1 905 878 1886
pmeiklejohn@yorktrafalgar.com

THIS MESSAGE IS INTENDED FOR THE ADDRESSEE, IT MAY CONTAIN PRIVILEGED OR CONFIDENTIAL INFORMATION. ANY UNAUTHORIZED DISCLOSURE IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS MESSAGE IN ERROR, PLEASE NOTIFY US IMMEDIATELY SO THAT WE MAY CORRECT OUR INTERNAL RECORDS. PLEASE THEN DELETE THE ORIGINAL MESSAGE. THANK YOU.

From: Peter W. Meiklejohn [<mailto:pmeiklejohn@yorktrafalgar.com>]
Sent: Friday, March 11, 2011 12:19 PM
To: 'david.simpson@halton.ca'; 'chris.hamel@aecom.com'
Cc: 'dave.andrews@halton.ca'; 'kiyoshi.oka@halton.ca'
Subject: Wastewater and Water EA - PIC #2 Response Letter

Gentlemen,

Please find hereto our letter to the Region. Originals will be delivered later today, or by general mail.

Sincerely,

Peter W. Meiklejohn, P. Eng.

York Trafalgar Corp.

1039 Fourth Line

Milton, Ontario. L9T 6P9

Cell: +1 416 909 6724

Phone: +1 905 878 9396

Fax: = +1 905 878 1886

pmeiklejohn@yorktrafalgar.com

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YORK TRAFALGAR
C O R P O R A T I O N

March 11, 2011

Regional Municipality of Halton
1151 Bronte Rd.
Oakville ON.
L6M 3L1

Attention: Mr. David Simpson
Water Planning, Public Works

**Re: Sustainable Halton Water and Wastewater Servicing Master Plan
Class Environmental Assessment**

Dear Mr. Simpson:

Thank you for giving us the opportunity to comment on the “Sustainable Halton Water and Wastewater Master Plan” study. Schedule A attached is a list of the individuals and companies which support this response.

Please accept this letter as our support for the recommendations of the report and in particular the “Preliminary Preferred Wastewater Servicing Strategy”. Although we are still in the process of reviewing all of the Phase 2 background documents that have been provided to date, we fully support the overarching strategy of extending wastewater services along Britannia Rd to the Trafalgar Corridor. This investment combined with the provision of water services will enable the Regional Municipality of Halton to take advantage of the last remaining undeveloped superblock in the Greater Toronto Area - lands which have the highest concentration of under-utilized unproductive public sector capital investment in the Greater Golden Horseshoe.

In our view, the flexibility, phasing and system security features (i.e. built in system redundancy); of the servicing strategy are critical success factors in addressing and preparing for the future market demand, particularly in attracting high order forms of development to the Region. We believe major development opportunities are ready to expend in Milton and we view the preferred planning options as developed through the Class EA planning process is an essential step towards achieving our collective goals.

.....2/

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 11, 2011
Page 2 of 4

By unlocking the economic production functionality of the Trafalgar corridor lands, both the higher order employment lands near Highway 401 - 407, and the residential lands along its serviceable length, the Region will have a clean palette on which to position growth, accommodate new and emerging knowledge based enterprises as the Great Lakes Basin transitions from an industrial/manufacturing base. By aligning economic opportunity with the impressive array of natural resources and quality of life attributes in our community, solid new business enterprises will be attracted to the Region in an ongoing basis, for years to come. This approach represents both a 'best use' of land approach and the financial foundation which will enable the most economic (revenue and cost effective) approach towards addressing concerns of phasing and the cost of implementation in the evaluation presented on slide 16 of PIC #2.

Through our own independent analysis, which includes respecting the rapid development of the 401 corridor westerly from the Toronto Pearson International Airport to Halton's doorstep, we have concluded that the Region will see demand for its 401 - 407 frontage materialize far sooner than officially anticipated.

The following are some specific concerns, questions and comments we wish to receive responses to on matters arising during our preliminary review of the materials provided:

- Page 4 of the cover report subheading Background notes that the population and employment counts are expected to grow by 300,000 and 170,000 respectively but Slide 3 "Objectives" uses the figures 257,551 and 137,104. Please clarify;
- Slide 4 Exhibit A.2 (Municipal Class EA Planning and Design Process) – It is indicated that we are at Step 5, in Phase 2 of the Class EA process. Given all work that has been completed as part of Steps 2, 3 and 4 in Phase 2 and in addition to Slide 10, which indicates the 'Twelve Point' evaluation criteria we would appreciate the opportunity to review the sub-reports supporting the Class EA process prior to filing;
- Slide 7 Planning Projections – The note on the upper box refers to, "...does not include rural employment", we assume this should read '...does not include rural population'. This is also the source of the numbers referred to above;

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 11, 2011
Page 3 of 4

- In addition to the Twelve Point' evaluation criteria Slide 10 also refers to both Water Strategies Evaluation and Water Strategies Evaluation, we would like the opportunity to review the detailed background material and/or specific reports for each of the evaluation criteria at your earliest convenience;
- Slide "Preliminary Preferred Wastewater Servicing Strategy" – We assume the capacity of the pumping station now under design and the short gravity wastewater pipe between the Fourth Line and Fifth Line feeding the pumping station will be re-designed to accommodate all of the projected flows along Britannia;
- Slide 16 – Can you share with us the underlying cost assumptions, estimated component breakdown and the component construction timing?;
- Overall we believe that all pumping stations and pipes should be based on an ultimate capacity within the life of the pipe. The economics of having to upgrade pipes within their design life is prohibitive and unreasonable in this economic environment, given the marginal cost to oversize these pipe during the design process today;
- Please inform us when Halton Region intends on filing this Environmental Assessment Report; and
- We would like to formally request a copy of the final Environmental Study Report submitted for public review.

Notwithstanding our request for clarification and review of the supporting documents and our understanding of the "Traceability" provisions of the Environmental Assessment Act and Guidelines; with that understanding, we reiterate our support of the recommendations of the Class EA process to date and in particular the "Preliminary Preferred Wastewater Servicing Strategy" being finalized in preparation of filing for public review.

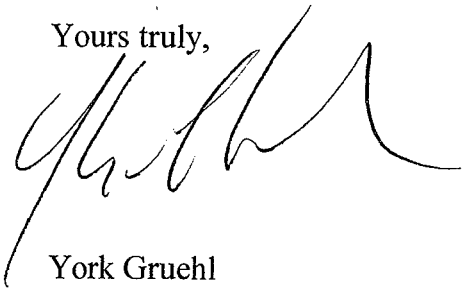
.....4/

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 11, 2011
Page 4 of 4

We look forward to meeting with you at the earliest opportunity.

Again on behalf of the firms listed in Schedule "A", thank you for giving us the opportunity to not only comment, but, to build on the momentum developed through the Sustainable Halton process.

Yours truly,

A handwritten signature in black ink, appearing to read 'York Gruehl', written in a cursive style.

York Gruehl

Attached: Schedule "A" Land Owners in support of this letter

Copy to:

Kiyoshi Oka, P.Eng., Director, Water Services

David M. Andrews, Acting Director of Wastewater Services

Mr. Chris Hamel - AECOM
105 Commerce Valley Drive West
Markham, ON, L3T 7W3

SCHEDULE "A"

York Trafalgar Corp. 770 Acres
Attn: Mr. York Gruehl
1039 Fourth Line
MILTON, Ontario
L9T 6P9

Tel: 905 878 9396
Fax: 905 878 1886

492599 Ontario Limited 44 Acres
c/o Garden Park Homes
Attn: Mr. Tony Gallace
800 Arrow Road, Unit 6
WESTON, Ontario
M9M 2Z6

Tel: 416 745 4475
Fax: 416 745 4476

Manaman Developments Inc. 226 Acres
Attn: Mr. Wicklow So
Tel: 905 940 2373
Fax: 905 940 8449

Muddy Duck Restaurants Inc. 86 Acres
Attn: Mr Mark Rinas, Mr. Karl Niermann
markrinas@mac.com



March 9, 2011

Project: 08-273

David Simpson, P.Eng.

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

**Re: Sustainable Halton Water and Wastewater Master Plan Municipal Class
Environmental Assessment Study, PIC # 2**

On behalf of the Milton Phase 3 Landowners Group (lands located within the Town of Milton's Boyne Survey Secondary Plan Area) we attended the February 22, 2011 Public Information Centre No. 2 and offer the following preliminary comments:

- We require more detail on the cost estimates prepared for the water and wastewater servicing strategies.
- Further discussion is required regarding the location of the wastewater pumping station, allowable sewer depths and forcemain locations.
- Further discussion is required regarding maximizing the capacity of existing water and wastewater infrastructure.

We appreciate the Region's invitation to the technical meeting on Thursday March 31, 2011 to discuss the above comments in more detail. Further, we would also appreciate the opportunity to provide you with additional comments on the water and wastewater servicing strategy following our technical meeting.

Regards,
Urbantech Consulting


J. David Leighton, C.E.T.
Senior Partner

cc: Carmela Liggio, Delta Urban c/o Milton Phase 3 Landowners Group

March 10, 2011
Project 06108

The Regional Municipality of Halton
Water Planning, Public Works
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

Attention: Mr. David Simpson, P.Eng.

Subject: Sustainable Halton Water and Wastewater Master Plan - PIC # 2

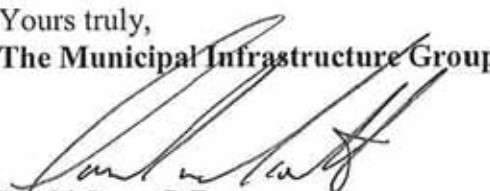
Dear David:

On behalf of the Fieldgate Developments, we attended the February 22, 2011 Public Information Centre No. 2 and offer the following comments:

- Our client, Fieldgate Developments, own lands within the Boyne Survey Community on the north side of Britannia Road, immediately east of 16 Mile Creek.
- We are concerned about the location of the Britannia Road Sanitary Pump Station, as shown on the Region's "Preliminary Preferred Wastewater Servicing Strategy" display board as we believe it will result in the un-necessary depth of local sanitary sewers through the Boyne Survey west lands.
- We support the location of the Britannia Road Sanitary Pump Station as shown just east of 16 Mile Creek in the current South Halton Water and Wastewater Master Plan update.

Thanks for inviting our participation in this project and we look forward to working with the Region and AECOM to refine the preferred water and wastewater servicing strategy for the Sustainable Halton lands.

Yours truly,
The Municipal Infrastructure Group



David Scott, P.Eng.
Founding Partner

cc Colin Chung, GSAI
Carlo Stefanutti, Fieldgate Developments



8800 Dufferin Street
Suite 200
Vaughan, Ontario
L4K 0C5

tel: 905.738.5700
fax: 905.738.0065
1 888.449.4430
info@tmig.ca
www.tmig.ca



March 10, 2011
Project 06108

The Regional Municipality of Halton
Water Planning, Public Works
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

Attention: Mr. David Simpson, P.Eng.

Subject: Sustainable Halton Water and Wastewater Master Plan - PIC # 2

Dear David:

On behalf of the Britannia South Landowners Group we attended the February 22, 2011 Public Information Centre No. 2 and offer the following comments:

- The majority of the infrastructure identified in the “Preliminary Preferred Wastewater Servicing Strategy” figures is intended to service three primary new growth areas, namely Georgetown, Milton East, and Britannia North/South Lands (west of 6th Line).
- The Region’s “Preliminary Preferred Wastewater Servicing Strategy” figures show that substantial trunk sewer and pumping station infrastructure is required to extend wastewater servicing to the Georgetown lands and the Milton East lands.
- The Region’s “Preliminary Preferred Wastewater Servicing Strategy” figures also show that the Britannia South lands are to be serviced by a new Sanitary Pump Station and a new forcemain crossing of the 16 Mile Creek at a southerly location near Lower Base Line.

8800 Dufferin Street
Suite 200
Vaughan, Ontario
L4K 0C5

tel: 905.738.5700
fax: 905.738.0065
1 888.449.4430
info@tmig.ca
www.tmig.ca

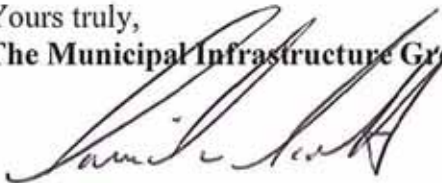
- Based on our analysis, we believe that the Britannia North/South lands can be serviced by the Britannia Road trunk sewer and Sanitary Pump Station without the need for further deepening to service the Britannia South lands. This Britannia Road SPS is anticipated to be constructed in advance of any development of the Sustainable Halton lands, in order to service the Milton Phase 3 lands (MP3) and the Derry Green Business Park lands (BP2). We believe that the design of this SPS, when undertaken, can be done in a manner which provides for the future pump station expansion to accommodate wastewater flows from the entire Sustainable Halton lands, including the Britannia South lands.
- By providing for the expansion of the Britannia SPS to accommodate wastewater flows from the entire Sustainable Halton lands, including the Britannia South lands, the Region will:
 - Eliminate the need for an addition SPS at Lower Base Line (reducing both capital and life cycle costs)
 - Eliminate the need for an additional crossing of the environmentally sensitive 16 Mile Creek
 - Make good use of the existing infrastructure being constructed for the other proposed development areas
- It appears from the Regions figures that the proposed Lower Base Line SPS and 16 Mile Creek outfall crossing creates the “Opportunity to defer ultimate servicing from Lower Baseline infrastructure”. Given that the Britannia Road SPS will be constructed in advance in order to service the MP3 and BP2 lands, this existing infrastructure would create a potential “plug and play” servicing solution for the Britannia South and Britannia North lands with relatively minimal additional capital expenditure. This would permit the development of a fairly substantial area, which in turn will generate substantial Development Charges funds with relatively limited Development Charge expenditures by the Region.
- The Development Charge reserves which will be generated by the above solution will substantially aid in the funding of the extensive trunk sewer extension and additional sanitary pump stations which are required to service future growth in Milton East and Georgetown.
- The Region’s display boards provide a summary of anticipated costs to implement the preferred water and wastewater servicing strategies. We have also undertaken preliminary cost estimates and we would be pleased to share with the Region our thoughts on funding, phasing, and infrastructure timing.

While the above provides an overview of our comments, these comments will be expanded upon in a subsequent detailed submission which we anticipate forwarding to the Region by Friday March 25th.

We appreciate the Region's organization of the technical meeting on Thursday March 31, 2011 and we look forward to reviewing our detailed comments with the Region at that time.

Thanks for inviting our participation in this project and we look forward to working with the Region and AECOM to refine the preferred water and wastewater servicing strategy for the Sustainable Halton lands.

Yours truly,
The Municipal Infrastructure Group

A handwritten signature in black ink, appearing to read 'David Scott', written over the company name.

David Scott, P.Eng.
Founding Partner

cc Colin Chung, GSAI
Chris Hamel, AECOM
Carlo Stefanutti, Fieldgate Developments
Colin McGregor, Trinison Management Corp.
Paul Brown, MTE



ALDERVILLE FIRST NATION
P.O. Box 46
11696 Second Line
Roseneath, Ontario K0K 2X0

Chief:	James R. Marsden
Councillor:	Dave Mowat
Councillor:	Pam Crowe
Councillor:	Leonard Gray
Councillor:	Randall Smoke

February 16, 2011

Att: David Simpson

**Re: Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

Dear David,

Thank you for your consultation request to Alderville First Nation regarding the **Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study**, which is being proposed within our Traditional and Treaty Territory. We appreciate the fact that **Halton Region** recognizes the importance of First Nations Consultation and that your office is conforming to the requirements within the Duty to Consult Process.

Although we may not always have representation at all stakeholders meetings, it is our wish to be kept apprised throughout all phases of this project. I can be reached at the contact information below.

In good faith and respect,

Dave Simpson
Lands and Resources
Communications Officer
Alderville First Nation

dsimpson@aldervillefirstnation.ca

Tele: (905) 352-2662
Fax: (905) 352-3242

Bhabha, Fatima

From: Campbell, Chris
Sent: Thursday, February 17, 2011 11:54 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Halton Region-Wastewater Master Plan
Attachments: Halton Region-Wastewater Master Plan.pdf

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Wednesday, February 16, 2011 5:08 PM
To: Campbell, Chris
Subject: FW: Halton Region-Wastewater Master Plan

FYI

From: Melanie Arthur [<mailto:marthur@aldervillefirstnation.ca>]
Sent: Wednesday, February 16, 2011 3:10 PM
To: Simpson, David
Subject: Halton Region-Wastewater Master Plan

Dear David,

Please view the attached consultation response in regards to your project.

Thank you and have a great day!

Melanie Arthur
Lands and Resources Communications Clerk
Alderville First Nation

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you



ALDERVILLE FIRST NATION
P.O. Box 46
11696 Second Line
Roseneath, Ontario K0K 2X0

Chief:	James R. Marsden
Councillor:	Dave Mowat
Councillor:	Pam Crowe
Councillor:	Leonard Gray
Councillor:	Randall Smoke

February 16, 2011

Att: David Simpson

**Re: Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study**

Dear David,

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Although we may not always have representation at all stakeholders meetings, it is our wish to be kept apprised throughout all phases of this project. I can be reached at the contact information below.

In good faith and respect,

Dave Simpson
Lands and Resources
Communications Officer
Alderville First Nation

dsimpson@aldervillefirstnation.ca

Tele: (905) 352-2662

Fax: (905) 352-3242

VARGA, GATKA, SCHULLER
Part East Half Lot 9 Con 8
Trafalgar New Survey
Town Of Milton

March 11 2011

VIA FAX & EMAIL

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville ON.
L6M 3L1

Dear Mr. Simpson:

Re: PIC #1 Sustainable Halton Water and Wastewater Servicing Master Plan

After attending the open house meeting in Milton I found it well organized and informative and am responding to your kind invitation for comments. After discussion with my fellow co-owners we have the following comments:

1. We support the "Preliminary Preferred Water and Wastewater Servicing Strategy". In particular it is a wise choice to locate a pump station near Britannia and Trafalgar Rd as this is a low point for the lands located to the west and north of the Trafalgar Moraine. Thousands of acres of land in the immediate area are tributary to this low point. I also note that Georgetown and the Hwy 401 / Steeles corridor can also flow by gravity to this low point.
2. In addition to oversizing the Britannia Sanitary Pipeline for the expansion lands north and south of Britannia Rd, it seems economically prudent to also oversize the pipeline in anticipation of the Trafalgar Corridor, Steeles Corridor and Georgetown needs, hopefully minimizing future DC charges.
3. Given that roads are a large part of DC's may we suggest that taking advantage of the Trafalgar Rd corridor (North south Oakville & Georgetown access) with its easy access to Hwy 401 (soon to be widened east of East of Trafalgar Rd), Hwy 407 at Derry and Britannia Roads, and planned GO station, will reduce the road component of DC's and thereby help fund the costs of the sanitary mains.

4. Investing in the Trafalgar / Hwy 401 & 407 /Steeles Corridor may generate a balanced blend of residential and commercial/employment tax revenues for the towns and the region to make this project financially palatable.

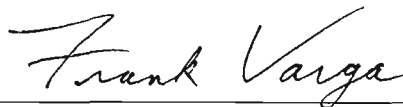
Our lands are located as follows;

Part of East Half of Lot 9 Concession 8, Trafalgar New Survey, being about 93 acres.
(second farm south of Derry Rd on the West side of 8th Line).

We also request to be put on your mailing list and provide contact information as follows:

Frank Varga
41 Clarinda Drive,
NORTH YORK ON M2K 2W4
416 733-8155

Yours truly,



Frank Varga

Copy to:

Kiyoshi Oka, P.Eng., Director, Water Services
Kiyoshi.oka@halton.ca
David M. Andrews, Acting Director of Wastewater Service
David.andrews@halton.ca

Mr. Chris Hamel - AECOM
Chris.hamel@aecom.com

Via: **Fax Transmission**

Time: 11:15 am
Date: March 11 2011
From: Frank Varga

Pages: 3

To: David Simpson,
Water Planning Public Works
RM of Halton

Fax: 416 512-1865
Tel: 416-733-8155

Fax 905 825-8822
Tel: 905 825-6000 X 7601

Response to Sustainable Halton W & WW Master Plan PIC

VARGA, GATKA, SCHULLER
Part East Half Lot 9 Con 8
Trafalgar New Survey
Town Of Milton

March 11 2011

VIA FAX & EMAIL

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville ON.
L6M 3L1

Dear Mr. Simpson:

Re: PIC #1 Sustainable Halton Water and Wastewater Servicing Master Plan

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2. In addition to over sizing the Britannia Sanitary Pipeline for the expansion lands north and south of Britannia Rd, it seems economically prudent to also oversize the pipeline in anticipation of the Trafalgar Corridor, Steeles Corridor and Georgetown needs, hopefully minimizing future DC charges.
3. Given that roads are a large part of DC's may we suggest that taking advantage of the Trafalgar Rd corridor (North south Oakville & Georgetown access) with its easy access to Hwy 401 (soon to be widened east of East of Trafalgar Rd), Hwy 407 at Derry and Britannia Roads, and planned GO station, will reduce the road component of DC's and thereby help fund the costs of the sanitary mains.

4. Investing in the Trafalgar / Hwy 401 & 407 /Steeles Corridor may generate a balanced blend of residential and commercial/employment tax revenues for the towns and the region to make this project financially palatable.

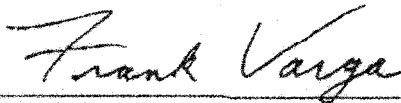
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Part of East Half of Lot 9 Concession 8, Trafalgar New Survey, being about 93 acres.
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We also request to be put on your mailing list and provide contact information as follows:

Frank Varga
41 Clarinda Drive,
NORTH YORK ON M2K 2W4
416 733-8155

Yours truly,



Frank Varga

Copy to:

Kiyoshi Oka, P.Eng., Director, Water Services
Kiyoshi.oka@halton.ca
David M. Andrews, Acting Director of Wastewater Service
David.andrews@halton.ca

Mr. Chris Hamel - AECOM
Chris.hamel@aecom.com

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, May 02, 2011 11:34 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Regional servicing for Georgetown and Halton Hills 401 Employment lands
Attachments: SWGLOG 06003.pdf

From: Gordon Patterson [<mailto:gpatterson@sernasgroup.com>]
Sent: Wednesday, April 27, 2011 1:58 PM
To: Zamojc, Mitch; Duong, John; Dennis Perlin; Chris Mills; ernie@countryhomes.ca; elvio@lormelhomes.com; john@lormelhomes.com; Jason Sheldon; Harry L. Edwards ; libfeld3423@rogers.com; Gary Gregoris; Annibale, Quinto; bobd@wndplan.com; Gordon Patterson; Myron Pestaluky; Carmela Liggio; dschaeffer@dsel.ca; Peter Campbell
Cc: Scott Passmore
Subject: Regional servicing for Georgetown and Halton Hills 401 Employment lands

Please find attached our comments on the Sustainable Halton Water and Wastewater Master Plan and our proposal for interim servicing for Georgetown and Halton Hills 401 Employment lands submitted on behalf of the South West Georgetown Landowners Group.

<<SWGLOG 06003.pdf>>

Gordon W. Patterson, P.Eng.
Principal
The Sernas Group Inc.

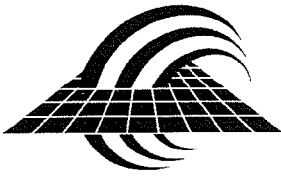
141 Brunel Road, Mississauga, L4Z 1X3

Phone: 416-213-7121
Mobile: 416-258-2003

gpatterson@sernas.com

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Thank you



April 27, 2011

Region of Halton
1151 Bronte Road
Oakville ON
L6M 3L1

Attention: Mr. Mitch Zamojc,
Commissioner of Public Works

Dear Sir:

**Re Sustainable Halton Water and Wastewater Master Plan
Regional Municipality of Halton
Our Project No. 06003**

Geomorphic Solutions
Nexgen Utilities
Sernas Associates
Sernas Transtech
SRM Associates

We are writing on behalf of the Southwest Georgetown Landowners Group (SWGLOG) who collectively own approximately 405 hectares (1000 acres) of the lands in the Region's identified expansion area bounded by Trafalgar Road, 15th Sideroad, Main Street/8th Line and 10th Sideroad. We attended the recently held PIC for the Sustainable Halton Water and Waste Water Servicing Plan and the technical session held on March 31st.

Georgetown Water Servicing Concepts

We support the Preferred Water Servicing Strategy for Georgetown with the understanding that the Zone 4 Reservoir will be proceeding to construction in the near future. We agree that providing lake based water from the proposed Zone 4 Reservoir northward on Trafalgar Road from 5th Sideroad provides a cost efficient and timely connection point for the South West Georgetown Lands.

Georgetown Wastewater Servicing

We support the general intention of the Preferred Wastewater Servicing Strategy for Georgetown, that being, lake based servicing will be extended through Halton Region to Georgetown in order to provide for the servicing of South West Georgetown lands and to make capacity available for intensification in the existing urban area. However, we have two major concerns with Preferred alignment.

Firstly, the Preferred Wastewater Servicing Strategy proposes that the trunk sewer going south from Georgetown will go down Ninth Line from 10th Sideroad to Steeles Avenue. We understand from our conversations with Regional staff that this alignment was chosen so that the existing urban lands in south Georgetown could drain by gravity to the new sewer. We studied this alignment and have determined that sewer depths of over 20m would be required. We are concerned with the costs and risks involved with constructing a sewer at this depth. We would instead recommend that the trunk sewer be built down Eighth Line from 10th Sideroad to Steeles Avenue.



Region of Halton
Mr. Mitch Zamojc
April 27, 2011
Page 2

We recognize this would result in flows continuing to be pumped from the existing pumping stations along 10th Line, but we feel this is preferable to the depths required for the Ninth Line alignment. We would suggest the Region look at taking advantage of the interconnection between the Main Street/Arborglen Drive Pumping Station and the Silver Creek Trunk sewer as a way to avoid having to get all of the areas south of Silver Creek to the proposed Eighth Line trunk.

Secondly, the alignment in the Preferred Wastewater Servicing Strategy would take the gravity flows from Georgetown southward from the 401 down Trafalgar Road through the Milton East expansion area. While this may be an acceptable ultimate servicing solution, this would result in any future in the Georgetown area, whether by intensification or in the expansion area, being dependent on development in the Milton East expansion area. Given the relatively large supply of development land in Milton and the restricted supply in Georgetown, this would likely leave Georgetown again with little or no development. It might also impede the development of the Halton Hills employment lands north of Steeles Avenue. If the Trafalgar Road alignment is selected as the final preferred alternative we believe it is imperative that an interim scheme be identified.

Proposed Interim Wastewater Servicing

In examining the options for interim wastewater servicing our goal was to provide a continuous and reliable servicing for:

1. Intensification opportunities within the existing Georgetown urban boundary, beyond the existing target population;
2. Build out of the existing Halton Hills employment lands along the 401 Corridor
3. Development of the proposed Halton Hills employment lands north of Steeles Avenue; and
4. Development of the proposed South west Georgetown expansion lands.

Step One (Existing Conditions) - Construct a wastewater sewer from the existing sewer on Steeles Avenue up Eighth Line to 10th Sideroad. This will require a short length of existing gravity sewer on Steeles Avenue to be rebuilt. Flows from this sewer would go through the existing system of pumping stations, forcemains and sewers to the existing 4th line trunk south of the 401. The capacity of the unbuilt employment lands east of Trafalgar Road and unserviced employment lands west of Trafalgar Road would be utilized to provide capacity for the controlled development of all of the above identified lands.



Region of Halton
Mr. Mitch Zamojc
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This would allow the development of the Southwest Georgetown lands. It would also provide for intensification within the existing Georgetown urban boundary when the existing capacity in the Georgetown WWTP is used up, by providing an outlet for existing development in the existing Georgetown Urban Area south of Silver Creek to be transferred. Development in the Employment lands north of Steeles Avenue from 6th Line to just east of Eighth Line sewer would utilize the new Eighth Line sewer and the existing sewers along Steeles Avenue.

Step Two (Through Business Park II Trunk) - Construct the Pumping Station proposed in the Master Plan on Steeles Avenue just east of Eighth Line. In the ultimate this pumping station will outlet to the existing sewer along Steeles Avenue or the future trunk on Trafalgar Road south of the 401. In the interim it would pump west on Steeles Avenue and south on Fifth Line to the proposed Business Park II trunk. Sewers would be built on Steeles Avenue between Eighth Line and Ninth Line (south). This would allow flows to be diverted temporarily from the Eighth Line trunk sewer from Georgetown to the Eighth Line Pumping station and also provide servicing for the employment lands north and south of Steeles.

Step Two would make available further capacity for all Georgetown and employment lands and specifically allow development of the employment lands north and south of Steeles Avenue from Trafalgar Road to Ninth Line (south).

Step Three (Through Milton East Trunk) – Construct Trafalgar Road sewer south of 401 and ultimate pumping station at Britannia Road. Remove forcemain from Eighth Line PS to Business Park II sewer and reconnect to the new Milton East Trunk. This provides ultimate capacity for all areas of Georgetown and the Halton Hills employment lands along Highway 401.

The SWGLOG acknowledges that growth must pay for itself and that prior to growth proceeding in Georgetown, a new Regional DC and Regional Council approved financing plan must be in place. It is within this context that the SWGLOG would participate with the purpose of assisting in the finance and the construction of servicing of Georgetown.

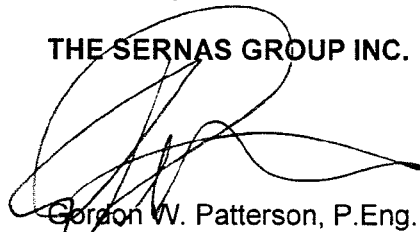


Region of Halton
Mr. Mitch Zamojc
April 27, 2011
Page 4

We would appreciate the opportunity to discuss the details of our proposed interim servicing proposal at your earliest convenience.

Yours truly,

THE SERNAS GROUP INC.



Gordon W. Patterson, P.Eng.
Principal

GWP/br

c.c. Region of Halton, Attn: Mr. John Duong
Town of Halton Hills, Attn: Mr. Dennis Perlin
Town of Halton Hills, Attn: Mr. Chris Mills
Southwest Georgetown Landowners Group
Delta Urban Inc., Attn: Mr. Peter Campbell
Walker Nott, Dragicevic Associates Ltd., Attn: Mr. Robert Dragicevic
Loopstra Nixon McLeish, Attn: Mr. Quinto Annibale

FILE: S:\PROJECT FILES - SA\2006\06003 - SOUTHWEST GEORGETOWN LANDS\EXISTING SANITARY SERVICING SCHEMATIC\PDF\06003-SAN-OPT-STEP 1 & 2.DWG

STEP 1 - USING INFRASTRUCTURE ON STEELES AVENUE

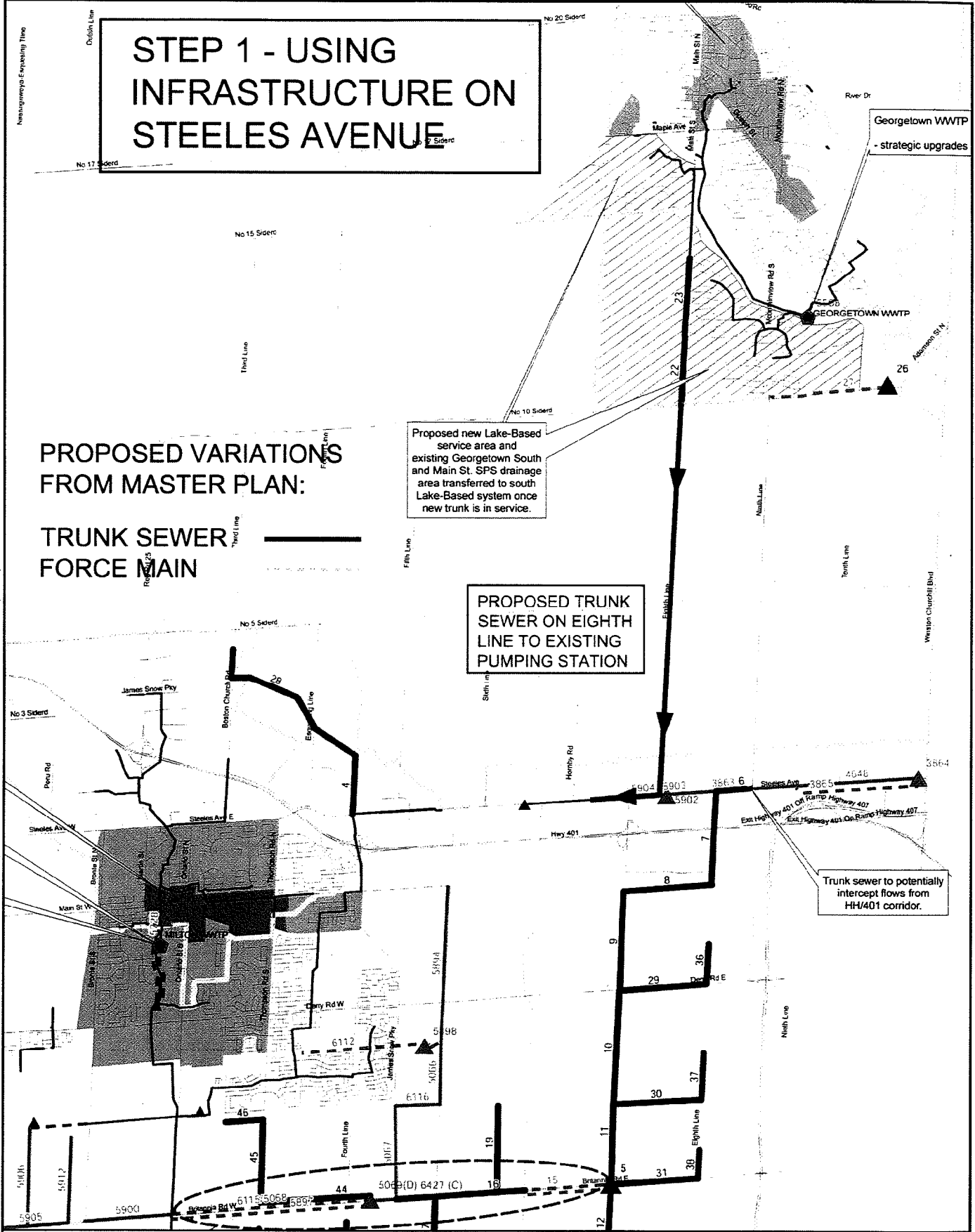
PROPOSED VARIATIONS FROM MASTER PLAN:

TRUNK SEWER FORCE MAIN

Proposed new Lake-Based service area and existing Georgetown South and Main St. SPS drainage area transferred to south Lake-Based system once new trunk is in service.

PROPOSED TRUNK SEWER ON EIGHTH LINE TO EXISTING PUMPING STATION

Trunk sewer to potentially intercept flows from HH/401 corridor.



COMMENTS:

STEP 1 - USING EXISTING INFRASTRUCTURE ON STEELES AVENUE

SERNAS ASSOCIATES
(A Member of the Sernas Group Inc.)



141 Stone Road
Massauga, OH
44210
T 416.213.7121
F 905.890.8496
sernas.com

SANITARY SERVICING CONCEPT

PROJECT No.
06003

DRAWING No.
ST-1

File: : S:\PROJECT FILES - SA\2006\06003 SOUTHWEST GEORGETOWN LANDS\EXISTING SANITARY SERVICING SCHEMATIC\PDF\06003-SAN-OPT-STEP 1 & 2.DWG

STEP 2 - PUMPING TO BUSINESS PARK II TRUNK SEWER

EXISTING PUMPING STATIONS SWITCHED OVER TO EIGHTH LINE TRUNK SEWER AS REQUIRED TO PROVIDE CAPACITY FOR INFILL DEVELOPMENT

Proposed new Lake-Based service area and existing Georgetown South and Main St. SPS drainage area transferred to south Lake-Based system once new trunk is in service.

PROPOSED VARIATIONS FROM MASTER PLAN:
TRUNK SEWER
FORCE MAIN

CONSTRUCT SEWER ALONG STEELES

CONSTRUCT PUMPING STATION AT EIGHTH LINE

Trunk sewer to potentially intercept flows from HH/401 corridor.

Georgetown WWTP - strategic upgrades

GEORGETOWN WWTP

BUSINESS PARK II TRUNK SEWER

COMMENTS:

STEP 2 - PUMPING TO BUSINESS PARK II TRUNK SEWER

SERNAS ASSOCIATES
(A Member of the Sernas Group Inc.)



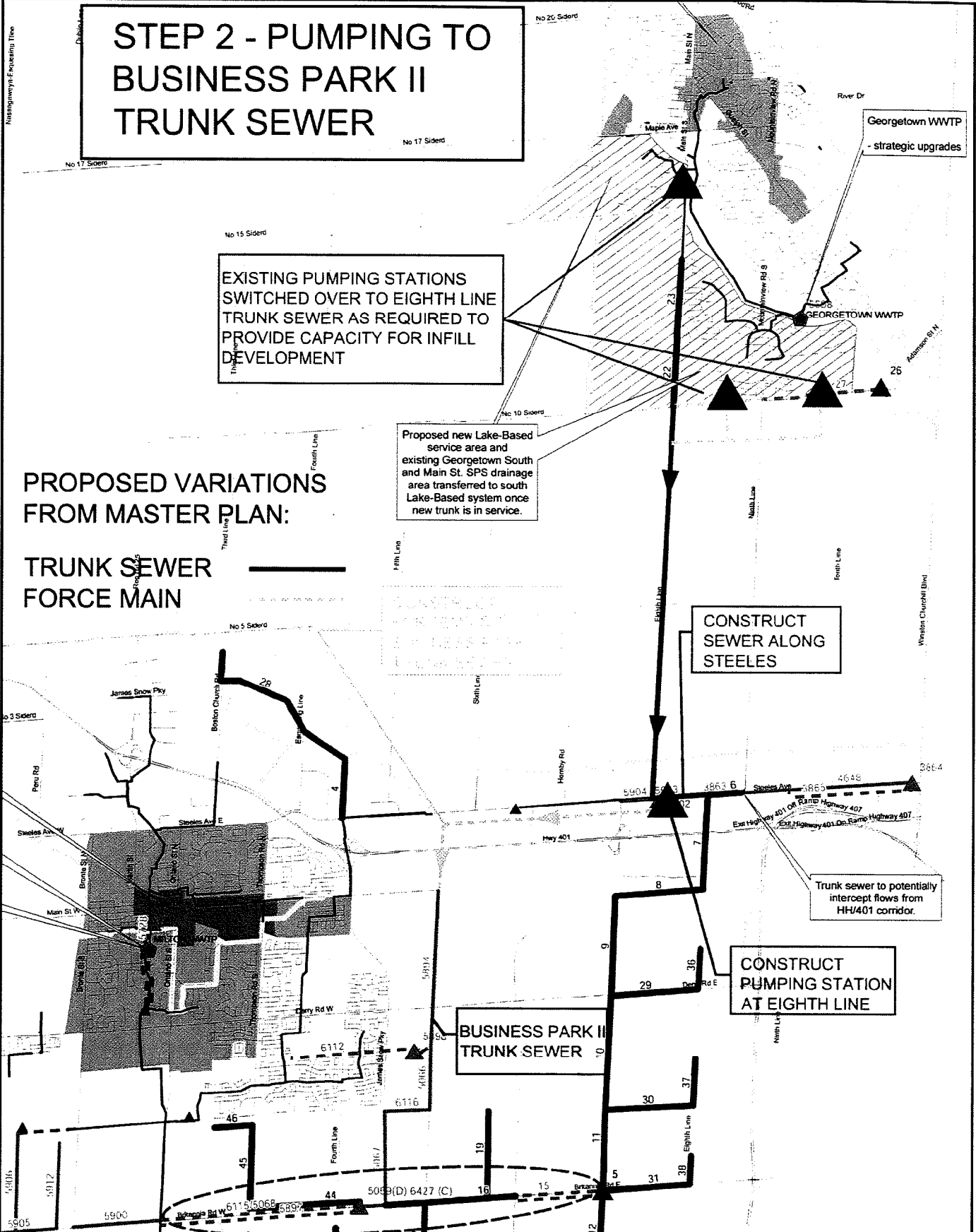
141 Brunel Road
Massapequa, NY
11758

T 416.213.7121
F 903.862.8499
sernas.com

SANITARY SERVICING CONCEPT

PROJECT No.
06003

DRAWING No.
ST-2



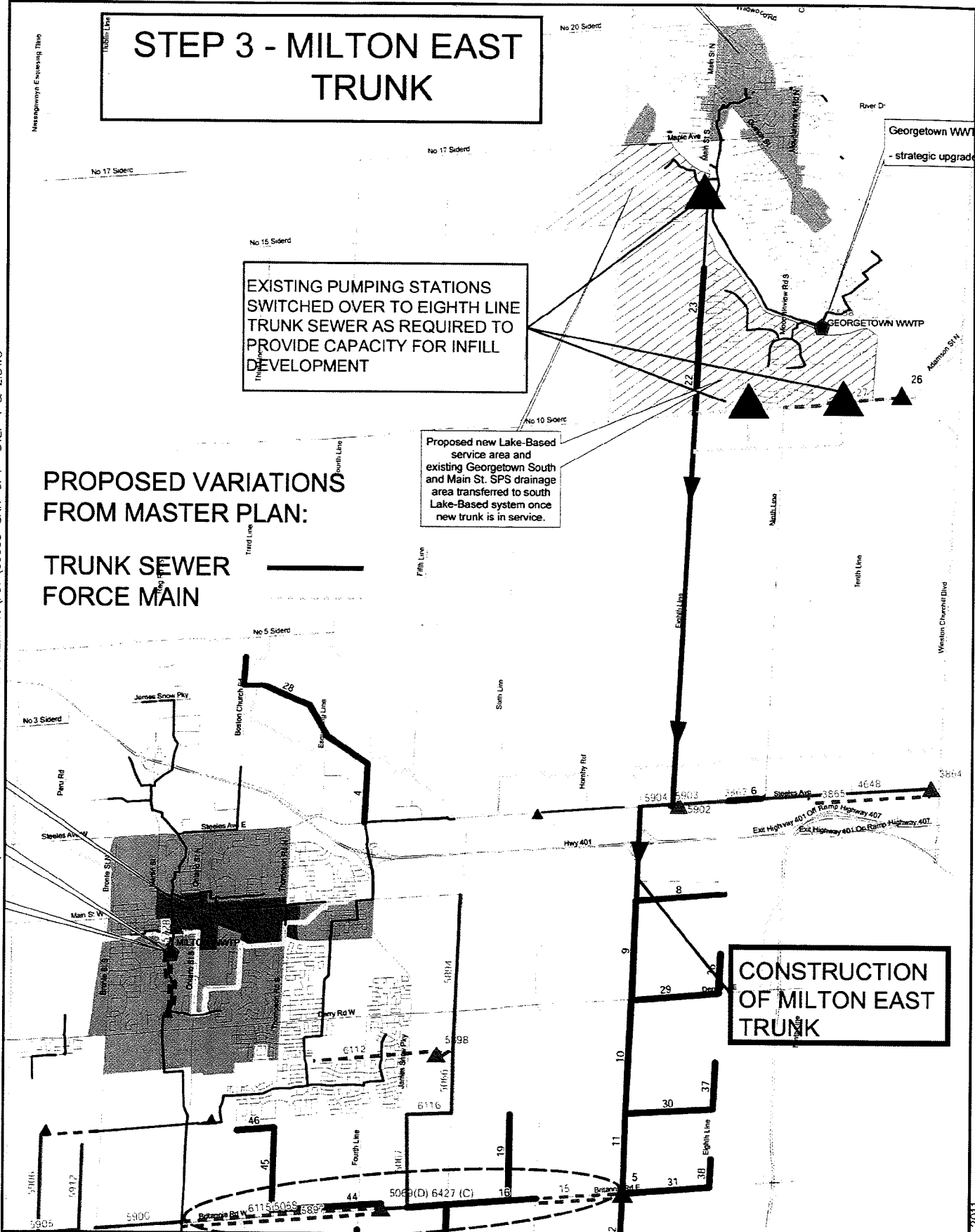
STEP 3 - MILTON EAST TRUNK

EXISTING PUMPING STATIONS SWITCHED OVER TO EIGHTH LINE TRUNK SEWER AS REQUIRED TO PROVIDE CAPACITY FOR INFILL DEVELOPMENT

Proposed new Lake-Based service area and existing Georgetown South and Main St. SPS drainage area transferred to south Lake-Based system once new trunk is in service.


PROPOSED VARIATIONS FROM MASTER PLAN:
TRUNK SEWER
FORCE MAIN

CONSTRUCTION OF MILTON EAST TRUNK



COMMENTS:
STEP 3 - MILTON EAST TRUNK

SERNAS ASSOCIATES
(A Member of the Sernas Group Inc.)



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L4Z 1K3

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SANITARY SERVICING CONCEPT

PROJECT No. **06003**

DRAWING No. **ST-3**

File: . S:\PROJECT FILES - SA\2006\06003 - SOUTHWEST GEORGETOWN LANDS\EXISTING SANITARY SERVICING SCHEMATIC\PDF\06003-SAN-OPT-STEP 1 & 2.DWG

R/P Date - APR. 27, 2011

APR 21 2011

Reference: 358

Chris Hamel
Project Manger
AECOM
105 Commerce Valley Drive West, 7th Floor
Markham Ontario
L3T 7W3

Re: Notice of Public Information Centre #2 Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Dear Mr. Hamel:

Thank you for your inquiry dated February 3, 2011 regarding the above-noted project.

As a member of the government review team, the Ministry of Aboriginal Affairs (MAA) identifies First Nation and Métis communities who may have the following interests in the area of your project:

- reserves;
- land claims or claims in litigation against Ontario;
- existing or asserted Aboriginal or treaty rights, such as harvesting rights; or
- an interest in your project's potential environmental impacts.

MAA is not the approval or regulatory authority for your project, and receives very limited information about projects in the early stages of their development. In circumstances where a Crown-approved project may negatively impact a claimed Aboriginal or treaty right, the Crown may have a duty to consult the Aboriginal community advancing the claim. The Crown often delegates procedural aspects of its duty to consult to proponents. Please note that the information in this letter should not be relied on as advice about whether the Crown owes a duty to consult in respect of your project, or what consultation may be appropriate. Should you have any questions about your consultation obligations, please contact the appropriate ministry.

You should be aware that many First Nations and Métis communities either have or assert rights to hunt and fish in their traditional territories. For First Nations, these territories typically include lands and waters outside of their reserves.

In some instances, project work may impact aboriginal archaeological resources. If any Aboriginal archaeological resources could be impacted by your project, you should contact your regulating or approving Ministry to inquire about whether any additional Aboriginal communities should be contacted. Aboriginal communities with an interest in archaeological resources may include communities who are not presently located in the vicinity of the proposed project.

With respect to your project, and based on the brief materials you have provided, we can advise that the project appears to be located in an area where First Nations may have existing or asserted rights or claims in MAA's land claims process or litigation, that could be impacted by your project. Contact information is below:

<p>Six Nations of the Grand River Territory P.O. Box 5000 Ohsweken, Ontario N0A 1M0</p>	<p>Chief William K. Montour (519) 445-2201 (Fax) 445-4208 wkm@sixnations.ca arleenmaracle@sixnations.ca</p>
<p>Haudenosaunee Confederacy Chiefs Council 2634 6th Line Road RR 2 Ohsweken, Ontario N0A 1M0</p>	<p>Chief Allen MacNaughton (519) 755-2769</p>
<p>Mississaugas of the New Credit First Nation 2789 Mississauga Rd., R.R. #6 HAGERSVILLE, Ontario NOA 1HO</p>	<p>Chief Bryan LaForme (905) 768-1133 (Fax) 768-1225 bryanlaforme@newcreditfirstnation.com</p>

The Government of Canada sometimes receives claims that Ontario does not receive, or with which Ontario does not become involved. For information about possible claims in the area, MAA recommends you contact the following federal contacts:

<p>Ms. Janet Townson Claims Analyst, Ontario Team Specific Claims Branch Indian and Northern Affairs Canada 1310-10 Wellington St. Gatineau, QC K1A 0H4 Tel: (819) 953-4667 Fax: (819) 997-9873</p>	<p>Mr. Sean Darcy Manager Assessment and Historical Research Indian and Northern Affairs Canada 10 Wellington St. Gatineau, QC K1A 0H4 Tel: (819) 997-8155 Fax: (819) 997-1366</p>
---	--

For federal information on litigation contact:

Mr. Marc-André Millaire
Litigation Team Leader for Ontario
Litigation Management and Resolutions Branch
Indian and Northern Affairs Canada
10 Wellington St.
Gatineau, QC K1A 0H4
Tel: (819) 994-1947
Fax: (819) 953-1139

Additional details about your project or changes to it that suggest impacts beyond what you have provided to date may necessitate further consideration of which Aboriginal communities may be affected by or interested in your undertaking. If you think that further consideration may be required, please bring your inquiry to whatever government body oversees the regulatory process for your project.

The information upon which the above comments are based is subject to change. First Nation or Métis communities can make claims at any time, and other developments can occur that could result in additional communities being affected by or interested in your undertaking.

Yours truly,

A handwritten signature in black ink, appearing to read "H. Levecque". The signature is fluid and cursive, with a large initial "H" and a long, sweeping underline.

Heather Levecque
Manager, Consultation Unit
Aboriginal Relations and Ministry Partnerships Division

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, February 22, 2011 8:27 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER SERVICING PLAN
Attachments: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER SERVICING PLAN.pdf

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Saturday, February 19, 2011 1:40 PM
To: Campbell, Chris
Subject: FW: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER SERVICING PLAN

fyi

From: Lindsay, Julius (ORC) [<mailto:Julius.Lindsay@ontariorealty.ca>]
Sent: Monday, February 14, 2011 7:56 AM
To: chris.hamel@aecom.com; Simpson, David
Subject: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER SERVICING PLAN

Please see attached.

<<SUSTAINABLE HALTON WATER AND WASTEWATER MASTER SERVICING PLAN.pdf>>

Julius Lindsay

Reporting Specialist

Professional Services


Ontario Realty Corporation

NB Effective immediately our address will be :

1 Dundas Street West, Suite 2000

Toronto, Ontario M5G 2L5

New e-mail address will be julius.lindsay@ontariorealty.ca Please update your records immediately.

 please consider the environment before printing this e-mail.

The information contained herein may be confidential, proprietary or legally privileged. This message and any attached files are for the exclusive use of the intended recipient(s) only, even if addressed incorrectly. If you received this message in error, immediately contact the sender by reply e-mail and delete or destroy all copies of the material. This message must not be presented to another party without gaining permission from the sender. Any views expressed in this message are those of the individual sender only. Precautions are taken to minimize the risk of software viruses, but there are no assurances of the absence and the sender assumes no liability for the presence of viruses.



February 11, 2011

To Mr. Chris Hamel,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER
SERVICING PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for circulating Ontario Realty Corporation (ORC) on your Notice. The ORC is the strategic manager of the government's real property with a mandate of maintaining and optimizing value of the portfolio, while ensuring real estate decisions reflect public policy objectives of the government.

As you may be aware, ORC is responsible for managing real property that is owned by the Ministry of Energy and Infrastructure (MEI). Our preliminary review of your notice and supporting information indicates that ORC-managed property is directly in the study area. As a result, your proposal may have the potential to impact this property and/or the activities of tenants present on ORC-managed lands. Attached please find a map that identifies these properties to assist you in identifying and avoiding potential impacts on ORC-managed lands. Please note that lands managed by Hydro One, on behalf of ORC are in the study area. These lands are also subject to the same following requirements.

Potential Negative Impacts to ORC Tenants and Lands

General Impacts

Negative environmental impacts associated with the project design and construction, such as the potential for dewatering, dust, noise and vibration impacts, and impacts to natural heritage features/habitat and functions, should be avoided and/or appropriately mitigated in accordance with applicable regulations best practices and Ministry of Natural Resources (MNR) and Ministry of the Environment (MOE) standards. Avoidance and mitigation options that characterize baseline conditions and quantify the potential impacts should be present as part of the EA project file. Details of appropriate mitigation, contingency plans and triggers for implementing contingency plans should also be present.

Impacts to Land holdings

Negative impacts to land holdings, such as the taking of developable parcels of ORC managed land or fragmentation of utility or transportation corridors, should be avoided. If the potential for such impacts is present as part of this undertaking, you should contact the undersigned to discuss these issues at the earliest possible stage of your study.

If takings are suggested as part of any alternative these should be appropriately mapped and quantified within EA report documentation. In addition, details of appropriate mitigation and or next steps related to compensation for any required takings should be



present. ORC requests circulation of the draft EA report prior to finalization if potential impacts to ORC-managed lands are present as part of this study.

Heritage Management Process & Class Environmental Assessment (EA) Process

Should the proposed activities impact cultural heritage features, on ORC managed lands, a request to examine cultural heritage issues which can include the cultural landscape, archaeology and places of sacred and secular value could be required. The Ontario Realty Corporation Heritage Management Process should be used for identifying and conserving heritage properties in the provincial portfolio (this document can be downloaded from the Heritage section of our website: <http://www.ontariorealty.ca/What-We-Do/Heritage.htm>). Through this process, ORC identifies, communicates and conserves the values of its heritage places. In addition, the Class EA ensures that ORC considers the potential effects of proposed undertakings on the environment, including cultural heritage.

Potential Triggers Related to MEI's Class EA

The ORC is required to follow the MEI Class Environmental Assessment Process for Realty Activities Not Related to Electricity Projects (MEI Class EA). The MEI Class EA applies to a wide range of realty and planning activities including leasing or letting, planning approvals, disposition, granting of easements, demolition and property maintenance/repair. For details on the ORC Class EA please visit the Environment and Heritage page of our website found at <http://www.ontariorealty.ca/AssetFactory.aspx?did=2240>

If the MEI Class EA is triggered, and deferral to another ministry's or agency's Class EA or individual EA is requested, the alternative EA will be subject to a critical review prior to approval for any signoff of a deferral by the proponent. The alternative EA needs to fulfill the minimum criteria of the MEI Class EA. When evaluating an alternative EA there must be explicit reference to the corresponding undertaking in the MEI Class EA (e.g., if the proponent identifies the need to acquire land owned by MEI, then "acquisition of MEI-owned land", or similar statement, must be referenced in the EA document). Furthermore, sufficient levels of consultation with MEI's/ORC's specific stakeholders, such as the Ontario Ministry of Natural Resources, must be documented with the relevant information corresponding to MEI's/ORC's undertaking and the associated maps. In addition to archaeological and heritage reports, a Phase I Environmental Site Assessment (ESA), on ORC lands should also be incorporated into the alternative EA study. Deficiencies in any of these requirements could result in an inability to defer to the alternative EA study and require completing MEI's Class EA prior to commencement of the proposed undertaking.

In summary, the purchase of MEI-owned/ORC-managed lands or disposal of rights and responsibilities (e.g. easement) for ORC-managed lands triggers the application of the



MEI Class EA. If any of these realty activities affecting ORC-managed lands are being proposed as part of any alternative, please contact the Sales and Marketing Group through ORC's main line (Phone: 416-327-3937, Toll Free: 1-877-863-9672), and contact the undersigned at your earliest convenience to discuss next steps.

Specific Comments

If an EA for this project is currently being undertaken and the undertaking directly affects all or in part any ORC-managed property, please send the undersigned a copy of the DRAFT EA report and allow sufficient time (minimum of 30 calendar days) for comments and discussion prior to finalizing the report to ensure that all MEI Class EA requirements can be met through the EA study.

Concluding Comments

Thank you for the opportunity to provide initial comments on this undertaking. If you have any questions on the above I can be reached at the contacts below.

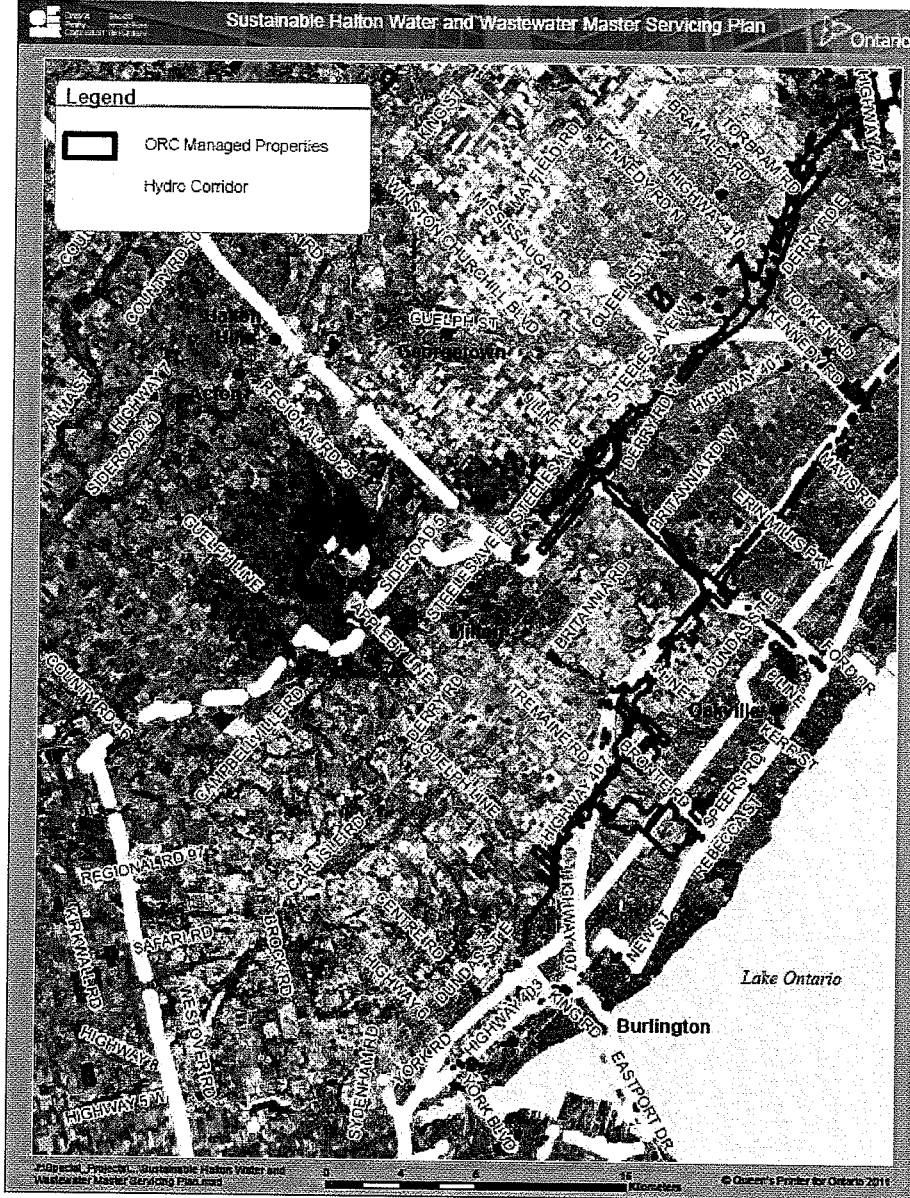
Sincerely,

Lisa Myslicki
Environmental Coordinator
Ontario Realty Corporation - Professional Services
1 Dundas Street West,
Suite 2000, Toronto, Ontario
M5G 2L5
(416) 212-3768
lisa.myslicki@ontariorealty.ca





Appendix 1: Location of ORC property





February 11, 2011

To Mr. Chris Hamel,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER
SERVICING PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

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If takings are suggested as part of any alternative these should be appropriately mapped and quantified within EA report documentation. In addition, details of appropriate mitigation and or next steps related to compensation for any required takings should be





present. ORC requests circulation of the draft EA report prior to finalization if potential impacts to ORC-managed lands are present as part of this study.

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or individual EA is requested, the alternative EA will be subject to a critical review prior to approval for any signoff of a deferral by the proponent. The alternative EA needs to fulfill the minimum criteria of the MEI Class EA. When evaluating an alternative EA there must be explicit reference to the corresponding undertaking in the MEI Class EA (e.g.,

of MEI-

Fur

such as the Ontario Ministry of Natural Resources, must be documented with the relevant

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MEI Class EA. If any of these realty activities affecting ORC-managed lands are being proposed as part of any alternative, please contact the Sales and Marketing Group (-327-3937, Toll Free: 1-877-863-9672), and contact the undersigned at your earliest convenience to discuss next steps.

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Concluding Comments

Thank you for the opportunity to provide initial comments on this undertaking. If you have any questions on the above I can be reached at the contacts below.

Sincerely,

Lisa Myslicki
Environmental Coordinator
Ontario Realty Corporation - Professional Services
1 Dundas Street West,
Suite 2000, Toronto, Ontario
M5G 2L5
(416) 212-3768
lisa.myslicki@ontariorealty.ca





Appendix 1: Location of ORC property





March 11, 2011

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

RE: Sustainable Halton Water & Wastewater Master Plan

Dear Mr. Simpson:

Trinison Management Corp. has been an active contributor throughout the Regional Official Plan Amendment 38 (ROPA 38) process. We have substantial landholdings located throughout Halton Region and in particular, landholdings located south of Britannia Road between Fifth Line and Thompson Road (Third Line), in the Town of Milton. These lands have been incorporated within the Regionally Adopted Sustainable Halton Preferred Land Use Plan (ROPA 38), which is currently awaiting Provincial Consent. Trinison, working in tandem with MTE Consultants Inc., have also attended two Master Plan Water and Wastewater Public Information Centre (PIC) open houses held to date, the first in June of 2010 and the more recent second, in February 2011.

On our behalf, MTE Consultants Inc. reviewed the technical information provided at the PIC's and submitted formal comments to the first PIC on June 17, 2010. Respectfully, we now submit comments based on information provided by the Region at the second PIC on February 16, 2011.

Constructive dialogue with Regional Staff throughout the Public Consultation Process has provided Trinison further insight into potential Master Plan Water and Wastewater Servicing opportunities which will be explored at an upcoming technical meeting with Regional Staff on March 31, 2011. In the interim, we attach some preliminary comments from our Consulting Engineers, for your review and consideration. Based on the attached comments, we recommend that Halton Region review exiting infrastructure to maximize its use and refine future wastewater and water infrastructure alignment, sizing and timing of delivery to ensure efficient, timely and cost effective delivery of water and wastewater infrastructure to service the ROPA 38 lands.

We look forward to working with the Region to achieve the successful implementation of ROPA 38.


Yours truly,
Trinison Management Corp.

Michael Telawski
Vice-President, Land Development

/attachment


Tel: 416.736.8854
Fax: 905.660.7650


Tel: 416.798.1127
Fax: 416.798.2159


Tel: 416.798.2420
Fax: 905.653.4074



March 11, 2011

VIA EMAIL

Mr. David Simpson, Senior Project Manager

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, ON L4M 3L1
david.simpson@halton.ca

Mr. Chris Hamel

AECOM
105 Commerce Valley Drive West
Markham, ON L3T 7W3
chris.hamel@aecom.com

**Re: Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study PIC # 2 Comments**

On behalf of the **South Georgetown Landowners Group**, please accept this letter as our comments in response to the recently released information on the Sustainable Halton Water and Waster Water Master Plan via the second series of Public Information Centre's which were held in February 2011.

The **South Georgetown Landowners Group** is comprised of several builder/developers including Lakeview Homes, National Homes, Tribute Communities, Townwood Homes, The Vogue Development Group, among others. The **South Georgetown Landowners Group** lands are located in Halton Hills within the area bounded by 10th Side Road to the North, 5th Side Road to the South, Trafalgar Road on the West and 9th line on the East and we have been active participants during the entire Sustainable Halton process.

We have now had an opportunity to review the material presented at the second series of Public Information Sessions hosted by the Region in February 2011 with respect to the proposed servicing to implement the Sustainable Halton Plan.

We are in agreement with the proposal to use a lake based system to support any future growth for both water and wastewater across the Region and support the proposed route of both water and waste water infrastructure, specifically as they relate to the Halton Hills area, traversing our groups frontage along Trafalgar Road and Ninth Line respectively.

Furthermore, we agree that this proposal represents the most effective solution to the problem of ensuring full municipal services to existing and proposed growth areas.

However, we are concerned with the scope of the Master Plan, as defined by the Notice of Commencement, which has defined the problem as being the development of a strategy to service existing and proposed growth areas to 2031. While it is correct that the Growth Plan for the Greater Golden Horseshoe only provides population numbers to 2031, the Plan encourages cost effective and efficient use of infrastructure. The costs associated with providing lake based services throughout the Region, as the Master Plan currently contemplates, are very high and the incremental costs to oversize this same infrastructure is minimal by comparison. It is therefore our position that the final design of any infrastructure should take this into consideration, in order to ensure that any public and private funds that will be invested to realize this infrastructure will not need to be unnecessarily duplicated in the future.

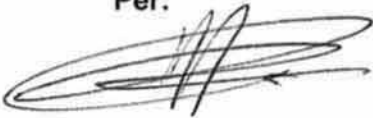
We also note that the Master Plan is using Approach #2 in the Municipal Class EA. This will result in the Notice of Completion being the final approval of any individual projects that are not Schedule C. We would be grateful if you could provide a list of the Schedules that apply to the various projects.

Finally, please provide us with any further Notices in this process, including the Notice of Completion.

Respectively Submitted,

South Georgetown Landowners Group

Per:

A handwritten signature in black ink, appearing to read 'Mark Pavkovic', written over a horizontal line.

Mark Pavkovic

Manager

Encls: Location Map

Cc: South Georgetown Landowner's Group

Chris Barnett, Davis LLP

FIGURE 1: GEORGETOWN COMMONS



MAP SOURCE: 2008 Google-Imagery (modified)

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:44 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water and Wastewater Master Plan Municipal Class EA
Attachments: haltonmsp.pdf

From: Dave Leighton [<mailto:dleighton@urbantech.com>]
Sent: Wednesday, March 09, 2011 2:06 PM
To: Simpson, David
Cc: Carmela Liggio
Subject: Sustainable Halton Water and Wastewater Master Plan Municipal Class EA

Good Afternoon David,

On behalf of the Milton Phase 3 Landowners Group we are pleased to provide the attached preliminary comments on the Master Plan Class EA. We look forward to discussing them in detail at the March 31, 2011 technical meeting.

Thank you

J. David Leighton, C.E.T.,
Senior Partner
Urbantech Consulting
A Division of Leighton-Sytsma Ltd.

25 Royal Crest Court,
Suite 201
Markham, Ontario
L3R 9X4
TEL: **905-946-9461, Ext. 402**
FAX: **905-946-9595**
CELL: **416-558-5759**
www.urbantech.com

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urbantech

March 9, 2011

Project: 08-273

David Simpson, P.Eng.

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

**Re: Sustainable Halton Water and Wastewater Master Plan Municipal Class
Environmental Assessment Study, PIC # 2**

On behalf of the Milton Phase 3 Landowners Group (lands located within the Town of Milton's Boyne Survey Secondary Plan Area) we attended the February 22, 2011 Public Information Centre No. 2 and offer the following preliminary comments:

- We require more detail on the cost estimates prepared for the water and wastewater servicing strategies.
- Further discussion is required regarding the location of the wastewater pumping station, allowable sewer depths and forcemain locations.
- Further discussion is required regarding maximizing the capacity of existing water and wastewater infrastructure.

We appreciate the Region's invitation to the technical meeting on Thursday March 31, 2011 to discuss the above comments in more detail. Further, we would also appreciate the opportunity to provide you with additional comments on the water and wastewater servicing strategy following our technical meeting.

Regards,
Urbantech Consulting


J. David Leighton, C.E.T.
Senior Partner

cc: Carmela Liggio, Delta Urban c/o Milton Phase 3 Landowners Group

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:45 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water and Wastewater Master Plan PIC#2 Comments
Attachments: tmig letter march 10 2011.pdf

-----Original Message-----

From: David Scott [<mailto:Dscott@tmig.ca>]
Sent: Thursday, March 10, 2011 8:23 PM
To: Simpson, David
Cc: Hamel, Chris; Colin Chung; Carlo Stefanutti; Colin McGregor; imanas@trinison.com; Paul Brown
Subject: Sustainable Halton Water and Wastewater Master Plan PIC#2 Comments

Please find our comment letter attached.

David Scott, P. Eng.
founding partner

TMIG | THE MUNICIPAL INFRASTRUCTURE GROUP LTD 8800 Dufferin Street, Suite 200 | Vaughan
Ontario Canada L4K 0C5 | office 905.738.5700 ext 221 | fax 905.738.0065 | www.tmig.ca

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Thank you



March 10, 2011
Project 06108

The Regional Municipality of Halton
Water Planning, Public Works
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

Attention: Mr. David Simpson, P.Eng.

Subject: Sustainable Halton Water and Wastewater Master Plan - PIC # 2

Dear David:

On behalf of the Britannia South Landowners Group we attended the February 22, 2011 Public Information Centre No. 2 and offer the following comments:

- The majority of the infrastructure identified in the “Preliminary Preferred Wastewater Servicing Strategy” figures is intended to service three primary new growth areas, namely Georgetown, Milton East, and Britannia North/South Lands (west of 6th Line).
- The Region’s “Preliminary Preferred Wastewater Servicing Strategy” figures show that substantial trunk sewer and pumping station infrastructure is required to extend wastewater servicing to the Georgetown lands and the Milton East lands.
- The Region’s “Preliminary Preferred Wastewater Servicing Strategy” figures also show that the Britannia South lands are to be serviced by a new Sanitary Pump Station and a new forcemain crossing of the 16 Mile Creek at a southerly location near Lower Base Line.

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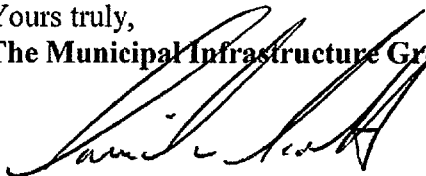
- Based on our analysis, we believe that the Britannia North/South lands can be serviced by the Britannia Road trunk sewer and Sanitary Pump Station without the need for further deepening to service the Britannia South lands. This Britannia Road SPS is anticipated to be constructed in advance of any development of the Sustainable Halton lands, in order to service the Milton Phase 3 lands (MP3) and the Derry Green Business Park lands (BP2). We believe that the design of this SPS, when undertaken, can be done in a manner which provides for the future pump station expansion to accommodate wastewater flows from the entire Sustainable Halton lands, including the Britannia South lands.
- By providing for the expansion of the Britannia SPS to accommodate wastewater flows from the entire Sustainable Halton lands, including the Britannia South lands, the Region will:
 - Eliminate the need for an addition SPS at Lower Base Line (reducing both capital and life cycle costs)
 - Eliminate the need for an additional crossing of the environmentally sensitive 16 Mile Creek
 - Make good use of the existing infrastructure being constructed for the other proposed development areas
- It appears from the Regions figures that the proposed Lower Base Line SPS and 16 Mile Creek outfall crossing creates the “Opportunity to defer ultimate servicing from Lower Baseline infrastructure”. Given that the Britannia Road SPS will be constructed in advance in order to service the MP3 and BP2 lands, this existing infrastructure would create a potential “plug and play” servicing solution for the Britannia South and Britannia North lands with relatively minimal additional capital expenditure. This would permit the development of a fairly substantial area, which in turn will generate substantial Development Charges funds with relatively limited Development Charge expenditures by the Region.
- The Development Charge reserves which will be generated by the above solution will substantially aid in the funding of the extensive trunk sewer extension and additional sanitary pump stations which are required to service future growth in Milton East and Georgetown.
- The Region’s display boards provide a summary of anticipated costs to implement the preferred water and wastewater servicing strategies. We have also undertaken preliminary cost estimates and we would be pleased to share with the Region our thoughts on funding, phasing, and infrastructure timing.

While the above provides an overview of our comments, these comments will be expanded upon in a subsequent detailed submission which we anticipate forwarding to the Region by Friday March 25th.

We appreciate the Region's organization of the technical meeting on Thursday March 31, 2011 and we look forward to reviewing our detailed comments with the Region at that time.

Thanks for inviting our participation in this project and we look forward to working with the Region and AECOM to refine the preferred water and wastewater servicing strategy for the Sustainable Halton lands.

Yours truly,
The Municipal Infrastructure Group

A handwritten signature in black ink, appearing to read 'David Scott', written over the printed name of the sender.

David Scott, P.Eng.
Founding Partner

cc Colin Chung, GSAI
Chris Hamel, AECOM
Carlo Stefanutti, Fieldgate Developments
Colin McGregor, Trinison Management Corp.
Paul Brown, MTE

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:45 PM
To: Bhabha, Fatima
Subject: FW: Fieldgate Comments on Sustainable Halton Water and Wastewater Master Plan PIC 2
Attachments: tmig letter 2 march 10 2011.pdf

-----Original Message-----

From: David Scott [<mailto:Dscott@tmig.ca>]
Sent: Thursday, March 10, 2011 8:46 PM
To: Simpson, David
Cc: Hamel, Chris; Carlo Stefanutti; Colin Chung; David Ashfield
Subject: Fieldgate Comments on Sustainable Halton Water and Wastewater Master Plan PIC 2

Please find our comment letter attached.

David Scott, P. Eng.
founding partner

TMIG | THE MUNICIPAL INFRASTRUCTURE GROUP LTD 8800 Dufferin Street, Suite 200 | Vaughan
Ontario Canada L4K 0C5 | office 905.738.5700 ext 221 | fax 905.738.0065 | www.tmig.ca

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-----Original Message-----

From: ricoh3500suite160@tmig.ca [<mailto:ricoh3500suite160@tmig.ca>]
Sent: March 10, 2011 8:39 PM
To: David Scott
Subject:

This E-mail was sent from "RNPDCD53F" (Aficio MP C3500).

Scan Date: 03.10.2011 20:39:21 (-0500)
Queries to: ricoh3500suite160@tmig.ca

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Thank you



March 10, 2011
Project 06108

The Regional Municipality of Halton
Water Planning, Public Works
1151 Bronte Road,
Oakville, Ontario
L6M 3L1

Attention: Mr. David Simpson, P.Eng.

Subject: Sustainable Halton Water and Wastewater Master Plan - PIC # 2

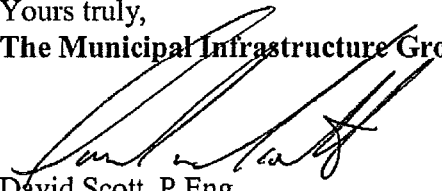
Dear David:

On behalf of the Fieldgate Developments, we attended the February 22, 2011 Public Information Centre No. 2 and offer the following comments:

- Our client, Fieldgate Developments, own lands within the Boyne Survey Community on the north side of Britannia Road, immediately east of 16 Mile Creek.
- We are concerned about the location of the Britannia Road Sanitary Pump Station, as shown on the Region's "Preliminary Preferred Wastewater Servicing Strategy" display board as we believe it will result in the un-necessary depth of local sanitary sewers through the Boyne Survey west lands.
- We support the location of the Britannia Road Sanitary Pump Station as shown just east of 16 Mile Creek in the current South Halton Water and Wastewater Master Plan update.

Thanks for inviting our participation in this project and we look forward to working with the Region and AECOM to refine the preferred water and wastewater servicing strategy for the Sustainable Halton lands.

Yours truly,
The Municipal Infrastructure Group



David Scott, P.Eng.
Founding Partner

cc Colin Chung, GSAI
Carlo Stefanutti, Fieldgate Developments

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Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:47 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water and Wastewater Master Plan - PIC #2
Attachments: TrinisonHaltonRegion PIC.pdf; 20110311172021.pdf

From: Paul Brown [<mailto:PBrown@mte85.com>]
Sent: Friday, March 11, 2011 4:26 PM
To: Simpson, David
Cc: chris.hamel@aecom.com; Michael Telawski
Subject: Sustainable Halton Water and Wastewater Master Plan - PIC #2

Good afternoon David,

We are pleased to provide our preliminary comments in response to the information provided at PIC #2.

We look forward to meeting with the Region for further discussion on March 31, 2011.

Regards,

Paul

Paul Brown, C.E.T., Director, Land Development
MTE Consultants Inc.
3115 Harvester Road, Suite 200, Burlington, Ontario L7N 3N8
Telephone: (905) 639-2552 Facsimile: (905) 639-7727
<http://www.mte85.com> <mailto:pbrown@mte85.com>

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March 11, 2011
MTE File: 10478-100

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

Dear Mr. Simpson:

**RE: Sustainable Halton Water & Wastewater Master Plan
Public Information Centre #2 – February 2011**

Thank you for providing us the opportunity to attend the Region's second Public Information Centre (PIC #2) on February 16, 2011 addressing the Sustainable Halton Water and Wastewater Master Plan and to have constructive dialogue with Regional staff and their consultants.

We represent Trinison Management who own lands located south of Britannia Road between Fifth Line and Thompson Road (Third Line), in the Town of Milton. These lands have been incorporated within the Sustainable Halton Preferred Land Use Plan (ROPA 38) which is currently awaiting Provincial Consent.

Trinison Managements lands incorporated in the Preferred Land Use Plan are immediately coincident to the exiting urban boundary. In addition, currently approved Master Plan Water and Wastewater Infrastructure is provided for along coincident boundary roads. Accordingly, it is our opinion that these lands can be serviced as part of the next Secondary Planning Area within the Town of Milton as approved and planned water and wastewater infrastructure can be extended to service these lands in a logical, timely and cost effective manner.

Notwithstanding the comments provided above we question the appropriateness of the Preferred Wastewater and Water Servicing Strategy figures providing construction and servicing timelines in advance of the finalization of Best Planning Estimates (BPE's), ROPA 38 and the upcoming ROPA 39. These three processes will be significant determinates as to what, where and when development occurs throughout Halton Region.

On behalf of Trinison Management, we provide additional preliminary comments based on our initial review of materials presented at PIC #2 on February 16, 2011.

1. The Preliminary Preferred Wastewater Servicing Strategy indicates 'preliminary phasing along Britannia corridor' is being considered. Trinison Management requests further dialogue with the Region regarding this statement to clarify implications to the timing of servicing for their lands located coincident with the existing urban boundary and within the Preferred Land Use Plan (ROPA 38) south of Britannia Road.
2. The Preliminary Preferred Wastewater Servicing Strategy indicates 'Opportunity to defer ultimate servicing from Lower Base Line Infrastructure'. It is our understanding that ROPA 38 requires all lands to be Regionally serviced by 2021. Therefore, the suggestion of an opportunity to defer lands south of Britannia is inconsistent with ROPA 38. Again, Trinison Management requests further dialogue with the Region to clarify implications to the timing of servicing for their lands located coincident with the existing urban boundary and within the Preferred Land Use Plan (ROPA 38) south of Britannia Road.
3. The Preliminary Preferred Wastewater Servicing Strategy figure depicts a wastewater pumping station located at the intersections of Fourth Line and Lower Base Line Road West. The figure notes 'Second major forcemain crossing provides system security'. We request further dialogue with the Region regarding this crossing as it is our understanding that the proposed wastewater pumping station and forcemain proposed on Britannia Road in the vicinity of Fourth Line will provide system security itself through a redundant twin force-main. We also request the Region to confirm if the design of the Britannia Road pump station will provide enhanced system security through provision of emergency storage and stand-by power.
4. We have concern and request further dialogue with the Region regarding the advancement and finalization of a Master Water and Wastewater Servicing Plan in advance of the approved ROPA 38, ROPA 39 and the Best Planning Estimates (BPE's).

Subsequent to attending the PIC on February 16, 2011 MTE attended PIC #2 hosted in Milton on February 22, 2011 and was provided further opportunity to speak with Regional Staff and their consultants regarding the Region's Preliminary Preferred Water and Wastewater Servicing Strategies and the comments provided above.

During this dialogue it became evident that there are additional potential opportunities to refine and enhance the Preliminary Preferred Water and Wastewater Servicing Strategies. Accordingly, Halton Region offered to host a technical meeting with stakeholders and their consultants to review and discuss, in greater detail, the merits of additional servicing strategies for the ROPA 38 Lands.



Mr. David Simpson, Regional Municipality of Halton

March 11, 2011

MTE File No.: 10478-100

Page 3

On behalf of Trinison Management, MTE sincerely appreciates the invitation to meet with the Region on March 31, 2011 and looks forward to providing additional detailed comments and to advance the Master Plan Process in cooperation with the Region.

Yours Truly,

MTE CONSULTANTS INC.

A handwritten signature in black ink, appearing to read 'Paul Brown', is written over a faint, circular watermark or background graphic.

Paul Brown
Director, Land Development

PXB:emw

M:\10478\Correspondence\Sustainable Halton Water & Wastewater Master Plan.docx



March 11, 2011

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario
L6M 3L1

RE: Sustainable Halton Water & Wastewater Master Plan

Dear Mr. Simpson:

Trinison Management Corp. has been an active contributor throughout the Regional Official Plan Amendment 38 (ROPA 38) process. We have substantial landholdings located throughout Halton Region and in particular, landholdings located south of Britannia Road between Fifth Line and Thompson Road (Third Line), in the Town of Milton. These lands have been incorporated within the Regionally Adopted Sustainable Halton Preferred Land Use Plan (ROPA 38), which is currently awaiting Provincial Consent. Trinison, working in tandem with MTE Consultants Inc., have also attended two Master Plan Water and Wastewater Public Information Centre (PIC) open houses held to date, the first in June of 2010 and the more recent second, in February 2011.

On our behalf, MTE Consultants Inc. reviewed the technical information provided at the PIC's and submitted formal comments to the first PIC on June 17, 2010. Respectfully, we now submit comments based on information provided by the Region at the second PIC on February 16, 2011.

Constructive dialogue with Regional Staff throughout the Public Consultation Process has provided Trinison further insight into potential Master Plan Water and Wastewater Servicing opportunities which will be explored at an upcoming technical meeting with Regional Staff on March 31, 2011. In the interim, we attach some preliminary comments from our Consulting Engineers, for your review and consideration. Based on the attached comments, we recommend that Halton Region review exiting infrastructure to maximize its use and refine future wastewater and water infrastructure alignment, sizing and timing of delivery to ensure efficient, timely and cost effective delivery of water and wastewater infrastructure to service the ROPA 38 lands.

We look forward to working with the Region to achieve the successful implementation of ROPA 38.

Yours truly,
Trinison Management Corp.

Michael Telawski
Vice-President, Land Development

/attachment

Tel: 416.736.8854
Fax: 905.660.7650

* *

Tel: 416.798.2420
Fax: 905.653.4074

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, March 14, 2011 1:04 PM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Wastewater and Water EA - PIC #2 Response Letter
Attachments: YTC PIC 2 response.pdf

From: Peter W. Meiklejohn [<mailto:pmeiklejohn@yorktrafalgar.com>]
Sent: Friday, March 11, 2011 12:26 PM
To: Campbell, Chris
Subject: FW: Wastewater and Water EA - PIC #2 Response Letter

Dear Mr. Campbell,

As per Chris' out of office notification, please find attached York Trafalgar Corp.'s letter in response to the Region of Halton's Water and Wastewater EA, PIC #2.

Sincerely,

Peter W. Meiklejohn, P. Eng.

York Trafalgar Corp.
1039 Fourth Line
Burlington, Ontario. L9T 6P9
Cell: +1 416 909 6724
Phone: +1 905 878 9396

Fax: +1 905 878 1886
pmeiklejohn@yorktrafalgar.com

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From: Peter W. Meiklejohn [<mailto:pmeiklejohn@yorktrafalgar.com>]
Sent: Friday, March 11, 2011 12:19 PM
To: 'david.simpson@halton.ca'; 'chris.hamel@aecom.com'
Cc: 'dave.andrews@halton.ca'; 'kiyoshi.oka@halton.ca'
Subject: Wastewater and Water EA - PIC #2 Response Letter

Gentlemen,

Please find hereto our letter to the Region. Originals will be delivered later today, or by general mail.

Sincerely,

Peter W. Meiklejohn, P. Eng.

York Trafalgar Corp.

139 Fourth Line

Wilton, Ontario. L9T 6P9

Cell: +1 416 909 6724

Phone: +1 905 878 9396

Fax: = +1 905 878 1886

pmeiklejohn@yorktrafalgar.com

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YORK TRAFALGAR
C O R P O R A T I O N

March 11, 2011

Regional Municipality of Halton
1151 Bronte Rd.
Oakville ON.
L6M 3L1

Attention: Mr. David Simpson
Water Planning, Public Works

**Re: Sustainable Halton Water and Wastewater Servicing Master Plan
Class Environmental Assessment**

Dear Mr. Simpson:

Thank you for giving us the opportunity to comment on the "Sustainable Halton Water and Wastewater Master Plan" study. Schedule A attached is a list of the individuals and companies which support this response.

Please accept this letter as our support for the recommendations of the report and in particular the "Preliminary Preferred Wastewater Servicing Strategy". Although we are still in the process of reviewing all of the Phase 2 background documents that have been provided to date, we fully support the overarching strategy of extending wastewater services along Britannia Rd to the Trafalgar Corridor. This investment combined with the provision of water services will enable the Regional Municipality of Halton to take advantage of the last remaining undeveloped superblock in the Greater Toronto Area - lands which have the highest concentration of under-utilized unproductive public sector capital investment in the Greater Golden Horseshoe.

In our view, the flexibility, phasing and system security features (i.e. built in system redundancy); of the servicing strategy are critical success factors in addressing and preparing for the future market demand, particularly in attracting high order forms of development to the Region. We believe major development opportunities are ready to expend in Milton and we view the preferred planning options as developed through the Class EA planning process is an essential step towards achieving our collective goals.

.....2/

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 11, 2011
Page 2 of 4

By unlocking the economic production functionality of the Trafalgar corridor lands, both the higher order employment lands near Highway 401 - 407, and the residential lands along its serviceable length, the Region will have a clean palette on which to position growth, accommodate new and emerging knowledge based enterprises as the Great Lakes Basin transitions from an industrial/manufacturing base. By aligning economic opportunity with the impressive array of natural resources and quality of life attributes in our community, solid new business enterprises will be attracted to the Region in an ongoing basis, for years to come. This approach represents both a 'best use' of land approach and the financial foundation which will enable the most economic (revenue and cost effective) approach towards addressing concerns of phasing and the cost of implementation in the evaluation presented on slide 16 of PIC #2.

Through our own independent analysis, which includes respecting the rapid development of the 401 corridor westerly from the Toronto Pearson International Airport to Halton's doorstep, we have concluded that the Region will see demand for its 401 - 407 frontage materialize far sooner than officially anticipated.

The following are some specific concerns, questions and comments we wish to receive responses to on matters arising during our preliminary review of the materials provided:

- Page 4 of the cover report subheading Background notes that the population and employment counts are expected to grow by 300,000 and 170,000 respectively but Slide 3 "Objectives" uses the figures 257,551 and 137,104. Please clarify;
- Slide 4 Exhibit A.2 (Municipal Class EA Planning and Design Process) – It is indicated that we are at Step 5, in Phase 2 of the Class EA process. Given all work that has been completed as part of Steps 2, 3 and 4 in Phase 2 and in addition to Slide 10, which indicates the 'Twelve Point' evaluation criteria we would appreciate the opportunity to review the sub-reports supporting the Class EA process prior to filing;
- Slide 7 Planning Projections – The note on the upper box refers to, "...does not include rural employment", we assume this should read '...does not include rural population'. This is also the source of the numbers referred to above;

.....3/

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 11, 2011
Page 3 of 4

- In addition to the Twelve Point' evaluation criteria Slide 10 also refers to both Water Strategies Evaluation and Water Strategies Evaluation, we would like the opportunity to review the detailed background material and/or specific reports for each of the evaluation criteria at your earliest convenience;
- Slide "Preliminary Preferred Wastewater Servicing Strategy" – We assume the capacity of the pumping station now under design and the short gravity wastewater pipe between the Fourth Line and Fifth Line feeding the pumping station will be re-designed to accommodate all of the projected flows along Britannia;
- Slide 16 – Can you share with us the underlying cost assumptions, estimated component breakdown and the component construction timing?;
- Overall we believe that all pumping stations and pipes should be based on an ultimate capacity within the life of the pipe. The economics of having to upgrade pipes within their design life is prohibitive and unreasonable in this economic environment, given the marginal cost to oversize these pipe during the design process today;
- Please inform us when Halton Region intends on filing this Environmental Assessment Report; and
- We would like to formally request a copy of the final Environmental Study Report submitted for public review.

Notwithstanding our request for clarification and review of the supporting documents and our understanding of the "Traceability" provisions of the Environmental Assessment Act and Guidelines; with that understanding, we reiterate our support of the recommendations of the Class EA process to date and in particular the "Preliminary Preferred Wastewater Servicing Strategy" being finalized in preparation of filing for public review.

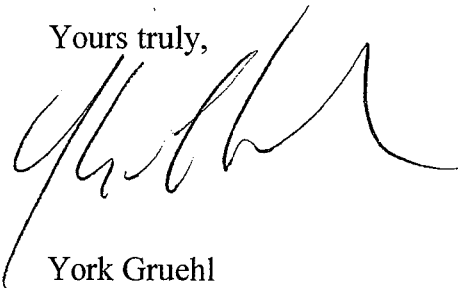
.....4/

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 11, 2011
Page 4 of 4

We look forward to meeting with you at the earliest opportunity.

Again on behalf of the firms listed in Schedule "A", thank you for giving us the opportunity to not only comment, but, to build on the momentum developed through the Sustainable Halton process.

Yours truly,

A handwritten signature in black ink, appearing to read 'York Gruehl', written in a cursive style.

York Gruehl

Attached: Schedule "A" Land Owners in support of this letter

Copy to:

Kiyoshi Oka, P.Eng., Director, Water Services

David M. Andrews, Acting Director of Wastewater Services

Mr. Chris Hamel - AECOM
105 Commerce Valley Drive West
Markham, ON, L3T 7W3

SCHEDULE "A"

York Trafalgar Corp. 770 Acres
Attn: Mr. York Gruehl
1039 Fourth Line
MILTON, Ontario
L9T 6P9

Tel: 905 878 9396
Fax: 905 878 1886

492599 Ontario Limited 44 Acres
c/o Garden Park Homes
Attn: Mr. Tony Gallace
800 Arrow Road, Unit 6
WESTON, Ontario
M9M 2Z6

Tel: 416 745 4475
Fax: 416 745 4476

Manaman Developments Inc. 226 Acres
Attn: Mr. Wicklow So
Tel: 905 940 2373
Fax: 905 940 8449

Muddy Duck Restaurants Inc. 86 Acres
Attn: Mr Mark Rinas, Mr. Karl Niermann
markrinas@mac.com

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:46 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study PIC # 2 Comments
Attachments: SGLG Comments Sustainable Halton Water and Wastewater Master Plan PIC # 2.pdf

From: Mark Pavkovic [<mailto:mp@nationalhomes.com>]
Sent: Friday, March 11, 2011 11:25 AM
To: Simpson, David; chris.hamel@aecom.com
Cc: Barnett, Chris
Subject: Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study PIC # 2 Comments

Good Morning David and Chris,

On behalf of the **South Georgetown Landowners Group**, please accept this letter as our comments in response to the recently released information on the Sustainable Halton Water and Waster Water Master Plan via the second series of Public Information Centre's which were held in February 2011.

Best Regards,

Mark Pavkovic

Land Acquisition & Development
T 905.669.9199
F 905.660.9894
M 416.500.1114
E mp@nationalhomes.com

291 Edgeley Boulevard Suite # 1
Concord, ON • L4K 3Z4 • Canada
www.nationalhomes.com



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recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you



March 11, 2011

VIA EMAIL

Mr. David Simpson, Senior Project Manager

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, ON L4M 3L1
david.simpson@halton.ca

Mr. Chris Hamel

AECOM
105 Commerce Valley Drive West
Markham, ON L3T 7W3
chris.hamel@aecom.com

**Re: Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study PIC # 2 Comments**

On behalf of the **South Georgetown Landowners Group**, please accept this letter as our comments in response to the recently released information on the Sustainable Halton Water and Waster Water Master Plan via the second series of Public Information Centre's which were held in February 2011.

The **South Georgetown Landowners Group** is comprised of several builder/developers including Lakeview Homes, National Homes, Tribute Communities, Townwood Homes, The Vogue Development Group, among others. The **South Georgetown Landowners Group** lands are located in Halton Hills within the area bounded by 10th Side Road to the North, 5th Side Road to the South, Trafalgar Road on the West and 9th line on the East and we have been active participants during the entire Sustainable Halton process.

We have now had an opportunity to review the material presented at the second series of Public Information Sessions hosted by the Region in February 2011 with respect to the proposed servicing to implement the Sustainable Halton Plan.

We are in agreement with the proposal to use a lake based system to support any future growth for both water and wastewater across the Region and support the proposed route of both water and waste water infrastructure, specifically as they relate to the Halton Hills area, traversing our groups frontage along Trafalgar Road and Ninth Line respectively.

Furthermore, we agree that this proposal represents the most effective solution to the problem of ensuring full municipal services to existing and proposed growth areas.

However, we are concerned with the scope of the Master Plan, as defined by the Notice of Commencement, which has defined the problem as being the development of a strategy to service existing and proposed growth areas to 2031. While it is correct that the Growth Plan for the Greater Golden Horseshoe only provides population numbers to 2031, the Plan encourages cost effective and efficient use of infrastructure. The costs associated with providing lake based services throughout the Region, as the Master Plan currently contemplates, are very high and the incremental costs to oversize this same infrastructure is minimal by comparison. It is therefore our position that the final design of any infrastructure should take this into consideration, in order to ensure that any public and private funds that will be invested to realize this infrastructure will not need to be unnecessarily duplicated in the future.

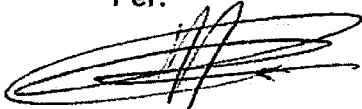
We also note that the Master Plan is using Approach #2 in the Municipal Class EA. This will result in the Notice of Completion being the final approval of any individual projects that are not Schedule C. We would be grateful if you could provide a list of the Schedules that apply to the various projects.

Finally, please provide us with any further Notices in this process, including the Notice of Completion.

Respectively Submitted,

South Georgetown Landowners Group

Per:

A handwritten signature in black ink, appearing to be 'Mark Pavkovic', written over a horizontal line.

Mark Pavkovic

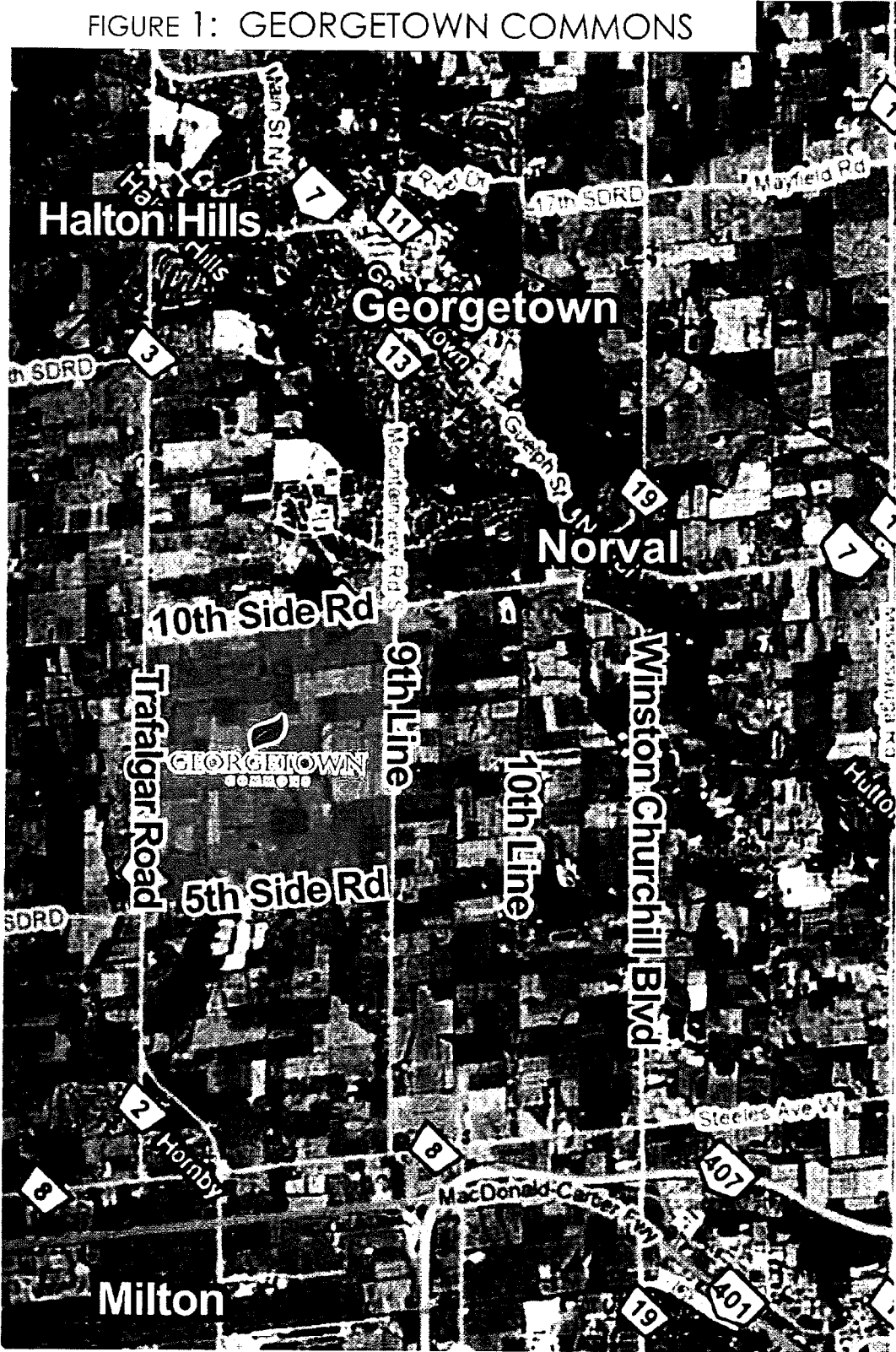
Manager

Encls: Location Map

Cc: South Georgetown Landowner's Group

Chris Barnett, Davis LLP

FIGURE 1: GEORGETOWN COMMONS



MAP SOURCE: 2008 Google-Imagery (modified)

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:46 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton W & WW Master Plan
Attachments: HR W&WW PIC 1 RESPONSE .pdf

-----Original Message-----

From: gtarealty@rogers.com [<mailto:gtarealty@rogers.com>]
Sent: Friday, March 11, 2011 11:10 AM
To: Simpson, David
Cc: Hamel Chris; Oka, Kiyoshi; Andrews David
Subject: Sustainable Halton W & WW Master Plan

David

Please find attached our comments re Sustainable Halton W & WW Master Plan PIC.
Regards

Frank Varga, Broker
G. T. A. Realty Ltd.
Tel 416 733-8155
Fax 416 512-1865

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Thank you

VARGA, GATKA, SCHULLER
Part East Half Lot 9 Con 8
Trafalgar New Survey
Town Of Milton

March 11 2011

VIA FAX & EMAIL

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville ON.
L6M 3L1

Dear Mr. Simpson:

Re: PIC #1 Sustainable Halton Water and Wastewater Servicing Master Plan

After attending the open house meeting in Milton I found it well organized and informative and am responding to your kind invitation for comments. After discussion with my fellow co-owners we have the following comments:

1. We support the "Preliminary Preferred Water and Wastewater Servicing Strategy". In particular it is a wise choice to locate a pump station near Britannia and Trafalgar Rd as this is a low point for the lands located to the west and north of the Trafalgar Moraine. Thousands of acres of land in the immediate area are tributary to this low point. I also note that Georgetown and the Hwy 401 / Steeles corridor can also flow by gravity to this low point.
2. In addition to oversizing the Britannia Sanitary Pipeline for the expansion lands north and south of Britannia Rd, it seems economically prudent to also oversize the pipeline in anticipation of the Trafalgar Corridor, Steeles Corridor and Georgetown needs, hopefully minimizing future DC charges.
3. Given that roads are a large part of DC's may we suggest that taking advantage of the Trafalgar Rd corridor (North south Oakville & Georgetown access) with its easy access to Hwy 401 (soon to be widened east of East of Trafalgar Rd), Hwy 407 at Derry and Britannia Roads, and planned GO station, will reduce the road component of DC's and thereby help fund the costs of the sanitary mains.

4. Investing in the Trafalgar / Hwy 401 & 407 /Steeles Corridor may generate a balanced blend of residential and commercial/employment tax revenues for the towns and the region to make this project financially palatable.

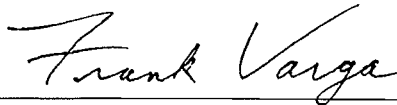
Our lands are located as follows;

Part of East Half of Lot 9 Concession 8, Trafalgar New Survey, being about 93 acres.
(second farm south of Derry Rd on the West side of 8th Line).

We also request to be put on your mailing list and provide contact information as follows:

Frank Varga
41 Clarinda Drive,
NORTH YORK ON M2K 2W4
416 733-8155

Yours truly,



Frank Varga

Copy to:

Kiyoshi Oka, P.Eng., Director, Water Services
Kiyoshi.oka@halton.ca
David M. Andrews, Acting Director of Wastewater Service
David.andrews@halton.ca

Mr. Chris Hamel - AECOM
Chris.hamel@aecom.com

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:47 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water and Wastewater Servicing Master Plan Public Informaiton Meeting No. 2
Attachments: Letter to David Simpson March 11, 2011.PDF

From: Pepe, Domenica [<mailto:peped@orlandocorp.com>]
Sent: Friday, March 11, 2011 2:47 PM
To: Simpson, David
Cc: Wolk, Blair; chris.hamel@aecom.com
Subject: Sustainable Halton Water and Wastewater Servicing Master Plan Public Informaiton Meeting No. 2

Please see attachment.

Thank you.

Domenica Pepe
Administrative Assistant
Orlando Corporation
Tel: 905-677-5480 Ext. 383
Fax: 905-677-2824
peped@orlandocorp.com



ORLANDO CORPORATION

6205 Airport Road, Mississauga, Ontario L4V 1E3 Telephone: (905) 677-5480 Fax: (905) 677-2824

via email to david.simpson@halton.ca

March 11, 2011

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd.
Oakville, ON L6M 3L1

**Re: Sustainable Halton Water and Wastewater Servicing Master Plan
Public Information Meeting No. 2**

We wish to thank the Region of Halton for the opportunity to provide comments regarding its Water and Wastewater Master Servicing Plan.

In general we support the Region's long range plan to develop a water and wastewater infrastructure strategy to serve both the current and future residents and businesses within the Municipality. However, we have concerns regarding the future build-out of the program, specifically as it relates to accommodating growth currently projected within the 2031 time horizon.

In recent years, Orlando Corporation has provided the Region with employment studies showing densities within the warehouse and distribution industry continue to decline, and are significantly below what is typically being assumed for planning purposes by municipalities in the GTA, including Halton. Given the Region has been mandated to accommodate employment per the Provincial Growth Plan, it is imperative for the Region to plan its future infrastructure needs around current market conditions together with trending data for each of the relevant employment markets it serves.

We know the planned growth of 137,000 employees in Halton Region (per the PIC information) will be accommodated in an array of employment types and built forms. However, we also know warehouse and distribution facilities will strategically locate along the 401 corridor and will consume vast amounts land with fewer employees due in large part to advances in automation. As a result, the lands currently designated along the Trafalgar/Derry and the Halton Hills corridors will not be sufficient enough to accommodate the employment targets for this sector of the market; consideration must be given to accommodating additional lands outside those designated through the conformity exercise (i.e. ROPA 38).

Mr. David Simpson
March 11, 2011
Page 2



In summary, Orlando respectfully requests the Region give ample consideration to accommodating future employment lands specifically as it relates to providing adequate servicing capacity beyond the lands currently designated. We believe these additional lands will be required within the 2031 time horizon if the Region intends on meeting its employment target objectives.

We look forward to working with the Region in an effort to advance its population and employment growth objectives.

Yours truly,

ORLANDO CORPORATION

A handwritten signature in black ink, consisting of several large, fluid, overlapping loops that form a stylized representation of the letters 'BW'.

Blair Wolk, MBA, P.Eng.
Director of Development

c.c.: Mr. Chris Hamel, AECOM (*via email to chris.hamel@aecom.com*)

From:
To: [Christina Commisso](#)
Cc: david.simpson@halton.ca; [Hamel, Chris](#)
Subject: Letter to the Editor re. May 3rd Champion article: "Timberlea residents may get lake-based water"
Date: March 7, 2011 12:01:23 AM
Attachments: [Letter Response re. Switching Milton to Lake Water 5March2011 PDF.pdf](#)
[ATT2292058.txt](#)
[Letter Response re. Switching Milton to Lake Water 5March2011.docx](#)

Dear Christina,

Sorry, I couldn't find the instructions on the newspaper's website for writing Letters to the Editor, so I'm responding to your front-page article in the Thursday, March 3rd newspaper "Timberlea residents may get lake-based water" via the attached letter. I'm copying the Halton Region representatives you referred to in the article, and I hope that perhaps they could add any key messages that they'd like to get across to the public about Milton's water supply -- maybe as a footnote(?).

Thank you for your article!

March 5, 2011

Dear Editor of The Canadian Champion,

The front page story on Thursday, March 3rd's Canadian Champion did, indeed, raise red flags for me regarding the likelihood of bringing more lake-based water to Milton to meet the demand of our growing community. Those who are relative newcomers to Milton may not realize that our community's growth was paralyzed for years due to water supply issues -- until "The Big Pipe Project" initiated the current exponential rate of population growth. Milton's population growth is expected to continue, and I believe that conservation efforts need to be stepped up sharply to prevent the demand for water from growing beyond our current consumption rates.

The World Water Council's Report "World Water Vision: Making Water Everybody's Business" (<http://www.worldwatercouncil.org/index.php?id=961>, published in 2000), indicated that per capita residential water use rates were about 350 litres per person per day in North America and about 200 litres per person per day in Europe -- and rising -- while domestic water use in countries like those in sub-Saharan Africa were only about 10 to 20 litres per person per day. Water consumption in these latter places is far less than the recommended basic water requirements of about 50 litres per person per day reported by Environment Canada (www.ec.gc.ca) as necessary for drinking water, sanitation services, bathing and food preparation for moderate climatic conditions and average activity levels. Much of our water consumption in Canada is a result of wasteful water use (obviously we can do better if European countries get by with almost 40% less water each day).

Fortunately, we already have the technology to reduce our water consumption at the municipal level*:

- metering
- water recycling systems
- wastewater re-use
- flow control devices
- distribution system pressure reduction
- water saving devices (efficient fixtures, appliances and retrofits)
- drought resistant landscaping (xeriscaping)
- efficient sprinkling/irrigation technology
- new process technologies
- plant improvements

(these are just the "structural" tools, many of which are also available at the residential scale; there are more municipal tools available under the categories of operational, economic and socio-political initiatives (*Reference: www.ec.gc.ca/eau-water).

The “infill” type of development that’s been mandated for the older parts of Milton will help keep the water infrastructure costs down because much of the infrastructure is already there. That’s the good news. The bad news is that we’re still learning about water treatment. Lake-based water may be cheaper than groundwater because treatment isn’t adequate. The World Water Council states that: “Water quality may be the biggest emerging water problem in the industrial world, with the traces of chemicals and pharmaceuticals not removed by conventional drinking water treatment processes now being recognized as carcinogens and endocrine disrupters.” This is why many Miltonians in the older parts of town are leary of the proposed switch to a lake-based system, and why we must continue to invest in our Regional water supply system – including Source Water Protection work (Please see www.protectingwater.ca for more information on the joint plans of Conservation Halton and Hamilton Conservation Authority).

Just to remind everyone: water is metered in the urban part of Milton; that means that one way of reducing household operating costs is to reduce water consumption. Please remind all members of your household and neighbourhood not to use it wastefully! Also, please remind everyone that it’s a lot easier to prevent water pollution in the first place than it is to clean it up (watch what you pour down the sink or the storm sewer!).

Sincerely,

cc. by e-mail: David Simpson, Halton Region (david.simpson@halton.ca)
Chris Hamel, Halton Region (chris.hamel@aecom.com)

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, February 08, 2011 10:54 AM
To: Bhabha, Fatima; Borowiec, Laura
Subject: FW: Sustainable Halton Water & Wastewater Class EA, PIC #2
Attachments: sustainablehaltonwaterwasteEA.pdf; PipelineNeighbours.pdf; digsafedigsmart.pdf

-----Original Message-----

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Monday, February 07, 2011 12:44 PM
To: Campbell, Chris
Cc: Huk, Dave; Tarabain, Mahdi; Pawlus, Jacek; Duong, John; Liu, Mickey; Bielawski, Magda
Subject: FW: Sustainable Halton Water & Wastewater Class EA, PIC #2

FYI

-----Original Message-----

From: Walter Watt [<mailto:WWATT@tnpi.ca>]
Sent: Monday, February 07, 2011 10:56 AM
To: chris.hamel@aeccm.com; Simpson, David
Cc: Satish Korpai
Subject: Sustainable Halton Water & Wastewater Class EA, PIC #2

Please see attached routine letter of comment.

Thanks for consulting Trans-Northern.

Property Administrator
Trans-Northern Pipelines Inc.
45 Vogell Road, Suite 310
Richmond Hill, Ontario L4B 3P6
Tel.: (289) 475-5366
Fax.: (905) 770-8675
wwatt@tnpi.ca

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Thank you



Trans-Northern Pipelines Inc.

45 VOGELL ROAD, SUITE 310
RICHMOND HILL, ONTARIO L4B 3P6
TEL: (905) 770-3353 FAX: (905) 770-8675

wwatt@tnpi.ca

2011-02-07

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, Ontario L6M 3L1

Dear Mr. Simpson:

**Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Study
TNPI Ref.: OK-11 to MP-74**

Thank you for notice of the Public Information Centre in connection with your study.

I confirm that Trans-Northern's petroleum products transmission pipelines cross your study area from west to east within the City of Burlington and the Town of Oakville, south of the QEW. If your study anticipates any facilities which must be carried north-south across the pipelines, please note that these would have to be designed and implemented in accordance with the Pipeline Crossing Regulations, and related standards and codes. Any construction work within 30 metres of pipeline facilities would require clearance in accordance with S. 112 of the National Energy Board Act. Technical guidelines and application procedures are available upon request.

Thanks again for including Trans-Northern in your circulation.

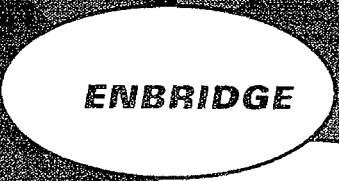
Yours very truly,

Walter H. Watt
Property Administrator

WHW/ww

Info: Mr. S. Korpala, Coordinator, Facilities & Crossings, TNPI

YOUR PIPELINE NEIGHBOURS



ENBRIDGE



TransCanada
In business to deliver



**Trans-Northern
Pipelines Inc.**

WHO WE ARE

We are your neighbours. Our pipeline networks have been providing energy products to customers across southern Ontario and Quebec for more than 50 years.

Enbridge Pipelines Inc. transports crude oil to refineries located in Quebec and Ontario.

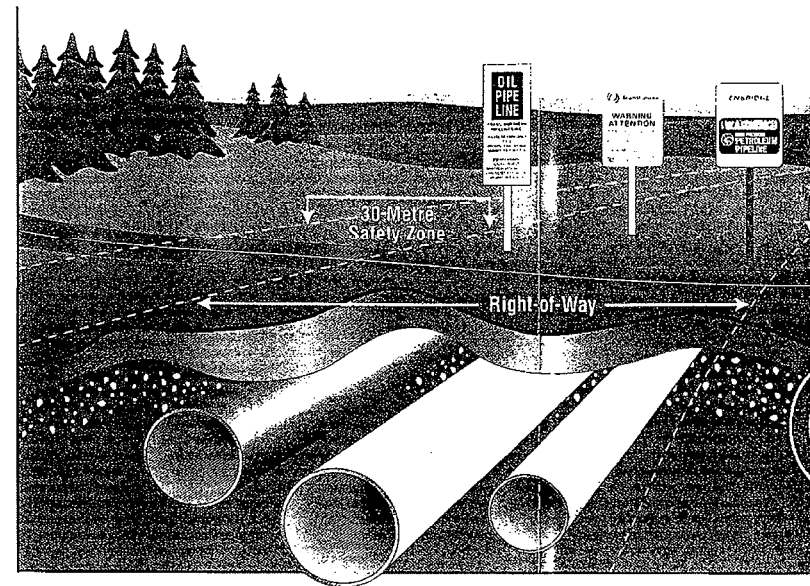
TransCanada PipeLines Limited delivers natural gas from Western Canada to natural gas distributors across North America.

Trans-Northern Pipelines Inc. moves refined petroleum products from refineries to distribution terminals throughout Southern Ontario and Quebec

Our pipelines vary in diameter from 8 to 42 inches, and, they lie buried at varying depths below the surface.

Because these pipelines transport flammable products and operate under pressure (some as high as 1440 psi/9.9 megapascals), they can become a risk to the public if they are inadvertently damaged.

To ensure public safety and to protect the environment, the National Energy Board Act requires prior written approval for any activities that may occur on or within 30m of a pipeline right-of-way.



OUR PRODUCTS

If released into the environment, our products can be hazardous.

Natural gas is odourless and colourless, lighter than air and flammable. It can explode if it accumulates in excavations, buildings or basements.

Crude oil is liquid and can collect in water-bodies and subsurface soil, it is flammable, and, it can explode.

Refined petroleum products include gasoline, jet and diesel fuel, stove and furnace oil. These products have the same properties as crude oil.

If you observe an or near our pipeli

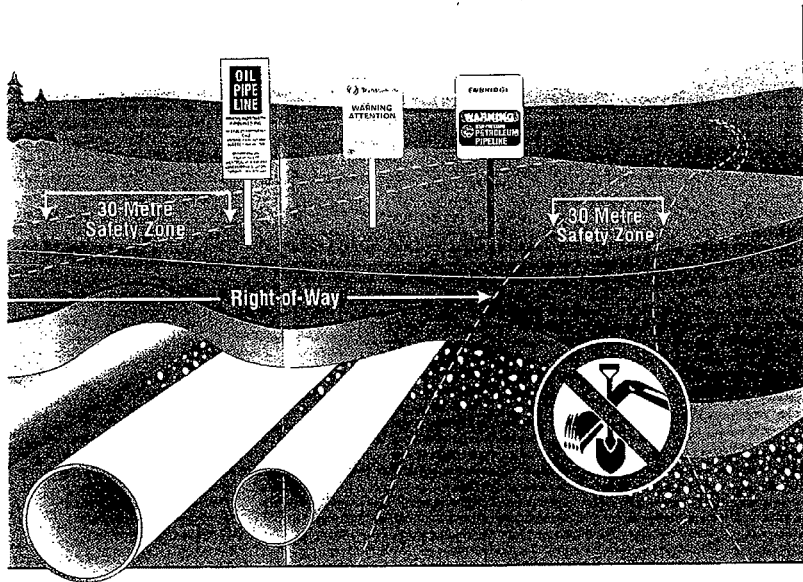
- frost build-up
- bubbles in stan
- pool of oily liqu
- strong petroleu
- dead or discol

please call one of

In the event of a

- stop all activity
- turn off vehicle
- extinguish any f
- evacuate to a s
- do not return t

call 911 and one of



DUCTS

ment, our products

ss and colourless,
able. It can explode if
ons, buildings or

can collect in water-
l, it is flammable, and,

roducts include
l, stove and furnace oil.
ame properties as

If you observe any of the following on or near our pipeline rights-of-way:

- frost build-up
- bubbles in standing water
- pool of oily liquid
- strong petroleum odour
- dead or discoloured vegetation,

please call one of our EMERGENCY numbers.

In the event of an emergency:

- stop all activity
- turn off vehicles and power equipment
- extinguish any lights or flames
- evacuate to a safe distance
- do not return to the site,

call 911 and one of our EMERGENCY numbers.

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Planning any work on or within 30m of our pipeline rights-of-way?


Contact one of our **PLANNING** numbers for written approval.

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Call the appropriate **STAKEOUT** number at least 72 hours before you dig or enter the right-of-way safety zone.

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800.668.2951
800.665.1766 (East of Scarborough)

800.827.5094

905.770.3353
Ext 211 (collected)

ON1CALL
ONTARIO ONE CALL

905.709.1717
800.400.2255
www.on1call.com

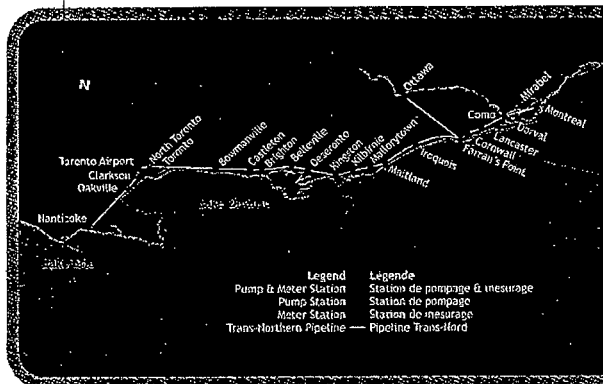
877.420.8800

888.982.7222

800.361.0608

A History of Safety

Trans-Northern Pipelines Inc. (TNPI) operates a petroleum products pipeline that spans 800 km across southern Ontario and Quebec.



Obey the Law

All activities on or near our pipeline right-of-way are regulated by the National Energy Board Act. Under this Act, anyone planning to undertake any construction or excavation on or near our right-of-way must first obtain written approval from TNPI. Permits are required for:

- Underground utility cabling/piping or pole installations/replacements
- Fencing
- Blasting
- Soil removal and excavation
- Crossing the right-of-way with heavy equipment (backhoes, graders, tractors, > trucks).

For More Information

For tips on how to plan work and excavate safely, contact:



Website: www.orcga.com
Telephone: 1.866.446.4493

If you are considering any work near our pipeline, contact us through:

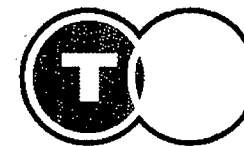


For more information about applicable regulations, crossing guidelines, detailed mapping, or, to obtain one of our Safety videos or arrange a Pipeline Safety Seminar, contact us at:



Trans-Northern Pipelines Inc.

45 Vogell Road, Suite 310
Richmond Hill, ON
L4B 3P6
Website: www.tnpi.ca
Telephone: 905.770.3353
Facsimile: 905.770.8675



Trans-Northern Pipelines Inc.

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...for your safety and those around you.



OIL PIPE LINE

TRANS-NORTHERN PIPELINES INC.

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CALL
ONTARIO 1-800-361-0608
QUEBEC 1-800-463-7623

BEFORE DIGGING
CALL (COLLECT)
MONTREAL (514) 645-3701
LANCASTER (613) 347-2463
TORONTO 416-778-2261

Keep Locates On-Site

Keep copies of all locates on site at all times. Be sure to share this information with your crew, contractors and heavy equipment operators.

TNPI will use coloured flags or paint to identify its facilities. Observe any paint marks, flags and wood stakes on the ground. Preserve these marks to the extent possible. If your work changes in any way or if the markers are destroyed or lost call On1Call for a re-locate.

COLOUR CODE
FOR MARKING
UNDERGROUND UTILITY LINES

	WHITE - PROPOSED EXCAVATION
	PINK - TEMPORARY SURVEY MARKINGS
	RED - ELECTRIC POWER LINES, CABLES, CONDUIT AND LIGHTING
	YELLOW - GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
	ORANGE - COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
	BLUE - POTABLE WATER
	PURPLE - RECLAIMED WATER, IRRIGATION AND SLURRY LINES
	GREEN - SEWERS AND DRAIN LINES

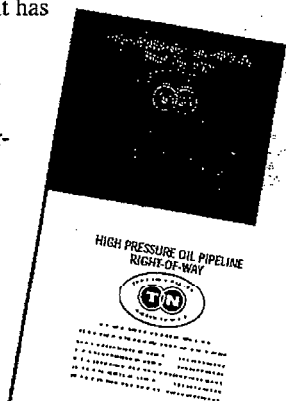
Working Near our Pipeline

If you are considering any work near our pipeline, contact us through On1Call immediately to determine if any prior approvals may be required, or, if there are any restrictions you need to know about. TNPI will locate its facilities within three (3) business days.

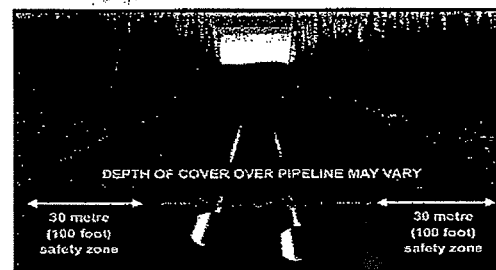


To safeguard the integrity of our pipeline and ensure worker safety, a TNPI On-Site Inspector must be present during any activity on or excavation of our right-of-way.

- Do not assume the location or depth of any utility service or pipeline until it has been fully exposed.
- Hand digging or vacuum excavation is the safest means of exposing underground services and pipelines.
- Any utility crossing our pipeline must maintain a minimum clearance of 0.3m (12").
- Dumping or stockpiling of materials on our right-of-way is strictly prohibited.
- Installing any structure such as a building, a shed, pool or a patio on our right-of-way is strictly prohibited.



- If the pipeline's coating is damaged in any way, alert the On-Site Inspector immediately.
- Ensure any pipeline damage is properly repaired before backfilling.
- To avoid damaging the pipeline while backfilling, clear the fill material of any rocks or debris, or, pad the pipeline with sand or fine granular material.

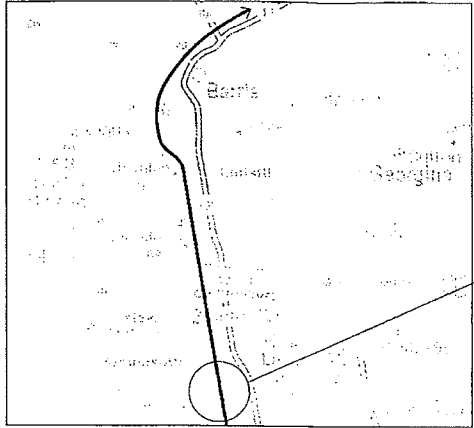


Emergency Preparedness

Be ready for the unexpected. Before starting any activity or excavation, compile a list of all utility and pipeline contact numbers.

If a pipeline is struck, stop all work and contact the On-Site Inspector immediately. If there is no On-Site Inspector, call

**TNPI'S 24 HOUR
EMERGENCY HOT-LINE
1.800.361.0608
IMMEDIATELY**

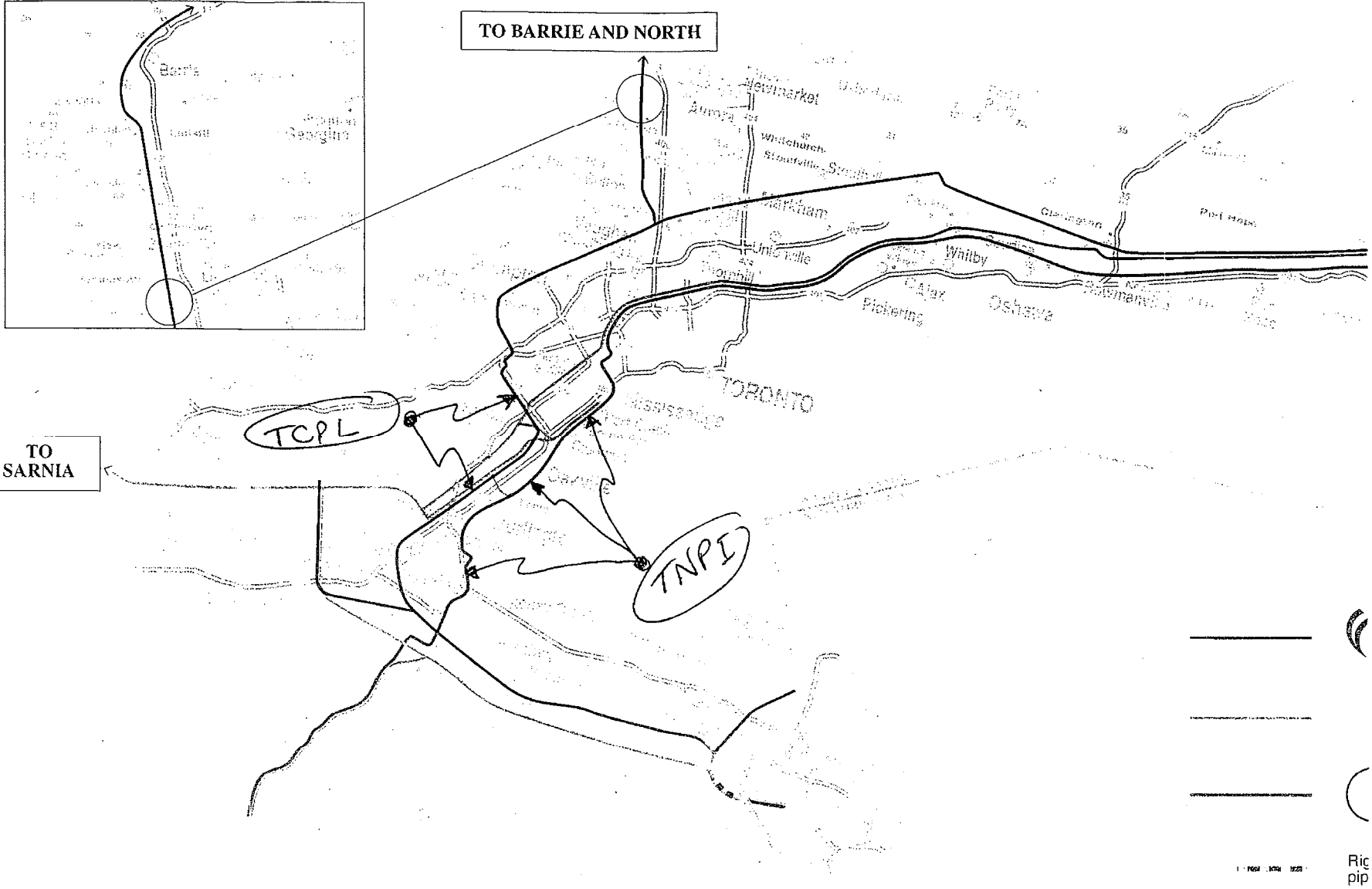
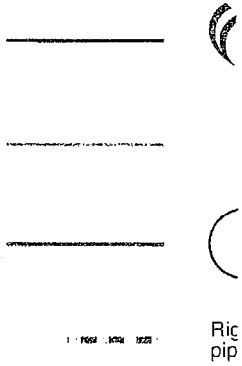


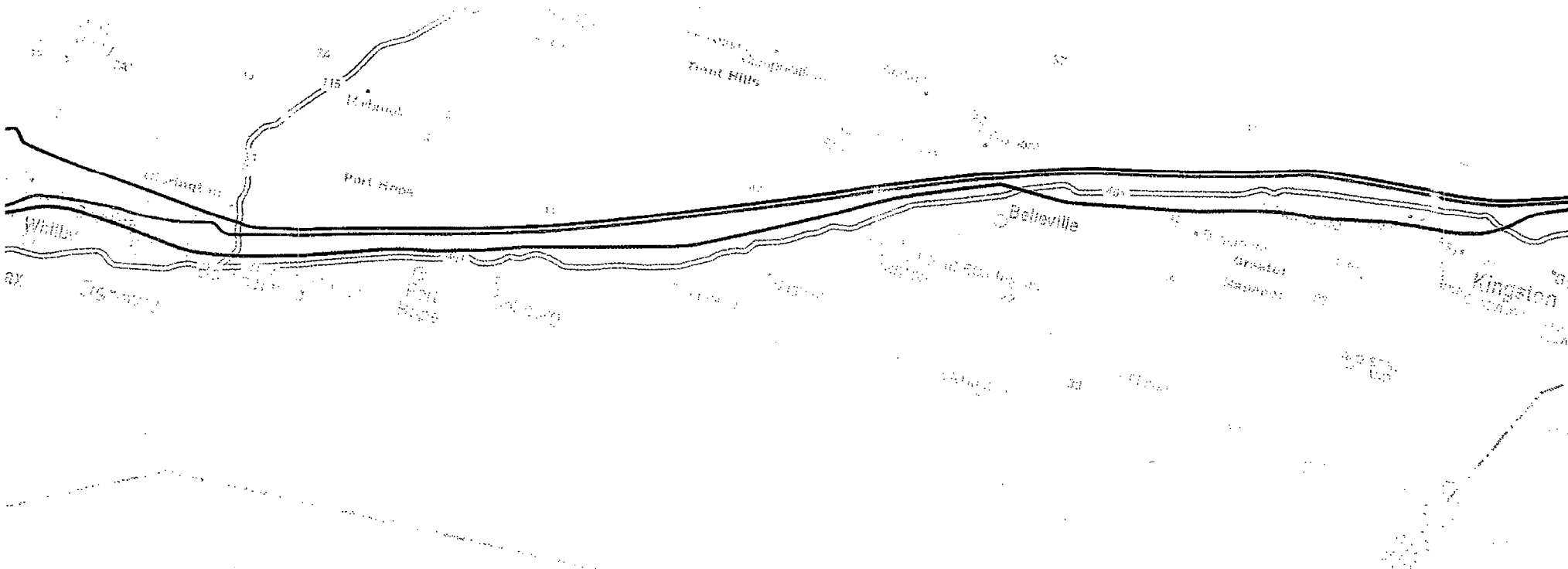
TO BARRIE AND NORTH

TO SARNIA

TCPL


TNPI





 **TransCanada**
In business to deliver

ENBRIDGE
Enbridge Pipelines Inc.

 **Trans-Northern Pipelines Inc.**

Right-of-way section where pipelines cross over each other

OIL PIPE LINE

TRANS-NORTHERN PIPELINES INC.

IN CASE OF EMERGENCY CALL
ONTARIO 1-800-361-0608
QUEBEC 1-800-463-7628

BEFORE DIGGING CALL (COLLECT)
MONTREAL (514) 645-3701
LANCASTER (613) 347-2463
TORONTO (905) 678-2261

 **TransCanada**
In business to deliver

WARNING ATTENTION

High pressure natural gas pipeline
Gazoduc haute pression

In case of emergency call
En cas d'urgence appelez
1-888-982-7222

 Call before you dig
Appelez avant de creuser

 Call Be
Emerg

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, May 10, 2011 8:44 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: ROPA 39 Response
Attachments: York Trafalgar ROPA 39.docx

From: Peter W. Meiklejohn, P. Eng. [<mailto:pmeiklejohn@yorktrafalgar.com>]
Sent: May 6, 2011 1:23 PM
To: David Simpson; Hamel, Chris
Cc: Dave Andrews; Kiyoshi Oka
Subject: FW: ROPA 39 Response

Gentlemen,

We have submitted on Wednesday to Ron Glenn the attached letter. Apologies for the delay in your copies.

Sincerely,

Peter W. Meiklejohn, P. Eng.

York Trafalgar Corp.
1039 Fourth Line
Milton, Ontario. L9T 6P9
Cell: +1 416 909 6724
Phone: +1 905 878 9396

Fax: = +1 905 878 1886
pmeiklejohn@yorktrafalgar.com

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From: Peter W. Meiklejohn, P. Eng. [<mailto:pmeiklejohn@yorktrafalgar.com>]
Sent: Wednesday, May 04, 2011 4:33 PM
To: Glenn, Ron
Cc: 'ygruehl@yorktrafalgar.com'; Donald Mitchell
Subject: ROPA 39 Response

Ron,

Attached is a digital copy of our letter to you. It has been signed and faxed to the Region, and the original will follow by mail.

Sincerely,

Peter W. Meiklejohn, P. Eng.

York Trafalgar Corp.

1039 Fourth Line
Milton, Ontario. L9T 6P9
Cell: +1 416 909 6724
Phone: +1 905 878 9396

Fax: = +1 905 878 1886
pmeiklejohn@yorktrafalgar.com

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May 5, 2011

Region of Halton
Legislative and Planning Services Department
1151 Bronte Rd.
Oakville ON.
L6M 3L1

Attention: Mr. Ron Glenn, Director of Planning Services

**Re: ROPA 39 – Public Comments and
Sustainable Halton Water and Wastewater Servicing Master Plan
Class Environmental Assessment**

Dear Ron:

York Trafalgar Corp has attended the Public Information Centre #1 for ROPA #39. We wish to state that we support the overall objectives and present direction identified.

However matters with respect to the timing of the various zones as set out within the details require further attention.

Our review of the public slides and general information from the parallel EA on Water and Wastewater Master Plan, York Trafalgar, in conjunction with other supporting Milton Developers, submitted to the Region of Halton our *“Letter of Support”* dated March 11, 2011. Although we approve of the progression, direction and scope of Halton’s processes to date, we respectfully request an opportunity to review the background material used to develop the options presented and now the BPE structure. Although the information slides were informative they provided in a ‘high level’ position of the Region. We would like an opportunity to have our Engineers and Planners review the background materials, design studies, available topographical and base plan information. It is our review of this information that will allow us to proactively work with the Region of Halton and provide continued meaningful input in the ROPA and EA processes.

.....2/

Regional Municipality of Halton
Attn: Mr. D. Simpson
March 5, 2011
Page 2 of 2

We also understand that in parallel with these efforts, the Finance Department and Planning Department are also reviewing the financial and planning implications of the options put forth to date. Again, we believe that we can contribute meaningfully and in some cases provide necessary input; and as such, we would also like to be fully involved in any process that brings all three (3) Regional Departments (i.e. Public Works Department, Finance Department and Planning Department), together during this review process and prior to adoption of ROPA 39 and the public filing of the Water and Wastewater Master Plan.

Again, we believe continued and progressive partnership with the Region of Halton and the Development Community is key to realising Halton's long term vision while allowing the Development Community to effectively manage cash flow commitments and attract 'blue chip' employment corporations to the Halton Region in a timely fashion.

Please indicate when the material requested above is available for our review.

In the spirit of working together – Thank You

Sincerely,

York Gruehl

Copy to:

Kiyoshi Oka, P.Eng., Director, Water Services

David M. Andrews, Acting Director of Wastewater Services

Mr. Chris Hamel - AECOM
105 Commerce Valley Drive West
Markham, ON, L3T 7W3

Bhabha, Fatima

From: Campbell, Chris
Sent: Wednesday, April 13, 2011 1:10 PM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Milton Water Servicing
Attachments: ClassEA_Sustainable_PIC2_CommentSheet.pdf

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Wednesday, April 13, 2011 12:51 PM

Cc: Huk, Dave; Pawlus, Jacek; Campbell, Chris; Hamel, Chris
Subject: Milton Water Servicing

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Servicing Plan Study and we appreciate the telephone comments you have provided as part of the second round of public consultation.

As we discussed during our telephone conversation today, all possible alternatives are currently being considered as part of the water servicing plan. Based on this review, a preliminary strategy has been presented to the public for comment. Approximately 28% of Milton residents are currently serviced by groundwater. Since the groundwater supply is finite with no increased water takings being proposed, some groundwater areas of Milton are being considered for transfer to lake-based water supply in order to accommodate ongoing intensification and infill development supported by policies in the Regional Official Plan.

Work is currently underway to maximize the capacity of the existing groundwater system by optimizing well field infrastructure and by partnering with Milton residents and businesses in effective water efficiency programs. Despite these initiatives, both lake and groundwater based water supplies will be required to meet ongoing growth requirements. There are no plans to mix or blend the groundwater based water with the lake based water in our future servicing strategy. The growth projections indicate that the percentage of Milton's population receiving lake-based water will need to increase from 72% to 90% by 2031 in order to meet Milton's future needs, while sustaining and protecting the existing groundwater system.

Most of Milton's industrial, commercial and institutional (ICI) areas are currently serviced by lake water. As part of the servicing strategy, any remaining groundwater serviced ICI areas in Milton will be reviewed for possible conversion to lake based water servicing first before any consideration is given to switching over residential areas. For example, the proposed conversion of downtown intensification area from Ontario Street to Thompson road on both sides of Main St. and Nipissing road (Nipissing commercial triangle) to lake based servicing will not affect the groundwater supply to current residents.

Lastly, we can assure you that all of Halton's groundwater and lake-based water systems provide equally safe and high quality drinking water to our residents and businesses. Halton's water treatment systems, both well based and lake based, continually meet, and often exceed, all provincial regulatory requirements. We will ensure that this standard of high quality water is maintained for any areas switched from groundwater to lake-based water in the future.

We are currently reviewing all comments received on the preliminary strategy and we will be responding to all issues raised by the public through the master planning process. I would appreciate it if you could document your comments on the attached comment sheet and return to me.

<<ClassEA_Sustainable_PIC2_CommentSheet.pdf>>

Regards,

David

David Simpson, P.Eng.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7601

Toll free: 1-866-442-5866

Fax: 905-825-8822

Website: www.halton.ca



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Thank you

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Thank you

To: david.simpson@halton.ca: Hamel, Chris
Subject: Switching the Timberlea Neighbourhood to Lake Based Water
Date: March 3, 2011 10:55:26 PM

Gentleman,

As a Timberlea resident, I was very surprised to see an article in today's edition of the Milton Champion indicating a plan to transition the Timberlea neighbourhood to a lake based water supply. Discussion of an alternate water supply for 'old' Milton has been on-going for a long time, however in recognition of community wishes, the Town and Region have previously always committed to maintaining the well based water supply in 'old' Milton.

I am upset over the proposed switch to lake based water for the Timberlea area to account for intensification in the downtown Milton core. While I understand that the Milton core has been designated a growth area by the province, and that the region will be required to identify an economically viable water supply for this area, I do not support being forced into a lake based water supply to accommodate this growth.

Given that infrastructure in the downtown core likely pre-dates infrastructure in the Timberlea neighbourhood, and will presumably need to be upgraded to account for intensification pressure, why has the Timberlea neighbourhood been selected to be connected to the 'big pipe' as opposed to the proposed growth area? Given that the Timberlea neighbourhood is completely built out and outside of the targeted growth/intensification area, it does not seem appropriate to disrupt two separate neighbourhoods to account for growth in the downtown core/intensification areas.

I also wonder how the potential transition to lake based water for Timberlea will impact sanitary sewers in the Timberlea neighbourhood. I understand this area is treated by the Milton Waste Water Treatment Plant, which is largely at capacity and has limited potential for expansion due to low summer flows within Sixteen Mile Creek. Is the intent then also to re-direct sewage from the Timberlea neighbourhood to the Mid Halton Waste Water Treatment Plant? How will any potential re-direction of sewage further disrupt the neighbourhood?

More importantly, I believe the water quality from the Kelso and Campbelville Well fields to be higher than that from Lake Ontario. Studies have shown that pharmaceuticals, which are not treated by the waste water treatment plants are becoming increasingly prevalent in our surface water sources. There is also research out there indicating a rapid dwindling of male fish species in Lake Ontario and the Great Lakes. While there are inherent risks associated with groundwater, increased regulation since Walkerton and better management and policies associated with well head protection areas and the 2 and 5 year zones of influence have reduced these risks. Risks associated with degraded pharmaceutical products are also much lower in groundwater as compared to lake Ontario, due to the more limited reliance on septic tanks as opposed to municipal treatment. Additionally, the groundwater has been filtered through sand layers, etc., before reaching the water table.

The well based water supply in old Milton is also free of Fluoride. Many large municipalities, including Waterloo and Calgary have recently eliminated Fluoride from their water supplies. The potential health risks as opposed to health benefits are still being debated in some municipalities, and there has been strong support from the Timberlea neighbourhood as well as all of old Milton to refrain from the addition of Fluoride in our water supply.

Given that much of the downtown core of Milton that was identified for growth by the province lies within the regulated floodplain, and is not contained within a special policy area, is it necessary to transition Timberlea to a lake based supply in 5 years, when development approvals for intensification within the downtown core will be time consuming and difficult to obtain?

Could the incorporation of additional water conservation measures and investigation and treatment of

groundwater exfiltration into the existing sanitary sewer system within old Milton eliminate the need for a lake based system for Timberlea? As this neighbourhood as well as all of old Milton was developed long before incorporation of low flow toilets, and water saving shower heads, and as the region's rebate program for old Milton is very poorly advertised, there may be considerable water savings available. I understand that the average daily domestic water use has dropped substantially over the past decade.

I would appreciate an opportunity to comment more fully on the issue following a review of any public studies or presentation material that may be available. Could you please provide me with a link to any relevant information?

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, February 08, 2011 10:52 AM
To: Bhabha, Fatima; Borowiec, Laura
Subject: FW: Notice of PIC #2 - Halton

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Tuesday, February 08, 2011 10:07 AM
To: Pawlus, Jacek
Cc: Campbell, Chris
Subject: FW: Notice of PIC #2 - Halton

Jacek,

Please update the MP mailing list with the contact below (add to Special Interest Group section) and remove Jane White (under returned mail section).

Thanks,

David

From: Cynthia Robinson [<mailto:crobinson@ossqa.com>]
Sent: Tuesday, February 08, 2011 10:01 AM
To: Simpson, David; chris.hamel@aecom.com
Subject: Notice of PIC #2 - Halton

Good Morning!

I just received your notice in the mail and would like to be included on your mailing list. Would you also kindly remove Ms. Jane White from your list, we do not have anyone by that name at this office. My contact information is as follows:

Cynthia Robinson
Environment and Education Manager
Ontario Stone, Sand & Gravel Association
5720 Timberlea Blvd, Unit 103
Mississauga, ON L4W 4W2

Ph: 905-507-0711
Cell: 416-315-3916
Fx:905-507-0717

Websites: www.ossqa.com www.theholestory.ca

Thanks
Cynthia

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 1:28 PM
To: Bhabha, Fatima
Subject: FW: Status of the Sustainable Halton Water and Wastewater Master Plan
Attachments: Master Plan Schedule_Jan 2011.ppt

From: Simpson, David
Sent: Tuesday, January 18, 2011 7:29 PM
To: 'David Scott'
Cc: Duong, John; Pawlus, Jacek; 'Campbell, Chris'; Hamel, Chris
Subject: RE: Status of the Sustainable Halton Water and Wastewater Master Plan

Hi David,

Thank you for your interest in our Sustainable Halton Water and Wastewater Master Plan.

As per your inquiry, I have provided you with the key actions and status of the Master Plan deliverables below:

MASTER PLAN PROCESS AND TASKS:

1. Principles and Policy Development (completed)

- guiding principles and policies for the development and evaluation of water and wastewater servicing (mature state servicing considerations, security of supply, water efficiency, etc)
- extensive review of design criteria
- develop approach to integrate intensification impact

2. Baseline Analysis: (completed)

- full inventory data collection and review of existing water and wastewater infrastructure and servicing capacity (Trunk level)
- assessment of servicing capacity for intensification (Local level)
- assessment of long term groundwater aquifer yield sustainability
- Region wide assessment of environmental features
- review of greenfield and intensification growth areas (constraints and opportunities)

3. Development of Servicing Concepts (completed)

- high level evaluation of all feasible servicing concepts (natural, social and economic)
- internal and external review of concepts

4. Development of Servicing Alternatives (in progress)

- detailed evaluation of short listed concepts to generate preliminary preferred servicing strategy (natural, social and economic)
- loading of water and wastewater hydraulic model with Planning BPEs
- internal and external review of alternatives
- draft capital implementation plan (greenfield and intensification)
- draft DC Technical Report

5. Development of Final Capital Implementation Plan (future)

- final capital implementation plan (greenfield and intensification)
- consideration of over sizing
- integrated yearly capital project phasing with respect to Planning BPEs and Transportation harmonization
- final DC Technical Report

6. Master Plan Document (future)

- final Master Plan documentation
- 45 day public review period
- file study completion

The approximate schedule is also attached for your reference.

You are welcome to participate and provide feedback to the preliminary servicing water & wastewater alternatives in the upcoming second round of PICs are as follows:

Municipality	Date	Time	Location
Town of Oakville	Wednesday, February 16, 2011	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
City of Burlington	Thursday, February 17, 2011	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Milton	Tuesday, February 22, 2011	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Banquet Hall)
Town of Halton Hills (Georgetown)	Thursday, February 24, 2011	6:30 -8:30pm	Christ the King High School 161 Queen Street East, (Cafeteria)

In the interim, please let me know if you have any comments or questions.

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



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Thank you

From: David Scott [<mailto:Dscott@tmig.ca>]
Sent: Tuesday, January 18, 2011 9:20 AM
To: Simpson, David
Subject: Status of the Sustainable Halton Water and Wastewater Master Plan

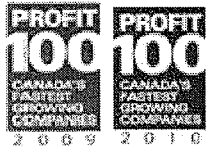
Good morning David

Further to the PIC's which took place last spring, I am checking in on the status of the SHP Master Plan. It would be much appreciated if you could provide a brief update on the project status and next steps. Thanks David.

David Scott, P. Eng.
founding partner

TMIG | THE MUNICIPAL INFRASTRUCTURE GROUP LTD
8800 Dufferin Street, Suite 200 | Vaughan Ontario Canada L4K 0C5 | office 905.738.5700 ext 221 | fax 905.738.0065

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Bhabha, Fatima

From: Campbell, Chris
Sent: Thursday, February 24, 2011 3:05 PM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water and wastewater Master Plan

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Thursday, February 24, 2011 3:03 PM
To: Gerald Asa
Cc: Campbell, Chris; Hamel, Chris
Subject: RE: Sustainable Halton Water and wastewater Master Plan

Hi Gerald,

We do not have an executive summary for Acton, however, the Public Information Centre presentation will be available on-line at the Sustainable Halton Water and Wastewater Master Plan webpage for your reference.

Please follow this link for all the PIC materials presented for the Master Plan:
http://www.halton.ca/planning_sustainability/environmental_assessments_eas/ea_studies/sustainable_halton_water_wastewater_master_plan/

If you have any questions or concerns, feel free to contact me at anytime.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



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Thank you

From: Gerald Asa [<mailto:gasa@efforttrust.ca>]
Sent: Wednesday, February 23, 2011 3:37 PM
To: Simpson, David
Subject: Sustainable Halton Water and wastewater Master Plan

Dear Mr. Simpson

I am in receipt of the notice of public information centre #2. We own the Market Place Plaza in Acton. I was wondering if there was an executive summary available as it pertains to Acton and if that could be sent to me.

Gerald Asa
The Effort Trust Company
242 Main Street East
Hamilton, Ontario
Canada L8N 1H5

Tel: 905-667-4877
Fax: 905-528-2165

You can now view our property listings at www.efforttrust.ca

_____ Information from ESET NOD32 Antivirus, version of virus signature database 5900 (20110223)

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, April 11, 2011 10:11 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Mailing List update

From: Pawlus, Jacek [<mailto:Jacek.Pawlus@halton.ca>]
Sent: Monday, April 11, 2011 8:47 AM
To: Campbell, Chris
Subject: Mailing List update

Chris,

Can you please remove **Mr Silvio Korasantucci, Bell Canada, Creek Bank Road, F13, W. Mississauga ON L4W 5R1** from the mailing list (wrong address).

Thanks

Jacek

Jacek Pawlus, MMI, P.Eng.
Project Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7204
Cell: 905-464-5527

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 1:27 PM
To: Bhabha, Fatima
Subject: FW: Halton Water and Wastewater Master Plan

From: Michael Barton [<mailto:MBarton@landmarthomes.com>]
Sent: Wednesday, February 09, 2011 10:11 AM
To: Simpson, David
Subject: Halton Water and Wastewater Master Plan

David,

I will be attending the public information centre on February 16th with respect to the Class EA for the Halton Water and Wastewater Master Plan. This project is interesting to me since I live in Oakville and I also work in the land development industry. I would like to be included on the mailing list for any key information. You can use this e-mail address for any electronic information. My address is 337 Parkridge Crescent, Oakville, L6M 1A8.

Michael Barton
Vice President, Development
Landmart Homes

Mobile: 905-512-8991
Office: 905-304-6459 ext. 234
E-mail: mbarton@landmarthomes.com

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:38 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan

From: Matthew Ballaban [<mailto:mballaban@gamsby.com>]
Sent: Thursday, February 24, 2011 11:55 AM
To: Simpson, David
Cc: Paul McLennan
Subject: Sustainable Halton Water & Wastewater Master Plan

David,

It was nice to meet you at the PIC early this week. Your team has done a good job presenting the information and challenges for Halton's water infrastructure to 2031.

In reviewing the planning work for water conveyance to Georgetown, it might be worth considering making provisions for a rechlorination facility at the proposed Zone 5 pumping station. This way you would not have to boost chlorine levels at the Oakville WPP to accommodate potentially low chlorine concentrations in the lake feed section of Georgetown. Just a thought.

Again, I appreciated you taking the time to speak with me. Hopefully we could meet again soon to discuss opportunities for G&M in Halton Region.

Regards,

Matthew

Matthew Ballaban, M.Sc., P.Eng.
Gamsby and Mannerow Limited
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Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:40 PM
To: Bhabha, Fatima
Subject: FW: weblink for Sustainable Halton Water and Wastewater Master Plan

From: Colin Best [<mailto:Colin.Best@milton.ca>]
Sent: Friday, February 25, 2011 1:04 PM
To: Liu, Mickey
Cc: Duong, John; Simpson, David; Zamojc, Mitch; 'Jim Steeves'; Bill Mann
Subject: RE: weblink for Sustainable Halton Water and Wastewater Master Plan

Thanks Guo for the information.

For everyone copied on this email I want to respond to Jim Steeves email from Milton Green and my own comments regarding the transfer of the well based system to the lake based system in the pre year 2000 area of Milton.

As I mentioned to you David many Milton residents regard their escarpment well based water as a clean and sustainable source of water but share your concerns with the deterioration of the Walker's line well and the reduced capacity of the Kelso wells to serve the existing Milton urban area. The phasing out of the Walker's Line well makes sense as the area it serves is only 4% of Milton urban area and the costs to maintain this well will only increase which in light of provincial clean water regulations and source water protection guidelines will be increasingly difficult to maintain this well.

My priorities in terms of switching the systems where technically feasible is:

First the commercial triangle of Main St. E. and Nipissing road both sides from Thompson road to Ontario street including the Milton Mall.

Secondly where possible the employment and industrial areas on the west side of Bronte St. from Derry road to Steeles Avenue including the Robertson-Whitehouse plant at 97 Bronte St. N. and the former Meritor property at 150 Steeles Avenue both of which could be redeveloped into multiple uses and/or new residential infill areas. As well as the industrial areas along the north side of Steeles Avenue.

Thirdly I would support a switch for institutional and commercial lands such as the Allendale property, E.C. Drury Schools and the smaller retail areas at the intersections of Derry and Ontario on both sides and 500 Laurier Avenue which could also see some intensification in the next few years as all five properties have potential for other uses on them.

Lastly with great reluctance after all other options have been exhausted including greater efficiencies such as low flow toilet retrofits, would be residential areas on a neighbourhood at a time basis after all residents have been informed of the proposal.

I believe that with the above recommended commercial, industrial, employment and institutional switchovers from well to lake based systems that the proposed residential conversions made at the PIC will not be necessary for a long time.

Looking forward to the next round of public and committee meetings to discuss these issues further.

Colin Best
Vice-Chair Halton Planning & Public Works committee.
Member Halton Water Conservation advisory committee.

From: Liu, Mickey [mailto:Mickey.Liu@halton.ca]
Sent: Tuesday, February 22, 2011 10:01 PM
To: Colin Best
Cc: Duong, John; Simpson, David
Subject: weblink for Sustainable Halton Water and Wastewater Master Plan

Hi Councillor Best

Please follow this link for all the PIC materials presented for the master plan:
http://www.halton.ca/planning_sustainability/environmental_assessments_eas/ea_studies/sustainable_halton_water_wastewater_master_plan/

Please call David Simpson (at ext. 7601) for any questions on water servicing or myself for any questions on wastewater servicing. Thanks for attending tonight's PIC.

Regards,

Guo (Mickey) Liu, P.Eng., PMP
Project Manager, Wastewater Planning
Wastewater Services, Public Works, Halton Region
Tel: 905-825-6000 ext. 7235
Fax: 905-825-8822

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:42 PM
To: Bhabha, Fatima
Subject: FW: Well water to Lake water and Miltongreen blog post

From: Simpson, David
Sent: Wednesday, March 02, 2011 4:07 PM
To: 'MILTONGREEN Citizens group'
Subject: RE: Well water to Lake water and Miltongreen blog post

Hi Jim,

Our Milton groundwater taking is limited by our existing MOE Permit To Take Water. No future increases in groundwater taking are planned due to concerns of potential impact on local ecology and water balance, which makes the proposed increased integration of the lake-based system a more environmentally friendly solution. The upgrades to the Kelso facility are focused on optimizing the water treatment plant infrastructure (as opposed to the well infrastructure) which uses the water taking that we are currently permitted.

The industries in the northwest section of Milton you are referring to are already serviced by lake water and, as such, would not provide further opportunity to spare more groundwater capacity.

If you have any other questions, please give me a call at 905-825-6000, ext. 7601.

David

From: MILTONGREEN Citizens group [<mailto:miltongreen.ontario@gmail.com>]
Sent: Wednesday, March 02, 2011 2:38 PM
To: Simpson, David
Subject: Re: Well water to Lake water and Miltongreen blog post

David:

Thanks for your reply. Yes, I understood that you are contemplating SOME areas will be switched and had that in the summary in the first bullet but, unfortunately, missed it in the headline for the article. Sorry about that. I have corrected it.

Those of us on well water still feel it is better water because it likely doesn't contain contaminants that have not been discovered/determined yet to be hazardous which could be coming from all the industries upstream from the Lake Ontario intakes.

Clearly, the science TODAY indicates there is no big difference between the two water sources from a scientific quality standpoint but I am reluctant to accept this general argument since we went through similar discussions with respect to pesticides. Slowly but surely as data became available it became apparent things weren't so rosy.

Can you clarify the statement we've heard that the MOE(I think) gives us permission to take more water than we currently are? This suggests we have more water available. Is this part of the upgrading needed for the Kelso well?

Also, I have been told some industries to the NW south of 401 take almost as much water as the town does -

could they not also be switched. (maybe this is already part of your plans).

Again, thank you for the frank discussion and comments.

Regards

Jim Steeves
Chair

MILTONGREEN

On Wed, Mar 2, 2011 at 9:17 AM, Simpson, David <David.Simpson@halton.ca> wrote:
Hi Jim,

Thanks for sharing your blog posting with me and for the kind words you posted about Regional staff about public meetings -- we put a lot of work into both our public meetings and building relationships with the community so I'm glad you found the meeting helpful.

As you know, all of Halton's groundwater and lake-based water systems provide clean, safe drinking water to our residents and businesses, as our water treatment systems continually meet, and often exceed, all provincial regulatory requirements.

Something I wanted to clarify in your blog was the possibility that readers may read the title and think Halton is switching all of Milton over to a lake-based system. Currently approximately 28% of Milton residents are serviced by groundwater. Since the groundwater supply is finite with no increased water takings being proposed, some groundwater areas of Milton are being considered for transfer to lake-based water supply in order to support ongoing intensification and infill in accordance with the Regional Official Plan Amendment 38.

Although we're maximizing the existing groundwater system by optimizing well field infrastructure and by partnering with Milton residents and businesses in effective water efficiency programs, we will need both lake and groundwater based water supplies to meet ongoing growth requirements.

So while currently around 72% of Milton's population is receiving lake-based water, by 2031 this number is expected to increase by 18% (meaning around 90% of Milton would receive lake-based water) in order to meet Milton's future needs, while sustaining and protecting the existing groundwater system.

Once again thanks for sharing your posting with me and for allowing me to clarify that only **some** areas of Milton currently served by well water are being considered to be serviced by lake water in the future.

If you have any other questions, please give me a call at 905-825-6000, ext. 7601.

David

From: MILTONGREEN Citizens group [<mailto:miltongreen.ontario@gmail.com>]
Sent: Monday, February 28, 2011 8:04 PM
To: Simpson, David
Subject: Re: Well water to Lake water and Miltongreen blog post

Thanks David. I look forward to hearing from you. I did post the blog after hearing from Colin Best. I will be happy, if you think it is appropriate, to add your comments.

Regard

Jim Steeves

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:44 PM
To: Bhabha, Fatima
Subject: FW: Master Plan - PIC No. 2

From: David Schaeffer [<mailto:dschaeffer@dsel.ca>]
Sent: Tuesday, March 08, 2011 5:41 PM
To: Simpson, David; chris.hamel@aecom.com
Cc: 'Tim Warner'; 'Gary Gregoris'; 'Dave Stewart'; 'Frank Doracin'
Subject: Master Plan - PIC No. 2

Hi Dave and Chris,

At the PIC, we were advised that we would be provided with profile drawings for the sanitary sewers. We also requested this information by email following the meeting. Please advise when this information will be available.

We also wish to receive your acknowledgement that comments will be accepted after March 11th, subject to our receipt of the information requested, and the subsequent engineers' technical meeting.

Yours truly,

David Schaeffer, P.Eng.

DSEL

david schaeffer engineering ltd.

600 Alden Road, Suite 500
Markham, ON L3R 0E7

phone: (905) 475-3080 ext.224
fax: (905) 475-3081
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Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:45 PM
To: Bhabha, Fatima
Subject: FW: PIC #2 Sustainable Halton

From: Smeltzer, Paul [<mailto:Paul.Smeltzer@amec.com>]
Sent: Thursday, March 10, 2011 2:32 PM
To: Simpson, David
Cc: Kherghehpoush, Mariam
Subject: PIC #2 Sustainable Halton

Dave, was there any new servicing information presented at the PIC held in February related to Sustainable Halton. We will need to compare any new information to our servicing plans for Boyne, and possibly Derry Green. I checked the Halton website but could only find general information.

Paul D. Smeltzer, P.Eng.
Principal Consultant, AMEC Earth & Environmental
3215 North Service Road
Burlington, ON L7N 3G2

phone: 905 335-2353
fax: 905 335-1414

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:46 PM
To: Bhabha, Fatima
Subject: FW: well-based water system for old Milton

From: Bill Mann [<mailto:bill.mann@milton.ca>]
Sent: Friday, March 11, 2011 1:40 PM
To: 'carolgustafson@hotmail.com'; Simpson, David; Barb Koopmans
Cc: Best, Colin
Subject: Re: well-based water system for old Milton

Carol,

Even though I'm heading south, I wanted to get back to you to let you know that your comments and questions are appreciated and will certainly be considered by the Region and the Town. I know that David and Chris are working through the comments that they have received and that nothing has been finalized; and that staff from both the Region and Town will be having further discussions. The Town will also be providing formal comments to the Region when this and other issues have been considered in the context of both the servicing and transportation master plan updates. I believe the area that you're referring to at Steeles is the Meritor site?

I hope that this suffices until I get back?

Bill Mann
Director, Planning and Development
Town of Milton
150 Mary Street
Milton, ON
L9T 6Z5

From: Carol Gustafson [<mailto:carolgustafson@hotmail.com>]
Sent: Friday, March 11, 2011 12:00 PM
To: david.simpson@halton.ca <david.simpson@halton.ca>; Bill Mann
Subject: well-based water system for old Milton

Dear Sirs: I spoke with Barb Koopmans today from the town of Milton Planning Department. She indicated to me that there were very few areas of old Milton that could be intensified further other than the area designated for intensification by the Ontario government along Main Street and Nipissing Roads west of Ontario Street. This area would be covered by the Lake based system. I wanted to clarify my earlier conversation with Mr. Simpson. I had asked if the commercial area along Main Street running east of Ontario as far as Bronte Road could be placed on Lake based water before residential areas, like Timberlea and Dorset Park. I thought that Mr. Simpson had said that was going to be the plan. Is that correct? Also I had asked Mr. Hamel at the poster presentation in Georgetown if the roughly triangular area that appeared to be on well water, north west of the rectangle of old Milton which is bounded by Steeles, Thompson Road, Derry Road, and Bronte Rd. could be taken off the well system before the Timberlea and Dorset Park areas were removed. Mr. Hamel had said that could be a possibility with the extension of the new Tremaine watermain that could possibly link with the circle of lake based pipe that surrounded old Milton within the new development. I think that Barb Koopmans referred to this area as the Waverly development, but I could be wrong about that name, because I did not write it down. She referred me to Mr. Simpson. When I talked to Mr. Simpson previously, I believe that he said this area was already on lake-based water. Do I have this information correct? I talked to Colin Best at the transportation meeting that was held in Milton recently and he said that he would copy me the email that he sent to both of you and to Jim Steeves, my colleague from

Miltongreen, regarding the well-based system and residential areas. I would hope that you would consider his suggestions of alternate areas to remove well-based water, before taking it from the residential areas of old Milton. I would like to know if council will be providing citizens an opportunity to address this issue. Mr. Mann could areas outside of old Milton could be considered for intensification other than areas in old Milton not designated for intensification by the Ontario government. Thank you very much for considering my email. Carol Gustafson

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:47 PM
To: Bhabha, Fatima
Subject: FW: Your comments please

From: David Schaeffer [<mailto:dschaeffer@dsel.ca>]
Sent: Friday, March 11, 2011 4:14 PM
To: Simpson, David; Liu, Mickey; chris.hamel@aecom.com
Subject: FW: Your comments please

Gentlemen,

Thank you for allowing us to provide comments on the Master Plan.

DSEL was in attendance at PIC No. 2 in Milton on February 22nd. At that time, we were advised that sanitary profile drawings were available, and would be provided upon request. We requested this information on two occasions (February 23rd, March 8th), however, this information has not been provided to-date. As the deadline for comments is March 11th, we are pleased to provide you with our initial "high level" comments on the material presented at PIC No. 2. We will also provide additional comments upon receipt of the supplemental information, and based on any new information that arises from the technical session on March 31.

Wastewater - Milton

1. Sanitary flows from the University Lands in Milton (north of Britannia, west of Tremaine) are shown as draining by gravity to a pump station on Lower Baseline Road. This arrangement would appear to push the development of these lands out to the latter part of the planning horizon. As you know, these lands have the potential to develop much sooner. As such, we suggest that all of the University Lands north of Britannia should be directed to the existing pump station on Louis St. Laurent (LSL), east of Tremaine Road. These lands can generally get there by gravity, however, the southernmost lands will require pumping to the north on an interim basis, until the Lower Base Line station is in place. By using existing LSL infrastructure, the University lands can develop in a timely and cost effective manner.
2. Business Park 2 (BP2) is being serviced by temporary pumping of the sanitary flows via an interim forcemain to the existing HUSP sanitary sewer located east of Thompson Road. These flows will ultimately drain to the south, through the Milton Phase 3 Residential (MP3) lands. This may have been a reasonable solution when the MP3 lands were expected to develop long after the start of development in BP2. As of this writing, development in BP2 has not started, and MP3 is rapidly nearing approval. As such, we question the need for the interim servicing arrangement for BP2, and suggest that it may be more cost effective to install the permanent infrastructure at this time. Intuitively, we would expect the incremental interest charges incurred by constructing the permanent infrastructure earlier would be less than the cost of throw-away infrastructure to service BP2 on a temporary basis. In order to ensure that BP2 is not delayed while waiting for infrastructure, a scaled-down interim pumping arrangement could be proposed, if required, to address the needs of those owners who wish to proceed prior to completion of the ultimate infrastructure. Based on the current development status of these lands, the demand for interim pumping could be very small. The elimination or reduction of throw away costs would contribute to the cost effective development of BP2.
3. By accelerating the MP3 infrastructure identified above to service BP2, an all gravity sewer alternative can be provided on 5th Line. This would eliminate the current BP2 pump station proposed on 5th Line. This would be replaced by a smaller and shallower station located at the eastern limit of the sewershed (proposed in previous versions of Master Plan). This would also allow for shallow gravity sewers instead of the current sewer proposal

which drains contrary to the surface grades, resulting in deeper sewers. This proposal would reduce costs by requiring a smaller station with shallower sewers. Furthermore, the cost of the station could be deferred to the later stages of the buildout of BP2. These funds could be used to accelerate the sewers and pump station in MP3.

4. In MP3, the existing Mid Block Pump Station should be considered as a cost effective method to service portions of the lands east of Sixteen Mile Creek. The station is very deep, and therefore has the ability to accommodate a significant portion of these lands by gravity. These additional flows could be accommodated by using surplus capacity in the system, or if required, by increasing the pump capacity in the station. This would allow development to occur in this area in a timely and cost effective fashion. It would also allow the proposed new station to be down-sized.
5. We are the consultant retained by the Milton Phase 3 landowners to complete the SIS for the lands east of Regional Road 25. As such, we are interested in participating in any discussions regarding the location of the pump station on Britannia Road.

Wastewater - Georgetown

1. Sanitary flows from Georgetown are being conveyed via all new infrastructure starting at Hwy 25 and Lower Baseline Road, and extending up to Georgetown. This arrangement will push development to post 2021, or even later subject to funding and allocation take-up. Alternate service strategies should be considered to allow Georgetown to develop earlier and at less cost. Based on a preliminary review, it appears that Georgetown could be serviced via a shallow sewer on Eighth Line. This flow could then be pumped in the permanent pump station at Steeles and Eighth Line westerly to the existing Phase 1 HUSP sewer. The existing Phase 1 HUSP sewer would then provide the conveyance southerly without the need for additional infrastructure. This arrangement would allow development in Georgetown to proceed in a timely and cost effective fashion.
2. The Master Plan proposes to provide lake-based services to large portions of existing south Georgetown. This will likely increase the cost of servicing by increasing the size, length, and depth of the pipes. Please confirm that the additional costs will not be attributed to development.

Water - Georgetown

1. Consideration should be given to providing water to Georgetown from the Zone 5 reservoir. This will assist with the timely development of Georgetown.

Cost Estimates

1. Please provide your schedule of unit rates that were applied in developing the cost estimates.

We thank you for the opportunity to provide feedback, and look forward to meeting with you at the technical meeting on March 31st.

Yours truly,

David Schaeffer, P.Eng.

DSEL

david schaeffer engineering ltd.

600 Alden Road, Suite 500
Markham, ON L3R 0E7

phone: (905) 475-3080 ext.224

fax: (905) 475-3081

email: dschaeffer@DSEL.ca

From: junior.francis@cn.ca
To: david.simpson@halton.ca; [Hamel, Chris](#)
Subject: Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study
Date: February 21, 2011 1:41:20 PM

David Simpson & Chris Hamel

Thank you for the environmental assessment study. Please keep CN informed of any potential work that may fall CN right-of-way. If you have any question or concerns please feel free to contact me by phone or email.

Junior Francis
Utilities Coordinator
905-669-3184
4 Welding Way (off Administration Rd)
Concord, ON, L4K 1B9

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, February 08, 2011 10:53 AM
To: Bhabha, Fatima; Borowiec, Laura
Subject: FW: Sustainable Halton Water and Wastewater Master Plan Municipal Class EA Study

From: Hamel, Chris
Sent: Monday, February 07, 2011 5:52 PM
To: Campbell, Chris
Subject: FW: Sustainable Halton Water and Wastewater Master Plan Municipal Class EA Study

Chris Hamel, P.Eng.
Associate Vice-President
Community Infrastructure

e: chris.hamel@aecom.com
d: 905.747.7562

AECOM
105 Commerce Valley Drive West, Suite 700, Markham, ON L3T 7W3
t: 905.886.7022 f: 905.886.9494 w: www.aecom.com

From: junior.francis@cn.ca [<mailto:junior.francis@cn.ca>]
Sent: February 7, 2011 5:17 PM
To: david.simpson@halton.ca
Cc: Hamel, Chris
Subject: Sustainable Halton Water and Wastewater Master Plan Municipal Class EA Study

David Simpson & Chris Hamel

Thank you for the EA, please keep CN informed of any potential work that may fall on our right-of-way.

Junior Francis
Utilities Coordinator
905-669-3184
4 Welding Way (off Administration Rd)
Concord, ON, L4K 1B9

Bhabha, Fatima

From: Campbell, Chris
Sent: Wednesday, March 02, 2011 9:23 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Well water to Lake water and Miltongreen blog post

From: Simpson, David
Sent: Wednesday, March 02, 2011 9:17 AM
To: 'MILTONGREEN Citizens group'
Cc: 'chris.hamel@aecom.com'; Best, Colin; Oka, Kiyoshi; Burnett, Heather; Zamojc, Mitch
Subject: RE: Well water to Lake water and Miltongreen blog post

Hi Jim,

Thanks for sharing your blog posting with me and for the kind words you posted about Regional staff about public meetings -- we put a lot of work into both our public meetings and building relationships with the community so I'm glad you found the meeting helpful.

As you know, all of Halton's groundwater and lake-based water systems provide clean, safe drinking water to our residents and businesses, as our water treatment systems continually meet, and often exceed, all provincial regulatory requirements.

Something I wanted to clarify in your blog was the possibility that readers may read the title and think Halton is switching all of Milton over to a lake-based system. Currently approximately 28% of Milton residents are serviced by groundwater. Since the groundwater supply is finite with no increased water takings being proposed, some groundwater areas of Milton are being considered for transfer to lake-based water supply in order to support ongoing intensification and infill in accordance with the Regional Official Plan Amendment 38.

Although we're maximizing the existing groundwater system by optimizing well field infrastructure and by partnering with Milton residents and businesses in effective water efficiency programs, we will need both lake and groundwater based water supplies to meet ongoing growth requirements.

So while currently around 72% of Milton's population is receiving lake-based water, by 2031 this number is expected to increase by 18% (meaning around 90% of Milton would receive lake-based water) in order to meet Milton's future needs, while sustaining and protecting the existing groundwater system.

Once again thanks for sharing your posting with me and for allowing me to clarify that only **some** areas of Milton currently served by well water are being considered to be serviced by lake water in the future.

If you have any other questions, please give me a call at 905-825-6000, ext. 7601.

David

From: MILTONGREEN Citizens group [<mailto:miltongreen.ontario@gmail.com>]
Sent: Monday, February 28, 2011 8:04 PM
To: Simpson, David
Subject: Re: Well water to Lake water and Miltongreen blog post

Thanks David. I look forward to hearing from you. I did post the blog after hearing from Colin Best. I will be happy, if you think it is appropriate, to add your comments.

Regard

Jim Steeves

Chair

Miltongreen

On Mon, Feb 28, 2011 at 6:33 PM, Simpson, David <David.Simpson@halton.ca> wrote:
Hi Jim,

We are currently reviewing your proposed blog comments and will provide feedback in a couple of days.

Thanks for your interest in the Region-wide Master Servicing Plan.

David

David Simpson, P.Eng.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7601

From: MILTONGREEN Citizens group [mailto:miltongreen.ontario@gmail.com]

Sent: Friday, February 25, 2011 12:27 PM

To: Simpson, David; Best, Colin

Cc: chris.hamel@aecom.com

Subject: Well water to Lake water and Miltongreen blog post

Mr. Simpson;

Some of our group were able to attend the latest PICs to learn about the Halton Water and Wastewater master plan. We very much appreciated the open and forthcoming conversations with staff and consultants - this is the way democracy should be run!

I want to put a post in our blog (www.miltongreen.info) to let people know more about this issue: most of us were caught "off guard" when we learned about this at the PIC. There has been nothing about this in our local papers, yet I know people are concerned. I want to be balanced as I appreciate the issue forced upon the region in "Places to Grow" but want everyone to have a say.

I am proposing the attached for the blog and would appreciate your feedback/comments/recommendations. I hope to post by mid-next week.

Regards

HALTON REGION IS CONSIDERING SWITCHING MILTON HOMES SERVED BY WELL WATER TO LAKE WATER

Halton Region recently presented 3 options for water management within the Region and specifically in the Town of Milton. The issue at hand is that due to "Places to Grow" requirements the region has to intensify growth in various areas. Downtown Milton has been so designated.

Well water comes from wells at Walker's line and Kelso. 10% of well water comes from Walkers line which, if kept running, requires several Millions of \$ to upgrade (deteriorating infrastructure). This well will likely be closed. The Kelso well will be upgraded and improved and the desire is to keep ground water as a viable source to as many homes as possible in Milton.

However, due to the intensification, the existing system will be insufficient. Their preferred concept is to initially switch homes in roughly the Timberlea part of town **from well water to Lake water within 5 years** or so. (the area is roughly bound by Nippissing to Derry and Thompson to 16 Mile creek). Dorset Park is next in line to be switched should there be a need.

Information can be found at: <http://www.halton.ca/cms/One.aspx?portalId=8310&pageId=37516#docs> Go to the slide set titled "Slides 1 - 29 Oakville and Burlington Water and Wastewater Servicing Concepts and Preliminary Preferred Alternatives" . Then look at slide # 16. It is hard to see but it shows the Timberlea part and also Dorset Park area (N of Main to Steeles and Ontario to Thompson) as the next in line to be switched should water supply still be insufficient.

Commentary: Many of us are "attached" to our well water.

Water analysis reports indicate that there are only slight differences in quality which are well within recommendations. See these at:

<http://www.halton.ca/cms/one.aspx?portalId=8310&pageId=14097#Reports> Look at the "Milton Annual report for 2009" and, perhaps, compare this to the Oakville report (there is an averages comparison table there too but it doesn't go into as much detail).

Some of us still feel groundwater is safer and cleaner than lake source water which is downstream from such cities as Hamilton, Chicago, Detroit, the Love Canal and so on.. .

Take some time to review the materials to understand where they are coming from and provide balanced feedback by March 11 to either:

Mr. David Simpson at david.simpson@halton.ca ; tel: 905-825-6000 ext. 7601; fax: 905-825-8822

OR

Mr. Chris Hamel at chris.hamel@acem.com; tel: 905-747-7562; fax: 905-886-9494 by March 11, 2011.

Finally: it pays to attend Halton Region's Public Information Centres! They are very informative and the staff are very willing to help the public to understand the posters and the situations at hand.

Bhabha, Fatima

From: Campbell, Chris
Sent: Wednesday, March 30, 2011 2:20 PM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Halton Water and Wastewater Master Plan

From: Jennifer Lawrence [<mailto:jlawrence@hrca.on.ca>]

Sent: Tuesday, March 29, 2011 1:48 PM

To: Simpson, David

Subject: Halton Water and Wastewater Master Plan

Hi David,

Here are some of the questions that have arisen out of our review of the PIC information. I would note that we have not yet received the figures that were going to be forwarded to us.

1. Has the Region looked at how the recommended solutions may impact the natural environment, including natural hazards?
2. For crossings of Bronte, Sixteen and Fourteen Mile Creek – Are there new crossings being proposed in addition to the ones that are currently under construction and/or going through a current EA?
3. New wastewater servicing Georgetown but located in Milton – What is being considered in the vicinity of Hwy 401 and the Sixteen Mile Creek valley?
4. Where is new Trafalgar and Britannia Rd SPS being considered? Any history? Has it been located outside of the regulated area?
5. What is involved in the optimization of the WPP plants in Oakville?
6. Wastewater - does North Oakville Option include forcemain across Core Area #3? If not, how will flows get across Sixteen Mile Creek?

The following are comments, rather than questions, for your consideration. I will put all of our comments into a letter after the meeting.

- While staff recognize that the level of detail provided in the submitted handouts are general in nature and that impacts to the natural environment will be assessed at the individual Environmental Assessment (EA) phase, there remains concern surrounding the proposed groundwater well expansion and impacts associated with the wetlands in the adjacent areas. This is especially important given the high number of wetlands located within the northern portion of the Region. Please be aware that this aspect will need to be assessed as part of the EA report.
- In addition to the above wetland impacts, staff are concerned with potential impacts to surrounding natural heritage system (NHS) that might arise from the implementation of new wastewater pipelines. Consideration of the NHS will need to be given during preparation of the EA. In addition, staff recommend that the Sustainable Halton NHS as well as NHSs developed as per subwatershed studies be reviewed to ensure that these systems are being protected.
- Staff are concerned with the general recommendation that in the South Halton system all pumping stations will be replaced with a deep gravity sewer system. Given that the Pumping Station Master Plan is still in preparation, has not yet been approved by the review agencies and it is staff's understanding that not all pumping stations will be removed unless a need is demonstrated, therefore this statement is premature at this time. Staff suggests that the wording be changed to reflect this uncertainty such as pumping stations will be assessed and when necessary replaced with a deep gravity sewer system in areas where it is required. There is also a discussion of building two new additional pumping stations in South Halton, however this also needs to be determined through that Master Plan.

- Staff are concerned that a new crossing of the Sixteen Mile Creek may be required. The impacts on the surrounding NHS from this crossing need to be assessed as well as more suitable locations before determining if this crossing is needed. Staff anticipate that this will be completed through a more formal EA process.
- Staff request that attention be given to incorporating any new infrastructure within existing right of ways (RoW) so as to limit disturbance to the NHS. In addition, we question if consideration be given to increasing the sizing of proposed pipes and current pipes? This may be beneficial along routes that are located in sensitive features and should be considered.
- The Region is encouraged to voluntarily increase their level of sewage treatment to the highest standards possible; the Region is encouraged to work towards sewage effluent quality that if possible exceeds provincial water quality objectives in order to work towards healthier surface water quality which will lower nuisance algae growth and will benefit fish and other aquatic communities.
- The Region is also encouraged to consider incorporating technology to filter pharmaceuticals out of sewage effluent at all of their existing and proposed WWTP's.
- The Region is encouraged to plan for comprehensive hydrogeological surveys to be completed early in the EA stage for all proposed tunneling projects. The interception and need for dewatering of significant amounts of groundwater should be investigated thoroughly in the planning stages of a project as hydrogeological conditions should contribute to the selection of preferred alternative route alignments.

Jennifer

Jennifer Lawrence, MCIP, RPP
Manager, Environmental Planning
Conservation Halton
Ph: 905-336-1158 ex. 266
Fax: 905-336-6684
www.conservationhalton.ca

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Wednesday, April 13, 2011 9:38 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Halton Water and Wastewater Master Plan Municipal Class EA

From: Pawlus, Jacek [<mailto:Jacek.Pawlus@halton.ca>]
Sent: Wednesday, April 13, 2011 9:37 AM
To: Teresa.Wagner@ontario.ca
Cc: Campbell, Chris; Hamel, Chris; Simpson, David
Subject: RE: Halton Water and Wastewater Master Plan Municipal Class EA

Good morning Teresa,

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan. Our display boards from PIC#2 can be found on our website (under the **Public Information Centres (PICs) #2** heading) at the following address:
<http://www.halton.ca/cms/One.aspx?portalId=8310&pageId=37516#pics2>.

We have received information/comments from various residents and stakeholders from PIC#2. The next steps of the Mater Plan are as follows:

- 1) compile and respond to all comments and questions
- 2) finalize the servicing strategies
- 3) file the Master Plan documentation (currently scheduled for June 2011)
- 4) the Master Plan will be on public record for a 45 day review period
- 5) Schedule A, A+ and Schedule B projects not requiring further study would move forward to implementation
- 6) Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies.

You can provide your comments via email or you can use the formal comment sheet that is also on our website (as per the above link).

Please feel free to contact me if you have any further questions.

Thank you

Jacek Pawlus

From: Wagner, Teresa (MTC) [<mailto:Teresa.Wagner@ontario.ca>]
Sent: Tuesday, April 12, 2011 4:46 PM
To: chris.hamel@aecom.com
Cc: Simpson, David
Subject: Halton Water and Wastewater Master Plan Municipal Class EA

Good afternoon, Mr. Hamel.

As part of the Environmental Assessment Act, the Ministry of Tourism and Culture (MTC) has an interest in the conservation of cultural heritage resources including archaeological resources, built heritage resources, and cultural heritage landscapes.

I have located a Notice of PIC# 2 for the above-mentioned project.

Can you please update me as to the status of this project? Also, would it be possible to acquire a copy of the display boards presented at the Public Meeting to allow MTC to advise on whether any cultural heritage assessments would be recommended as part of this Environmental Assessment project?

Teresa B. Wagner

A/Heritage Planner
Ministry of Tourism and Culture
Programs & Services Branch
401 Bay St. Suite 1700
Toronto, Ontario
M7A 0A7
Tel.: 416-314-7147
Fax: 416-212-1802
email: Teresa.Wagner@ontario.ca



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Thank you

Ministry of Tourism and Culture

Criteria for Determining Archaeological Potential

A Checklist for the Non-Specialist

Feature of Archaeological Potential	Yes	No	Unknown
1. Known archaeological sites within 300 m of property			

Physical Features	Yes	No	Unknown
2. Water on or near the property If yes, what kind of water? a) Primary water source (lake, river, large creek, etc) within 300 m, OR 50 m for properties in northern Ontario and Canadian Shield terrain* b) Secondary water source (stream, spring, marsh, swamp, etc) within 300 m, OR 50 m for properties in northern Ontario and Canadian Shield terrain* c) Past water source (beach ridge, river bed, relic creek, ancient shoreline, etc) within 300 m, OR 150 m for properties in northern Ontario and Canadian Shield terrain*			
3. Elevated topography on property (knolls, drumlins, eskers, plateaus, etc)			
4. Pockets of sandy soil in a clay or rocky area on property			
5. Distinctive land formations on property (mounds, caverns, waterfalls, peninsulas, etc)			

Cultural Features	Yes	No	Unknown
6. Known burial site or cemetery on or adjacent to the property (cemetery is registered with the Cemeteries Regulation Unit)			
7. Food or scarce resource harvest areas on property (traditional fishing locations, agricultural/berry extraction areas, etc)			
8. Indications of early Euro-Canadian settlement within 300 m of property (monuments, cemeteries, structures, etc)			
9. Early historic transportation routes within 100 m of property (historic road, trail, portage, rail corridor, etc)			

Property-specific Information	Yes	No	Unknown
10. Property is designated and/or listed under the <i>Ontario Heritage Act</i> (municipal register and lands described in Reg. 875 of the <i>Ontario Heritage Act</i>)			
11. Local knowledge of archaeological potential of property (from aboriginal communities, heritage organisations, municipal heritage committees, etc)			
12. Recent ground disturbance [†] (post-1960, extensive and deep land alterations)			

The entire property should be screened for archaeological potential, not only the footprint where work is proposed.

*Northern Ontario is defined as Manitoulin Island, the Districts of Muskoka, Haliburton and Nipissing, and areas to the north. The Canadian Shield is defined as the area of Ontario underlain by the Precambrian Shield.

[†] Archaeological potential can be determined not to be present for either the entire property or a part(s) of it when the area under consideration has been subject to extensive and deep land alterations that have severely damaged the integrity of any archaeological resources. This is commonly referred to as 'disturbed' or 'disturbance', and may include: quarrying, major landscaping involving grading below topsoil, building footprints, sewage and infrastructure development. Activities such as agricultural cultivation, gardening, minor grading and landscaping do not necessarily affect archaeological potential.

Scoring the results:

If **Yes** to any of 1, 2a-c, 6 or 11

archaeological potential is **determined** – assessment is required

If **Yes** to two or more of 3 to 5 or 7-10

archaeological potential is **determined** – assessment is required

If **Yes** to 12 or **No** to 1 to 10

low archaeological potential is **determined** – assessment may or may not be required (depending on answers from 1-11)

If 3 or more **Unknown**

more research is required (**See note below for more information**)

Note: If archaeological potential features are unknown, a professional archaeologist licensed under the *Ontario Heritage Act* should be retained to carry out a minimum Stage 1 archaeological assessment report confirming potential or low potential. All reports are to be in compliance with provincial archaeological assessment standards and guidelines.

Screening for Impacts to Built Heritage and Cultural Heritage Landscapes

This checklist is intended to help proponents determine whether their project could affect known or potential cultural heritage resources. The completed checklist should be returned to the appropriate Heritage Planner or Heritage Advisor at the Ministry of Tourism and Culture.

Step 1 – Screening for Recognized Cultural Heritage Value

YES	NO	Unknown	
			<ol style="list-style-type: none"> 1. Is the subject property designated or adjacent* to a property designated under the <i>Ontario Heritage Act</i>? 2. Is the subject property listed on the municipal heritage register or a provincial register/list? (e.g. Ontario Heritage Bridge List) 3. Is the subject property within or adjacent to a Heritage Conservation District? 4. Does the subject property have an Ontario Heritage Trust easement or is it adjacent to such a property? 5. Is there a provincial or federal plaque on or near the subject property? 6. Is the subject property a National Historic Site? 7. Is the subject property recognized or valued by an Aboriginal community?

Step 2 – Screening Potential Resources

YES	NO	Unknown	
			<p>Built heritage resources</p> <ol style="list-style-type: none"> 1. Does the subject property or an adjacent property contain any buildings or structures over forty years old[†] that are: Residential structures (e.g. house, apartment building, shanty or trap line shelter) Farm buildings (e.g. barns, outbuildings, silos, windmills) Industrial, commercial or institutional buildings (e.g. a factory, school, etc.) Engineering works (e.g. bridges, water or communications towers, roads, water/sewer systems, dams, earthworks, etc.) Monuments or Landmark Features (e.g. cairns, statues, obelisks, fountains, reflecting pools, retaining walls, boundary or claim markers, etc.) 2. Is the subject property or an adjacent property associated with a known architect or builder? 3. Is the subject property or an adjacent property associated with a person or event of historic interest? 4. When the municipal heritage planner was contacted regarding potential cultural heritage value of the subject property, did they express interest or concern?
			<p>Cultural heritage landscapes</p> <ol style="list-style-type: none"> 5. Does the subject property contain landscape features such as: Burial sites and/or cemeteries Parks or gardens Quarries, mining, industrial or farming operations Canals Prominent natural features that could have special value to people (such as waterfalls, rocky outcrops, large specimen trees, caves, etc.) Evidence of other human-made alterations to the natural landscape (such as trails, boundary or way-finding markers, mounds, earthworks, cultivation, non-native species, etc.) 6. Is the subject property within a Canadian Heritage River watershed? 7. Is the subject property near the Rideau Canal Corridor UNESCO World Heritage Site? 8. Is there any evidence from documentary sources (e.g., local histories, a local recognition program, research studies, previous heritage impact assessment reports, etc.) or local knowledge or Aboriginal oral history, associating the subject property/ area with historic events, activities or persons?

Note:

If the answer is "yes" to any question in Step 1, proceed to Step 3.

The following resources can assist in answering questions in Step 1:

Municipal Clerk or Planning Department – Information on properties designated under the Ontario Heritage Act (individual properties or Heritage Conservation Districts) and properties listed on a Municipal Heritage register.

Ontario Heritage Trust – Contact the OHT directly regarding easement properties. A list of OHT plaques can be found on the website: [Ontario Heritage Trust](#)

Parks Canada – A list of National Historic Sites can be found on the website: [Parks Canada](#)

Ministry of Tourism and Culture – The Ontario Heritage Properties Database includes close to 8000 identified heritage properties. Note while this database is a valuable resource, it has not been updated since 2005, and therefore is not comprehensive or exhaustive. [Ontario Heritage Properties Database](#)

Local or Provincial archives

Local heritage organizations, such as the municipal heritage committee, historical society, local branch of the Architectural Conservancy of Ontario, etc.

Consideration should also be given to obtaining oral evidence of CHRs. For example, in many Aboriginal communities, an important means of maintaining knowledge of cultural heritage resources is through oral tradition.

If the answer is "yes" to any question in Step 2, an evaluation of cultural heritage value is required. If cultural heritage resources are identified, proceed to Step 3.

If the answer to any question in Step 1 or to questions 2-4, 6-8 in Step 2, is “unknown”, further research is required.

If the answer is "yes" to any of the questions in Step 3, a heritage impact assessment is required.

If uncertainty exists at any point, the services of a qualified person should be retained to assist in completing this checklist. All cultural heritage evaluation reports and heritage impact assessment reports must be prepared by a qualified person. Qualified persons means individuals (professional engineers, architects, archaeologists, etc.) having relevant, recent experience in the identification and conservation of cultural heritage resources. Appropriate evaluation involves gathering and recording information about the property sufficient to understand and substantiate its heritage value; determining cultural heritage value or interest based on the advice of qualified persons and with appropriate community input. If the property meets the criteria in Ontario Regulation 9/06 under the Ontario Heritage Act, it is a cultural heritage resource.

† The 40 year old threshold is an indicator of potential when conducting a preliminary survey for identification of cultural heritage resources. While the presence of a built feature that is 40 or more years old does not automatically signify cultural heritage value, it does make it more likely that the property could have cultural heritage value or interest. Similarly, if all the built features on a property are less than 40 years old, this does not automatically mean the property has no cultural heritage value. Note that age is not a criterion for designation under the *Ontario Heritage Act*.

Step 3 – Screening for Potential Impacts

		Step 3 – Screening for Potential Impacts
YES	NO	<p>Will the proposed undertaking/project involve or result in any of the following potential impacts to the subject property or an adjacent* property?</p> <p>Destruction, removal or relocation of any, or part of any, heritage attribute or feature.</p> <p>Alteration (which means a change in any manner and includes restoration, renovation, repair or disturbance).</p> <p>Shadows created that alter the appearance of a heritage attribute or change the exposure or visibility of a natural feature or plantings, such as a garden.</p> <p>Isolation of a heritage attribute from its surrounding environment, context or a significant relationship.</p> <p>Direct or indirect obstruction of significant views or vistas from, within, or to a built or natural heritage feature.</p> <p>A change in land use such as rezoning a battlefield from open space to residential use, allowing new development or site alteration to fill in the formerly open spaces.</p> <p>Soil disturbance such as a change in grade, or an alteration of the drainage pattern, or excavation, etc.</p>

* For the purposes of evaluating potential impacts of development and site alteration “adjacent” means: contiguous properties as well as properties that are separated from a heritage property by narrow strip of land used as a public or private road, highway, street, lane, trail, right-of way, walkway, green space, park, and/or easement or as otherwise defined in the municipal official plan.

Bhabha, Fatima

From: Campbell, Chris
Sent: Friday, May 06, 2011 8:40 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: Halton Water and Wastewater Master Plan Municipal Class EA
Attachments: BuiltHeritage-CHL-Checklist-MTC-Nov2010.pdf; Archaeological Potential Checklist MTC February 2011.pdf

From: Wagner, Teresa (MTC) [<mailto:Teresa.Wagner@ontario.ca>]
Sent: Thursday, May 05, 2011 5:18 PM
To: Hamel, Chris
Cc: Pawlus, Jacek; Campbell, Chris; David Simpson
Subject: RE: Halton Water and Wastewater Master Plan Municipal Class EA

Dear Mr. Hamel,

On February 7th, 2011 the Ministry of Tourism and Culture received a notice of PIC #2 for the project mentioned above. As part of the Class Environmental Assessment process, the Ministry of Tourism and Culture (MTC) has an interest in the conservation of cultural heritage resources including archaeological resources, built heritage resources and cultural heritage landscapes.

The purpose of the Ontario Environmental Assessment Act is to provide for the protection, conservation and wise management of Ontario's environment. The Act defines environment in a broad sense that includes natural, social, cultural, economic and built environments. This broad definition of the environment makes the assessment of the impact of the undertaking on cultural heritage resources part of the standard environmental assessment process in Ontario. Environmental assessments made under the EA Act therefore assess and address the impact of the undertaking on cultural heritage resources.

Archaeology

Attached is MTC's Checklist for Determining Archaeological Potential, which identifies characteristics of the property that indicate whether archaeological resources might be present and/or impacted. Please return the completed checklist to me in order to determine whether an archaeological assessment by an archaeologist licensed under the Ontario Heritage Act will be recommended for this project.

Built Heritage and Cultural Heritage Landscape

In addition, in order to determine the existing cultural conditions, known and potential built heritage resources and cultural heritage landscapes should be identified. It is suggested that you contact the City Clerk to determine if there are any properties that have been listed or designated under the *Ontario Heritage Act*. I have also attached our Ministry's standard checklist for identifying potential heritage resources within the study area. When completing this checklist, you should contact the municipal heritage committee or any relevant community heritage organizations.

Please return the completed checklist to me, with any additional relevant information, including photographs and site plans, so that MTC could further advise on any cultural heritage assessment work that will be necessary.

Please do not hesitate to contact me if you have any questions.

Best regards,

Teresa Wagner
A/Heritage Planner
416-314-7147
Teresa.Wagner@ontario.ca

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, February 28, 2011 10:01 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: PIC #2_ Halton Hills...

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Tuesday, February 08, 2011 12:31 PM
To: Patricia Coca
Cc: Pawlus, Jacek; Campbell, Chris
Subject: RE: PIC #2_ Halton Hills...

Hi Patricia,

I have forward some preliminary slides regarding water and wastewater servicing to the 2031 forecast in a subsequent email. More information will be available at the upcoming PICs.

I will ask Jacek Pawlus to add your name to the mailing list (under Utilities section).

Please let me know if you have any questions.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



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Thank you

From: Patricia Coca [<mailto:pcoca@haltonhillshydro.com>]
Sent: Friday, February 04, 2011 4:48 PM

To: Simpson, David
Subject: PIC #2_ Halton Hills...

David,

A college gave me the Notice Of Public Information Centre #2 for Sustainable Halton Water and Wastewater Master Plan
...

I am updating Halton Hills Hydro's load forecast so that we can ensure that we have sufficient supply capacity and circuitry to where the new development is planned in a timely manner. I also understand that the time of new development is dependent on water allocation. Most of the work that we have done to date is based on the Town of Halton Hills Official Plan including amendments up to # 10.

It is possible to read the preliminaries preferred alternative that relates to Halton Hills before the meeting on February 24?

Are they available online?

Can you also add my name to the study mailing list?

Thanks in advance for your assistance,

Patricia Coca, P. Eng.
Distribution Engineer

Halton Hills Hydro Engineering Dept.
43 Alice St.
Acton, ON
L7J 2A9

Office : 519-853-3700 Ext. 228
Fax : 519-853-5168
Mobile : (905) 805-2929
pcoca@haltonhillshydro.com

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, March 07, 2011 10:49 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Lake Water for Timberlea

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Thursday, March 03, 2011 7:18 PM
To: Campbell, Chris
Cc: Hamel, Chris; Pawlus, Jacek
Subject: FW: Lake Water for Timberlea

FYI

Sent: Thursday, March 03, 2011 6:34 PM
To: Simpson, David
Subject: Lake Water for Timberlea

I am all in favour of lake water for Timberlea. For almost 30 years I have had to deal with a water softener and appliances that get destroyed by the minerals in the hard water. This is one household in agreement with the move.

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, March 07, 2011 10:48 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Switch to Lake Water - Milton

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Thursday, March 03, 2011 7:17 PM
To: Pawlus, Jacek
Cc: Campbell, Chris; Hamel, Chris; Pallo, Alex
Subject: FW: Switch to Lake Water - Milton

Hi Jacek,

Can you please ask Alex to update the master plan mailing list? Also, please direct Richard to the Master Plan Study webpage which shows the proposed plans for Milton groundwater and lake based servicing areas.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



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Thank you

From: rlaughton@sympatico.ca [<mailto:rlaughton@sympatico.ca>] **On Behalf Of** Richard Laughton
Sent: Thursday, March 03, 2011 3:59 PM
To: Simpson, David
Subject: Switch to Lake Water - Milton

David:

Can you please add me to your e-mail list for any notices or reports on proposed changes to the use of Kelso or Walker's Line wells for the old part of Milton.

I look after a number of residents in those areas.

Thanks, and I look forward to your reports.

Best Regards,

Richard

Richard V. Laughton, B.Sc., M.Eng., C.Chem.
President, LMC CENSOL Group
CENSOL Inc. - *Comprehensive Environmental Solutions*
Milton, Ontario CANADA L9T 4N8
[Google Satellite Locator](#)
Web: www.censol.ca
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Telnic: [censol.tel](tel:censol.tel)
Cellular: 416-219-6950
Telefax: 905-878-8775

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, February 22, 2011 8:32 AM
To: Bhabha, Fatima
Cc: Borowiec, Laura
Subject: FW: February 17th PIC Meeting # 2 For The Sustainable Halton Water & Wastewater Master Plan - MCEA Study

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Saturday, February 19, 2011 1:22 PM
To: Pawlus, Jacek
Cc: Ron; Campbell, Chris; Hamel, Chris
Subject: RE: February 17th PIC Meeting # 2 For The Sustainable Halton Water & Wastewater Master Plan - MCEA Study

Hi Jacek,

Could you acquire an electronic version of the Water and Wastewater Master Plan comments sheet from the Burlington PIC and forward to Mr. Young. Also, please ensure that he gets added to the mailing list.

Thanks,

David

David Simpson, P.Eng.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7601

From: Ron [<mailto:ronyoung@krapangroup.com>]
Sent: Friday, February 18, 2011 10:38 AM
To: Simpson, David
Cc: Chris Hamel
Subject: Re: February 17th PIC Meeting # 2 For The Sustainable Halton Water & Wastewater Master Plan - MCEA Study

David,

I attended the PIC meeting at Assumption High School last night and found it very informative. However, I forgot to fill out the Comment Sheet. Regardless, it would be appreciated if you could add me to your Project Mailing List and my contact information is noted below.

I thank you in advance for your cooperation on this matter.

Regards,

Ron Young

Mailing Address: Krpan Group, 2500 Appleby Line, Suite 200, Burlington, ON L7L 0A2

Tel : 905-335-5204, Ext. 25

Fax : 905-335-8469

E-mail : ronyoung@krpangroup.com

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Thank you

From:
To: david.simpson@halton.ca
Cc: [Hamel, Chris](#)
Subject: Water Source for Timberlea (Milton)
Date: March 6, 2011 3:21:04 PM

As a resident of the Timberlea area in Milton I would like to go on the record as being opposed to changing our water source from the Kelso wells to Lake Ontario. We are very pleased with the taste and content of the existing water from Kelso and have been for over 30 years. In fact the water was one of the reasons we chose Milton as a place to live.

Please keep us advised of any proposed changes.

Thank you.

From: [Simpson, David](#)
To: [Pawlus, Jacek](#)
Cc: [Hamel, Chris](#);
Subject: RE: Location of Halton Water / Wastewater Master Plan?
Date: March 6, 2011 8:30:27 PM

Jacek,

Can you please forward a link to the Master Plan webpage?

Thanks,

David

David Simpson, P.Eng.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

Tel: 905-825-6000 ext. 7601

Sent: Sunday, March 06, 2011 5:26 PM
To: Simpson, David; chris.hamel@aecom.com
Subject: Location of Halton Water / Wastewater Master Plan?

It was a pleasure meeting both of you gentlemen on Wed Feb 16 2011 at the Oakville presentation of Halton's Water / Wastewater Master Plan which outlined the strategy to and including 2031.

That evening I was informed that the Master Plan was to be loaded onto the Halton web site, almost as we spoke however I have searched www.Halton.ca and cannot find any information related to this plan.

Can you please direct me to this information by emailing me a link. If the information is not currently there, when might you expect it to be available and how may I attain hard copies of your presentation material.

With thanks

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From: [Diane Sprules](#)
To: david.simpson@halton.ca; [Hamel, Chris](#); [Gord Krantz](#); [Colin Best](#); [Tony Lambert](#); [Sharon Barkley](#); [Rick Malboeuf](#); [Gary Carr](#); miltongreen.ontario@gmail.com
Subject: Timberlea residents may get lake-based water
Date: March 4, 2011 12:42:31 PM

Many of these residents are happy that they do not have FLUORIDE added to their water supply. When they get the lake based water will they be happy to know that they are getting the hazardous waste hydrofluorosilicic acid (HFSA)? And the increased incidence of medical issues that go along with this - lower thyroid, and that oh so benign cosmetic only dental fluorosis, that the dentists love to fix for thousands of dollars a mouth? More brittle bones and teeth?

<http://www.insidehalton.com/community/milton/article/962018>

--

To: david.simpson@halton.ca
Cc: [Hamel, Chris](#)
Subject: water for milton
Date: March 7, 2011 10:24:09 AM

hi David and Chris

I was very disappointed to read in the Canadian Champion Thursday March 3rd, 2011 that older parts of Milton would be switching to the Lake Ontario water.

As a long time resident of Milton (since 1979) we moved to Milton for the fresh air and cleaner water knowing that our water was from the escarpment area, no fluoride and lots of conservation areas around us. We were happy to bring up two children in this fresh, farmlike environment. Although at that time we were the "new" people in town, we felt great attachment to this town and the environment.

Over the years the traffic has increased, the population has increased and it is not the same as it was. We have chosen to stay in Milton in the older parts of town to enjoy the original feel and amenities that we are accustomed to.

Our children have both grown up in town and now are home owners in this town and chose to stay here due to the small town feel, fresh water and conservation areas. They purposefully bought houses in the older parts of town knowing that they would not be exposed to "lake Ontario" water, as did we. The house we lived in before this one was on the edge of the old houses (Thompson and Steeles area) and when we bought the Town said no development would happen across the road as there was not enough water to sustain new housing so we felt confident knowing we would have open fields across from us, well little did we know the story would change and new housing and retail etc came crashing in. so much so that we had to move out of the area, it was too noisy, too busy and bright lights all night long from the parking lot. We moved into an area that has less retail etc in the old part of town.

As long time residents we were promised by the Town etc that the new "big pipe" water would stay on the perimeter of the old areas and just be used to bring water to the new houses.

We were saddened to think that again the original promises have been broken. I understand the need to be careful with the water resources, I am fully aware of the limits on our natural resources and choose to conserve both inside the house and outside, we have rain barrels and choose not to water the lawn etc to ensure we do our part.

I currently work in Oakville and although I know the water has been treated and is drinkable the taste is awful. I take water from home to work with me as the taste is very different.

Speaking on behalf of three homeowners in Milton in the old parts of Town, including the Timberlea area, we DO NOT want Lake Ontario water .

Please stick to the original promise to homeowners in Milton and leave our water the way it is
thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, March 21, 2011 9:15 AM
To: Bhabha, Fatima
Subject: FW: Water servicing in the Town of Milton

From: Oka, Kiyoshi
Sent: Thursday, March 17, 2011 5:55 PM

Cc: Watt, Mabel; Simons, Lynne; Zamojc, Mitch; Simpson, David; Andrews, Dave; Borchetta, Nancy; Dal Bello, Nancy
Subject: Water servicing in the Town of Milton

Your email regarding future water servicing in the Town of Milton was forwarded to my attention.

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Servicing Plan Study and we appreciate the comments you have provided as part of the second round of public consultation.

All possible alternatives are currently being considered as part of the water servicing plan. Based on this review, a preliminary strategy has been presented to the public for comment. Approximately 28% of Milton residents are currently serviced by groundwater. Since the groundwater supply is finite with no increased water takings being proposed, some groundwater areas of Milton are being considered for transfer to lake-based water supply in order to accommodate ongoing intensification and infill development supported by policies in the Regional Official Plan.

Work is currently underway to maximize the capacity of the existing groundwater system by optimizing well field infrastructure and by partnering with Milton residents and businesses in effective water efficiency programs. Despite these initiatives, both lake and groundwater based water supplies will be required to meet ongoing growth requirements. There are no plans to mix or blend the groundwater based water with the lake based water in our future servicing strategy. The growth projections indicate that the percentage of Milton's population receiving lake-based water will need to increase from 72% to 90% by 2031 in order to meet Milton's future needs, while sustaining and protecting the existing groundwater system.

Most of Milton's industrial, commercial and institutional (ICI) areas are currently serviced by lake water. As part of the servicing strategy, any remaining groundwater serviced ICI areas in Milton will be reviewed for possible conversion to lake based water servicing first before any consideration is given to switching over residential areas. For example, the proposed conversion of downtown intensification area from Ontario Street to Thompson road on both sides of Main St. and Nipissing road (Nipissing commercial triangle) to lake based servicing will not affect the groundwater supply to current residents.

In response to your question regarding the Milton Quarry, the aggregate operation does not utilize groundwater from the same aquifer that feeds our Regional well based system and, as such, does not constrain our groundwater servicing capacity.

Lastly, we can assure you that all of Halton's groundwater and lake-based water systems provide equally safe and high quality drinking water to our residents and businesses. Halton's water treatment systems, both well based and lake based, continually meet, and often exceed, all provincial regulatory requirements. We will ensure that this standard of high quality water is maintained for any areas switched from groundwater to lake-based water in the future.

We are currently reviewing all comments received on the preliminary strategy and we will be responding to all issues raised by the public through the master planning process

Regards,

Kiyoshi Oka, P.Eng.,
Director, Water Services
Public Works
The Regional Municipality of Halton
(T) 905-825-6000, ext. 7602

From: <executiveservices@milton.ca>
Date: 14 March, 2011 10:45:04 AM EDT

Subject: RE: Response to Halton Region re Switching some Milton Homes from Well to Lake Water - [milton.ca](mailto:executiveservices@milton.ca) executiveservices Inquiry

Thank you for your email dated March 11, 2011.

By copy of this acknowledgement, your email has been forwarded to Chair Carr at the Region of Halton as well as Milton Town Council for their review.

Executive Services on behalf of Mayor Gord Krantz

-----Original Message-----

Sent: Friday, March 11, 2011 3:46 PM
To: Exec - executiveservices@milton.ca
Subject: Response to Halton Region re Switching some Milton Homes from Well to Lake Water - [milton.ca](mailto:executiveservices@milton.ca) executiveservices Inquiry

Town of Milton (<http://www.milton.ca>) website inquiry:
To: executiveservices@milton.ca
cc:

Comments submitted: To whom it may concern:

I have just learned that the Region is considering switching a portion of residential, pre-development Milton from well water to Lake Ontario water, and that the deadline for responses is today, March 11, 2011. I am writing to express my extreme opposition to this possibility. I have lived in Milton for the past 27 years, and its wonderful water from artesian wells in the escarpment is one of the real benefits I have greatly enjoyed.

As this recent wave of development in Milton was getting underway, the introduction of Lake Ontario water to meet the needs of the new development had to be addressed. At one point, the idea of "blending well and lake water" was under consideration.

The Region funded a study to determine the results if this idea were implemented. The study found that Lake water would cause sediments deposited over time by the well water flowing through the pipes of Milton's water system to re-enter the water delivered to all homes, old and new. This would have resulted in very unacceptable "murky" water for everyone in Milton. The "blending" idea was abandoned and a separate system with holding tank was built for the new residential areas. I strongly urge you to fully review this study before the final decision.

If some Milton homes on the east side of the older community were to start receiving Lake Ontario water, all the infrastructure (pipes, pumping equipment, et. al.) would have to be replaced to avoid the

unacceptable results determined by the previous study. There will be a high cost to the switch, possibly comparable to any infrastructure upgrading to existing stations, etc. that would be required to maintain the well water for all of the older parts of Milton.

I understand that the switch is being considered as a way to increase water supply to an intensified downtown core in Milton. Before taking this well water away from residents who very much want to keep it, please look at the possibility of providing Lake Ontario water to the industrial areas of north Milton that presently use well water. For example, it is my understanding that the extensive quarry operation currently draws a great deal of well water. This operation could use Lake water instead, and this switch would provide well water for many additional downtown core residents, while allowing the older parts of Milton to also continue to enjoy the well water.

Just as developers who were about to benefit from the growth were expected to fund the pipe bringing Lake Ontario water to Milton, businesses that benefit from their location in Milton must also be required to pay their fair share of infrastructure costs associated with growth. We are all taxpayers, residents and businesses alike. Our tax dollars must be spent in a way that addresses the needs of everyone equitably.

Therefore, I strongly urge the Region to consider alternatives that would maintain the water that residents of the older parts of Milton have valued for generations. Thank you.

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:41 PM
To: Bhabha, Fatima
Subject: FW: water sources for Milton

Sent: Thursday, March 03, 2011 9:19 PM
To: Simpson, David
Subject: water sources for Milton

Thank you for the chance to give my opinion .
For as long as possible we need to keep the ground -water sourced water even if it means expanding the wells .
We know what the tap water tastes and smells like in other communities which drink the lake water !!
As time goes on the lake water will be more polluted and need more treatment .

The newer residents have likely been used to the lake-water source so do not realize what a privilege we long-time residents have.

All homes will need a water-purification filter to eliminate some of that bad taste...(which can be fairly costly) or rely on bottled water for drinking .

I write on behalf of my son Andrew and daughter Elizabeth and myself ... speaking for 3 homes .

Thank you for your help .

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:42 PM
To: Bhabha, Fatima
Subject: FW: Feedback: lake water for Timberlea (Milton Champion March 3rd)

Sent: Sunday, March 06, 2011 12:36 PM
To: Simpson, David
Subject: Feedback: lake water for Timberlea (Milton Champion March 3rd)

David Simpson
Halton water planning and services department:

It is depressing each time one hears from the "planning" people of Milton/Halton.

Milton, being situated at the edge of the escarpment had, as its water supply, the Niagara escarpment aquifer, which is a precious and desirable source of water.

I spend a lot of time on the escarpment, and am always grateful that my water comes from this amazing aquifer. Recently, there was a huge outcry over the proposed quarry on the western border of Halton, and its potential impact on the aquifer.

We also heard of the outcry over the bottled water sourced in the Aberfoyle area and its potential effects on the aquifer.

Now you tell us that we will no longer have access to that precious resource!

Will distribution eventual dwindle down to the town hall?

We moved to Milton (Timberlea) in the late '90's, and paid a premium for buying into a community whose growth was limited due to water supplies.

One of the perks of our decision was the water, that we could drink, and enjoy from the faucet. You cannot understand how important this was to people coming from a bottled-water-only community.

This previous community sourced its water from an open water body (big pipe?).

Any open water body is far more vulnerable to external effects from deliberate (terrorist) attacks, to careless industrial spills, to poor planning from other communities. (i.e.. Toronto's frequent beach closures due to drain overflows.)

A few years back when the "Big Pipe" was approved, we were assured that existing residents would retain the escarpment sourced water.

Now here we are, hearing that it is being "planned" to put us on the big pipe.

Please look at alternatives.

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Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:44 PM
To: Bhabha, Fatima
Subject: FW: Town water

-----Original Message-----

Sent: Monday, March 07, 2011 1:09 PM
To: Simpson, David
Subject: Town water

Hi David,

I am emailing with regards to the announcement in the canadian champion this past thursday regarding the potential switch to town water.

Over the past few years my family and I have had to fight off numerous issues relating to where we live and the potential of development, risking change to protect the little escarpment that is left as well as the amazing in-town history that we live on. Letters get sent out about town meetings so the neighbourhood attends and fights off "doers" who feel it would be "better" if things took place. Yet a question is asked where they live and they say out of town. These meetings take place and a overall consensus is drawn then I get another letter stating there wasn't enough support so they are going ahead anyways yet there was a unanimous decision against it. I'm not quite sure how "they" can tell me that its better if things go another way at MY HOME when they don't live there and see the daily occurrences in Milton and how they affect my area where I live. Add water changes to the list.

I have seen Mayor Krantz run this town and I have supported him over the years and will continue to do so because anyone else who would take the helm would not understand the intricate workings of such a unique town however things are happening that are not an improvement for Milton.

I have grown up in Milton and have since recently purchased a house. I eagerly decided to buy a home in the older part of town due to numerous pluses however the lot sizes and neighbourhoods the water were huge assets. I have always really enjoyed Milton however I truly believe since there was a switch about 12 yrs ago when parts of the town switched to lake water that things around town started to change. I have enjoyed parts of the development of Milton and the expansion but I think that it has made it difficult to still enjoy the small things about town.

I bought my house where I did because of the quality of water from the area. I did not buy in the new part because of that. I wanted to be a part of the small town atmosphere as well as have great water that isn't pumped full of chemicals and chlorine to clean it. I truly feel that if dorset and timberlea as well as other areas switch to lake water that is a huge detriment to the area as well as another element taken away to the small town feel that Milton once had and is struggling to hang on to.

The taste of escarpment water is extremely different then city water. It tastes clean and fresh rather then the chlorine filled lake water. Escarpment water has numerous health benefits that lake water does not. I'd rather drink water that has come off the ground in my area rather then the dirty water that thousands of commercial liners touch a day as well as pollutants that companies dump into and so on that has to be cleaned with chemicals that I'm sure lead to more serious side effects in the long run that people haven't considered.

I love Milton due to its locality to everything but its in danger of becoming another town or city (depending on how big it gets!) That it just another dot on the map rather than the spirit and familiarity it was had. The local families that everyone knew and the small shops that we all visited. I'm only 26 and in those years I have seen Milton go from a small farm town to a small metropolis of activity, some for the better and some for the worse. Switching another part of original Milton to lake water would cause me to believe that certain aspects that were once here have been stripped away for the more economic faster way of things rather than keeping the fresh, clean, natural water that once fed the fields of Milton.

Please take this into consideration when dealing with this matter.

Yours truly,

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:44 PM
To: Bhabha, Fatima
Subject: FW: Switch to lake water

Sent: Monday, March 07, 2011 2:47 PM
To: Simpson, David
Subject: RE: Switch to lake water

Hello David,

As usual I read with amazement and dismay that Halton is thinking about moving the Timberlea section of town onto the lake water feed and then possibly moving Dorset Park (where I live) within 5 years and I have to tell you that this does not sit well (pun intended) with me!

The fact that we are serviced by well water was the reason that we bought in the old section and if this change is pushed down our throats (like everything else) then I will expect full compensation for our water softener and the subsequent medical bills that will be incurred due to the consumption of chlorine, fluoride, radioactive waste, human excrement, and the blobs that float along the bottom of lake Ontario, you know, the ones that no one knows what they contain.

Perhaps I'll just drill my own well and lay in a septic bed and that way the region will have no say about what my family takes in and I and I alone will be responsible for having my water tested and can make the final decision.

Here's a suggestion, leave things as they are and if the demand on the wells is increasing ask why? Milton has survived on these for how many years and now you want to switch to the big pipe that carries water and sewage?

Oh one last question, where do you get your water from, perhaps Water Depot?

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:43 PM
To: Bhabha, Fatima
Subject: FW: Lake water switchover feedback

Sent: Monday, March 07, 2011 10:17 AM
To: Simpson, David
Subject: Lake water switchover feedback

David,

As a 16 year Milton Timberlea resident I read the Champion's article with great interest. Surprised that I missed the PIC on the subject I'm grateful that it has been brought to our attention and that you continue to seek input. I've now been brought up to speed on the PIC information with the help of Colin Best.

I'm of the opinion that, though change is inevitable with Milton's location in the provincial growth planning, it would be most desirable to seek costing alternatives to switching over the industrial and commercial areas first. There continues to be infill in these parts of town but even switching over long-term industrial residents would help to alleviate any residential switchover for the near future. This would be a preferable option to switching over drinking water from long established Milton residents.

Thank you for your time,

Sincerely,

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:44 PM
To: Bhabha, Fatima
Subject: FW: timberlea water

Sent: Tuesday, March 08, 2011 7:46 PM
To: Simpson, David
Subject: timberlea water

Good Evening David,

I'm sending you this e-mail to let you know I am totally against switching the Timberlea area to Lake water. I like the old town and I like the water, if I didn't, I would have gone to the newer areas in town. This fight should not be taking place again! Many people I talk to are proud to live in the 'old part of town' and want the things they bought here for to remain the same. I'm sure this area was not the last area to be put on well water and that it was adequate at the time. It is unfair to ask residents to give up something that may have been a factor in selecting an area of town to live in.

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:45 PM
To: Bhabha, Fatima
Subject: FW: Switching the Timberlea Neighbourhood to a Surface Water Supply - milton.ca Colin.Best Inquiry

-----Original Message-----

From: Colin Best [mailto:Colin.Best@milton.ca]
Sent: Thursday, March 10, 2011 8:35 AM

Cc: Simpson, David; Huffman, Arnold
Subject: RE: Switching the Timberlea Neighbourhood to a Surface Water Supply - milton.ca Colin.Best Inquiry

Hello

Thank you for your comments which are similar to what other Milton residents have made at the meeting and in emails made to staff and myself.

I have made the following suggestions to staff.

Convert industrial and employment areas first such as the areas north of Steeles Avenue and along Bronte St.

Convert commercial and institutional areas second such as the Milton Mall, the plazas at Ontario&Derry and the Allendale & E.C. Drury schools area.

Lastly after all other areas that are technically feasible to convert from well to lake water then existing residential areas.

As a life long resident of Milton I am very aware of the concern residents have for their water supply and as the Vice-Chair of the Halton Water Conservation Advisory committee I am working to reduce water consumption and the need to convert our water supply. Through the Ontario Building Code all new and retro-fited water fixtures have to use low flow toilets and faucets which further reduces the need to convert water supply.

These recommendations are still at the proposal stage and I expect there will be a number of changes made before any approvals are given.

Colin Best
Local & regional councillor
Wards 2,3,4,5 North of Derry road.
Milton/Halton

-----Original Message-----

y

cc:

Comments submitted: I wanted to share my concern over the Region's recent proposal in the Water and Wastewater Master Plan to transition the Timberlea neighbourhood from well water to a lake based supply. I am sending a copy of this message on to Colin Best, as well as David Simpson (the Region's Project Manager) and Chris Hamel, AECOM's Project Manager.

Gentleman,

As a Timberlea resident, I was very upset to see an article in the March 4th Champion indicating a plan to transition the Timberlea neighbourhood to a lake based water supply. Discussion of an alternate water supply for 'old' Milton has been on-going for a long time, however in recognition of community wishes, the Town and Region had previously committed to maintaining the well based water supply in 'old' Milton. The current Master Plan PIC boards also reference a desire to maintain the well based water supply for 'old' Milton, and so I was both surprised and disappointed to learn that Timberlea (and potentially Dorset Park) do not qualify as 'old' Milton. My primary objection to the proposed transition to lake based water relates to health implications. While both the lake based and groundwater based drinking water systems are subject to the same water quality standards and regulations, I believe that since Walkerton and the source protection regulations, the risks associated with groundwater contamination may now be better managed as compared to surface water.

Regulations associated with groundwater protection require special policies to limit threats within the well head protection zone as well as the two year and five year groundwater travel times to the well.

Similarly, for a lake based intake, policies extend to the land and water within a 1 hour and 2 hour travel time to the intake. Given the short time window and freedom of access associated with the lake based intake protection zone, I believe monitoring, enforcement and any required remedial action is far easier to achieve over the land based

area associated with the well head protection zones. This increases the security, and quality of the groundwater supply.

I am also concerned that the levels of pharmaceutical byproducts will be higher in lake water as compared to groundwater. Current technologies do not allow for the treatment or removal of dissolved pharmaceutical byproducts from treated wastewater effluent, which is discharged to

lakes and rivers. Studies have shown that pharmaceuticals are becoming increasingly prevalent in surface water sources, and are theorized to have resulted in the rapid decline of male fish populations in Lake Ontario. I understand that the potential impact of prolonged exposure to these byproducts on humans is currently being evaluated. As this research is still ongoing, I would strongly prefer to maintain my drinking water as a groundwater source, where exposure to pharmaceutical byproducts would be much lower due to limited sources of contamination (i.e. septic tanks serve a far more limited population). The well based water supply in old Milton is also free of Fluoride.

Many large municipalities, including Waterloo and Calgary have recently eliminated Fluoride from their water supplies. The potential health risks as opposed to health benefits are still being debated in some municipalities, and there has been strong support from the Timberlea neighbourhood as well as all of 'old' Milton to refrain from the addition of Fluoride in our water supply. Should the Timberlea neighbourhood be added to the 'big pipe', the choice to maintain fluoride free water would be lost.

The PIC materials also cited taste and odour complaints as a reason individuals preferred groundwater over surface water. I understand that odour issues are often related to biomass decay and algae blooms, that occur near shore in the shallower water. Given that the majority of the current regional climactic models are predicting a substantial drop in the Great Lake Water Levels (between 0.30 m to 1.5m) over the next fifty years, I don't know

whether the current intake location on Lake Ontario will be far enough removed to avoid taste and odour issues.

I believe the water quality from the Kelso and Walker's Line Well Fields to be substantially higher than that from Lake Ontario. The wellhead protection zones may be better protected through policies, monitoring and enforcement. Concentrations of pharmaceutical byproducts should be lower in groundwater as compared to surface water, and any decision on the addition of fluoride could be maintained as a local decision.

Additionally, the groundwater source has benefited from natural filtration through sand layers, etc., before reaching the water table.

While I do know the Region's current surface water source is safe, I believe that the groundwater portions of Milton currently enjoy is safer, and resent having the safer alternative taken away to account for intensification in the downtown Milton core.

While I understand that the Milton core has been designated a growth area by the province, and that the region will be required to identify an economically viable water supply for this area, I do not support being forced into a lake based water supply to accommodate this growth if other alternatives are available.

Could the incorporation of additional water conservation measures and investigation and treatment of groundwater exfiltration into the existing sanitary sewer system within old Milton eliminate the need for a lake based system for Timberlea? As this neighbourhood, as well as all of old Milton was developed long before incorporation of low flow toilets, water saving shower heads etc., there may be a potential to significantly reduce demand. I understand that the average daily

domestic water use has dropped substantially over the past decade, and that similar conservation strategies have been used successfully to allow for growth in the Cities of Guelph and Barrie. As the Region's rebate program for old Milton is relatively poorly advertised, there may be considerable water savings available.

Could the transition to surface water be further delayed for communities in old Milton? Given that much of the downtown core of Milton that was identified for growth by the province lies within the regulated floodplain, and is not contained within a special policy area, is it necessary to transition to a lake based supply in 5 years, when development approvals for intensification within the downtown core will be time consuming and difficult to obtain?

TOWN OF MILTON NOTICE

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Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:45 PM
To: Bhabha, Fatima
Subject: FW: Timberlea water switch

Sent: Thursday, March 10, 2011 1:54 PM
To: Simpson, David
Subject: Timberlea water switch.

Hello David,

In response to information in the Milton Champion regarding the Timberlea area changing to lake-based water; I am absolutely against it. I moved here from Toronto 30 years ago and have enjoyed well water with little added to it for disinfection. This knowledge is based on the 2010 annual drinking water quality report which lists only chlorine and potassium permanganate for the treatment process. This same report for Burlington, Burloak and Oakville and South Halton has a list of 9 chemicals used for purification including fluoridation which I do not want to see in our drinking water.

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:47 PM
To: Bhabha, Fatima
Subject: FW: Milton Champion - Timberlea residents may get lake-based water

From: Colin Best [<mailto:Colin.Best@milton.ca>]
Sent: Sunday, March 13, 2011 11:21 AM

Subject: RE: Milton Champion - Timberlea residents may get lake-based water

Thanks for your comments

I have made similar suggestions to staff including converting over well based industrial, employment and commercial areas first before any consideration is given to residential areas.

Part of the problem is the Walker's line well which supplies 4% of Milton' water is having problems with the supply and sediment issues. I understand staff's position in recommending phasing this well out due to a number of issues and will be working to achieve an acceptable solution to everyone.

ps. will keep you posted when the next public meeting is.

Sent: Friday, March 11, 2011 4:57 PM
To: david.simpson@halton.ca
Cc: Colin Best
Subject: Re: Milton Champion - Timberlea residents may get lake-based water

Good afternoon,

I wanted to provide my feedback on the proposal to move Timberlea residents to lake based water.

- I am usually pretty aware of issues that have the potential to impact my community. I was unaware that this was being considered or I would have been in attendance to discuss this. I know most of my neighbours were surprised when I contacted them. If this issue is truly being considered, I think affected residents should be contacted directly by mail to alert them of the forums available to discuss their concerns.
- I am opposed to the proposal to move my neighbourhood to the lake-based water. I would be much more interested in upgrades to the Kelso supply to meet the demands of the community currently being service by it. Having lived n Oakville for 15 years and Milton for 15 years, I really do appreciate the better quality of the Milton water my family is currently using.
- I think there are other industrial and institutional facilities that should be considered first, well before looking at the residential consumers
- I am surprised that other conservation measures have not been really been considered (or if they have, they have not been communicated to residents) i.e. low flow toilet incentives, watering restrictions.

- I would really like to know what has changed that would cause this to be considered. Had the Milton growth not happened, would "Old Milton" really be in danger of not having a viable water supply to meet its needs. I don't think that is the case.

I would really like to see the lake-base option removed from consideration and I believe many of the members of the Timberlea community would feel the same way if they actually knew this was being considered. I would appreciate being put on any email alerts regarding this issue as I am sure it will be further discussed.

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 12:48 PM
To: Bhabha, Fatima
Subject: FW: Response to Halton Region re Switching some Milton Homes from Well to Lake Water - milton.ca Colin.Best Inquiry

-----Original Message-----

From: Colin Best [mailto:Colin.Best@milton.ca]
Sent: Sunday, March 13, 2011 11:38 AM
To:
Cc: Simpson, David; Huffman, Arnold
Subject: RE: Response to Halton Region re Switching some Milton Homes from Well to Lake Water - milton.ca Colin.Best Inquiry

Hello Irene

Thank you for your email and concerns.

I am copying your email to David Simpson the Regional staff person in charge of the project and Arnold Huffman your local councillor.

I agree with your concerns and have already expressed them to staff and consultants and recommend that industrial, employment and commercial areas be converted first before any consideration is given to residential areas.

Part of the problem is the Walker's Line well which supplies Milton with 4% of its water needs is having problems with sediment in the water and the Kelso wells are not drawing the expected water flow. Along with the new Provincial Clean Water Act and Source Water protection regulations regional staff are making these recommendations which still have to be considered by Regional committees and council before any measures are phased in.

The downtown area being considered for conversion is the new intensification area from Ontario Street to Thompson road on both sides of Main St. and Nipissing road which would not affect current residents.

This area is known as the Nipissing triangle and is within the Provincial Places to Grow Urban Growth Centre(see attached map)

http://www.milton.ca/plandev/Complete_Set_of_Final_Panels.pdf

The area west of Ontario St. is still recommended to remain on the well based system and much of it cannot be built up due to the Flood plain regulations west of Court St.

I will let you know when the next public meeting is scheduled and hope you can attend.

Colin Best
Local & regional councillor
Wards 2,3,4,5 North of Derry road.
Vice-Chair Halton planning and public works committee Vice-chair Halton Water conservation advisory committee.

Original Message

Bhabha, Fatima

From: Campbell, Chris
Sent: Wednesday, March 23, 2011 10:25 AM
To: Bhabha, Fatima
Subject: FW: Jane Cousins - Mailing List Update

From: Pawlus, Jacek [<mailto:Jacek.Pawlus@halton.ca>]
Sent: Wednesday, March 23, 2011 9:53 AM
To: Campbell, Chris; Hamel, Chris
Subject: FW: Jane Cousins - Mailing List Update

Chris/Chris:

Please change address for _____ to _____

Thanks

Jacek

From: Pallo, Alex
Sent: Wednesday, March 23, 2011 9:34 AM
To: Simpson, David
Cc: Pawlus, Jacek
Subject: RE:

Good Morning David,

Yes _____ is on the Master Plan mailing list (Development Community), I have updated her contact information to reflect the change of address.

Alex

From: Simpson, David
Sent: Wednesday, March 23, 2011 9:25 AM
To: Pallo, Alex
Cc: Pawlus, Jacek
Subject: FW: Jane Cousins

Hi Alex,

Could you check the Master Plan mailing list and update as per request below.

Thanks,

David

From: Daruwala, Jon
Sent: Wednesday, March 23, 2011 9:16 AM
To: Simpson, David
Cc: Lutz, Meghan; McAlpine-Sims, Kathy
Subject: RE: Jane Cousins

Hi David,

I received this e-mail yesterday from Access Halton. I'm really not sure who's department this is. Any ideas?

Thanks,

Jon

Sent: Tuesday, March 22, 2011 10:27 AM
To: Daruwala, Jon
Subject:

is calling because she owns a property at She lives in the UK and there are notices sent to her old UK address about water. She wants' to keep receiving the notices but she wants them sent to her new address at. She said the notices are from David Simpson, is this something you could help with?

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Thank you

PUBLIC INFORMATION CENTRE #2

QUESTIONNAIRES & REPLY FORMS

COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 2

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **March 11, 2011**:

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

1. Keep & support the well water system: - good water - back-up - existing people like the concept. We moved to Milton because of this (there were other considerations also) but a well water source was and is a plus.

2. Careful preservation efforts are seemingly being made for the escarpment lands. Thankfully the lands E of Bronte and N of Main St are in the protected lands. That is good for this community, we need this space to be protected, for the sake of the charm and protection of green space. Don't encroach any more on Escarpment.

3. PLEASE shut down and re-direct the flow (sanitary) from the Milton STP - overflow in storms so smell in summer. I'd imagine no room to upgrade - too costly.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____
(please print)
 ADDRESS: _____

 POSTAL CODE: _____
 PHONE: _____
(day)

4. Proposed Employment lands(?) when is it too far and too much. (see 2. above.)

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PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> <u>(Y/N)</u>	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very Somewhat Not at all
1 2 3 4 5

b) How helpful were the staff and consultants in attendance?

Very Somewhat Not at all
1 2 3 4 5

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

A lot of focus on people in suits, obviously consultants. But saying this I am thankful for the efforts to single out the questions and enquiries of residents. The staff worked well at this and did an excellent job. Thank you Halton staff.

COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 2

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Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

I and my group previously SOS - save our Source worked back in 1998 to preserve the ~~good~~ ground water source for old Milton. We would very much appreciate your efforts to continue this endeavour. In talking with Mr. Chris Hamel this evening we discussed the idea of targeting the N.W. corner of the existing groundwater service area by creating the new Tremaine Road watermain before the SE corner of old Milton where my house happens to be located. The initiative to save our groundwater source came from a love of Miltonians for their ~~g~~ spring-based water. We agreed with the proposal to target the main street core first, but please consider the industrial NW area next. It is unfortunate that the Ontario government's strategy of places to grow is targeting Milton so strongly that it is threatening Milton's water source. Your efforts to help us preserve our water source is very much appreciated.

Thank you for your participation. Please provide your contact information below, should you wish to be added to our Project Mailing List.

NAME: Milton green

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

P.S. ^(day) It is very distressing to consider the loss of our water source especially considering the efforts that we went through to preserve it. I wish that the Waller's line station could remain viable though you have said that the current costs would be considerable for repair.

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PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other

*fellow
milton
green
member*

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very
1
2
Somewhat
3
4
Not at all
5

b) How helpful were the staff and consultants in attendance?

Very
1
2
Somewhat
3
4
Not at all
5

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

I had asked to be notified by mail of any further proposed changes to the water source. I after the last time public meetings were held regarding losing the ^{ground}water-based system in Milton, I did not notice mail to that effect. Please continue to let me know of ^{proposed} changes to the water source, Thank you.

It is very distressing to think of the loss of our ~~we~~ groundwater based system, especially considering the efforts we put forth to preserve it in 1998.

Sincerely

COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 2

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Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

- Any Regional Plan has to include reference to water conservation strategies that need to be employed to protect this resource.
- Water Needs can be identified, but solutions presented should be both
 - Technical/infrastructure
 - Conservation.
- Conservation opportunities need to be identified
 - building/home retrofits
 - Subdivision design (roads, ditches, bioswales) to increase percolation
- Best practices from Australia, California, etc need to be researched and actively promoted in Halton with "incentives" to householders and developers to change their thinking

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

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105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

1) Ad should state 'drop in format'

2) Acronym definitions s/b available for key person

3) Direction as to where to find presentation on the web s/b readily available.

* 4) What is the breakdown/#s behind ~~30~~ Halton Region's 59% reduction in water use planned

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____
 (day) _____

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PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y *	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very
1 2 Somewhat 3 4 Not at all 5

b) How helpful were the staff and consultants in attendance?

Very
1 2 Somewhat 3 4 Not at all 5

Were all your questions answered satisfactorily?

Yes ~~***~~ No

Other Comments:

a) * Ad should state drop in format. I was expecting a formal presentation & thought I was bte

b) ** Acronym definition would be helpful for the key person

c) *** exactly where to find on the web (presentation) would be valuable.

d) What is the breakdown of Halton Region's 5% reduction in water use.



COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 2

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Regional Municipality of Halton
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AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

we are the owner of below listed property & this is in post 2021-2031 we are requesting this piece of land is a isolated piece of property and we are requesting if this property can be developed now. we are very concerned that it is being shown after 2021

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

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Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, March 15, 2011 5:06 PM
To: Bhabha, Fatima
Subject: FW: PIC#2 Comment
Attachments: DOC110315-013.pdf

Categories: Blue Category

-----Original Message-----

From: Pawlus, Jacek [<mailto:Jacek.Pawlus@halton.ca>]
Sent: Tuesday, March 15, 2011 4:15 PM
To: Hamel, Chris
Cc: Simpson, David; Campbell, Chris
Subject: PIC#2 Comment

Chris H.,

Please find attached another public comment from PIC #2. Please send your general letter to them as well as add them to your summary sheet of comments list.

Thanks

Jacek Pawlus, MMI, P.Eng.
Project Manager, Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7204
Cell: 905-464-5527

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Thank you



COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

Public Information Centre No. 2

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Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L4

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3R 9V3

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

* HAVE NO QUARREL WITH PROTECTED WELLS TO BE DRILLED
NORTH OF ACTON, BOTH EAST AND WEST (HWY 25) OF
(CHURCHILL RD)
ACTON INDUSTRIAL PARK. PRESUME THEY WOULD TAP AQUIFERS

* HAVE GRAVE RESERVATIONS ABOUT DRAWING SIGNIFICANT (+/- 30%
INCREASED VOLUME OF WATER FROM PROSPECT SPRING. IF YOU LIVE
NEAR THAT BODY OF WATER YOU KNOW HOW
SUMMER TEMPERATURES AFFECT THE POLLUTION LEVEL
AND ALGAE (ETC.) GROWTH. FURTHER, THERE ARE FEW OTHER
NATURAL MARSH, SWAMP AND OTHER WATERING OPTIONS LEFT
FOR WILDLIFE. DIMINISHED WATER LEVELS WILL ADVERSELY
IMPACT RESIDENTIAL AREAS WRAPPING THE PERIMETER OF
PROSPECT MARSH. ODOUR CONSEQUENCES ALONE WILL DRAW FURY
IF RAINFALL DECREASES, ODOUR PROBLEMS INCREASE, WATER QUALITY DROPS
IT IS ALARMING TO LEARN HALTON REGION + AECOM ENGINEERING
CAN EVEN BE CONSIDERING ^{PROSPECT} WELLS AS THEIR "PREFERRED OPTION."
→ EXPEDIENT, CONVENIENT, DESTRUCTIVE PROPOSAL.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

- Newspaper ad
 Notice in mail
 Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

- Very 1 2 Somewhat 3 4 Not at all 5

b) How helpful were the staff and consultants in attendance?

- Very 1 NA 2 Somewhat 3 4 Not at all 5

Were all your questions answered satisfactorily?

- Yes No

NOT APPLICABLE
 I UNDERSTAND
 I JUST DON'T
 AGREE.

Other Comments:

The premise that the area must grow as mandated by the province is the key flaw. It offers no benefits to the community, it is for the development community at large.

Given that that will not change (as the developers donate large amounts to all political parties, these "options" are within that flawed context.

the development community is desperate for a pipe to give them unlimited lake water to remove water as a roadblock to development. While I am told that the size of flow in a pipe can be limited to prevent this, (by honourable people), My experience is that when this

(over)

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door is opened, the region or province will find technicalities to override the limitation.

For example, by stating that to be cost effective a pipe would need to have a minimum flow capacity that greatly exceeds limits a flow that local government wants to create.

Therefore, I am against any use of lake water in Georgetown.

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other

*Email notice
by P.O.W.E.R.*

Please indicate your satisfaction with the following:

	<u>Satisfied</u> <u>(Y/N)</u>	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	<u>Y</u>	_____
Time of Meeting	<u>Y</u>	_____
Day of the Week	<u>Y</u>	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials? *a good starting point for explanation by staff.*

Very (1) Somewhat (3) Not at all (5)

b) How helpful were the staff and consultants in attendance?

Very (1) Somewhat (3) Not at all (5)

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

*Staff - Region & AECOM - helpful, friendly, good listeners,
affirming - tagteam to other staff for answers.*

Q. Are there women staff?

Q. Might The Credit Valley Conserv. Authority have been included in the topic of water? I would have liked them to be present.

Concern: I live in an old part of Gtn. I hope that the infrastructure that is already getting older will be factored in to the costs for servicing the town.

*Newspaper communication about the MP is important.
This public awareness opportunity is also important.*

P.S. The Comments Box is not suitable for long paper submissions

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PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

- Newspaper ad Notice in mail Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> <u>(Y/N)</u>	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

- Very Somewhat Not at all
1 2 3 4 5

b) How helpful were the staff and consultants in attendance?

- Very Somewhat Not at all
1 2 3 4 5

Were all your questions answered satisfactorily?

- Yes No

Other Comments:

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- Newspaper ad Notice in mail Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

- Very Somewhat Not at all
1 2 3 4 5

b) How helpful were the staff and consultants in attendance?

- Very Somewhat Not at all
1 2 3 4 5

Were all your questions answered satisfactorily?

- Yes No

Other Comments:

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

Your answers to the following questions will help us ensure future meetings take into account any concerns you may have.

How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very		Somewhat		Not at all
1	2	3	4	5

-to many words

b) How helpful were the staff and consultants in attendance?

Very		Somewhat		Not at all
1	2	3	4	5

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

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Newspaper ad

Notice in mail

Other

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Day of the Week	Y	_____

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a) How informative were the display materials?

Very
Somewhat
Not at all

1
2
3
4
5

b) How helpful were the staff and consultants in attendance?

Very
Somewhat
Not at all

1
2
3
4
5

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

I STILL NOT GET MY ANSWERS IF WE CAN
 USE THIS LAND WE HAVE IN MILTON ON JAMES
 SNOW PKY AND ESBUSSING LINE FOR OUR
 BUSINESS A CITY CAN GIVE US PERMISSION FOR THAT.

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

Newspaper ad Notice in mail Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
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Very
Somewhat
Not at all

1
2
3
4
5

b) How helpful were the staff and consultants in attendance?

Very
Somewhat
Not at all

1
2
3
4
5

Were all your questions answered satisfactorily?

Yes No

Other Comments:

- Learned more about how the study & planning for growth of water infrastructure & services conducted. Wetlands & other studies explained.

- Not too clear yet on wastewater expansion - need to think about this more fully.

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How did you hear about this public meeting?

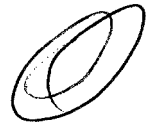
Newspaper ad

Notice in mail

Other

Please indicate your satisfaction with the following:

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Time of Meeting	Y	_____
Day of the Week	Y	_____



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1
2
Somewhat
3
4
Not at all
5

b) How helpful were the staff and consultants in attendance?

Very
1
2
Somewhat
3
4
Not at all
5

Were all your questions answered satisfactorily?

Yes

No

Other Comments:

PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

Newspaper ad

Notice in mail

Other (website)

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Very 1	2	Somewhat 3	4	Not at all 5
-----------	----------	---------------	---	-----------------

b) How helpful were the staff and consultants in attendance?

Very 1	2	Somewhat 3	4	Not at all 5
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Were all your questions answered satisfactorily?

Yes No

Other Comments:

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COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 2

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by **March 11, 2011**:

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

I represent the property owned by Randvest Inc located north of the 407 at the south-west corner of Trafalgar Road and Lower Base Line.

In reviewing the servicing alternatives, the above lands are not accommodated. We find this situation unacceptable since the Halton Region and the Town of Milton both anticipate these lands to be developed in the future.

We attach for your information a sketch showing possible servicing of our lands and other lands north of the 407 using future services to be installed in the North Oakville Secondary Plan.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

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How did you hear about this public meeting?

Newspaper ad
 Notice in mail
 Other

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	Y	_____
Time of Meeting	Y	_____
Day of the Week	Y	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very Somewhat Not at all
 1 2 3 4 5

b) How helpful were the staff and consultants in attendance?

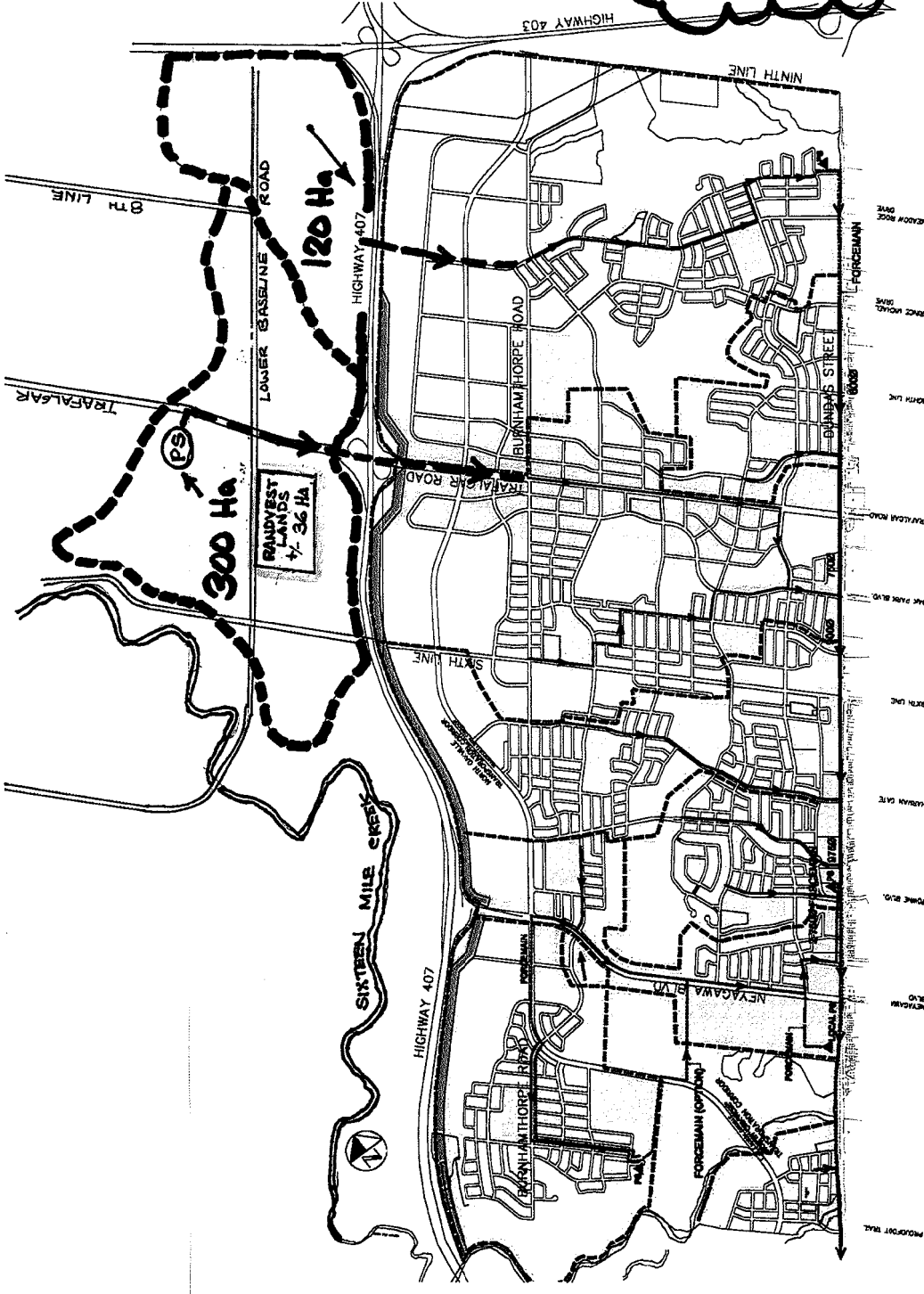
Very Somewhat Not at all
1 2 3 4 5

Were all your questions answered satisfactorily?

Yes
 No

Other Comments:

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ENVIRONMENTAL IMPLEMENTATION
REPORT AND FUNCTIONAL
SERVICING STUDY

BURNSIDE
KLM
RAND
SAVANTA **STONEYBROOK**

site

- LEGEND:
- DUNDAS STREET TRUNK SEWER
 - DUNDAS STREET FORCEMAIN
 - SUB-TRUNK SEWER
 - SUB-TRUNK FORCEMAIN
 - WASTEWATER PUMPING STATION
 - SUB-TRUNK DRAINAGE BOUNDARY
 - PS

SANITARY
DRAINAGE AREA
BOUNDARY (NORTH
OF HWY 407

PS

FUTURE SEWAGE
PUMPING STATION

TRUNK
EXTENSIONS
THROUGH
NORTH OAKVILLE

0 500 m

16 MILE CREEK SUBCATCHMENT SMT1

Figure 9.1
External Wastewater Projects

INFORMATION OBTAINED FROM JUNE 2010
"AREA SERVICING PLAN, NORTH OAKVILLE
EAST SECONDARY PLAN"
PREPARED BY MMM GROUP LIMITED.

Bhabha, Fatima

From:
Sent: Wednesday, February 23, 2011 11:02 AM
To: Bhabha, Fatima
Cc: Hamel, Chris; david.simpson@halton.ca
Subject: RE: Sustainable Halton Water & Wastewater Master Plan -Burlington PIC # 2 (Feb 17)
Attachments: Completed PIC No 2 Comment Sheet And Questionnaire.pdf

Fatima,

Attached is a copy of my completed PIC # 2 Comment Sheet and Questionnaire and thank you for sending same to me to fill out.

Regards,

From: Bhabha, Fatima [<mailto:Fatima.Bhabha@aecom.com>]

Sent: Tuesday, February 22, 2011 9:25 AM

Cc: Hamel, Chris; david.simpson@halton.ca

Subject: Sustainable Halton Water & Wastewater Master Plan -Burlington PIC # 2 (Feb 17)

I've attached a copy of the Comment Sheet from the Burlington PIC #2 for you to fill out. You have also been added to the mailing list and will continue to receive updates throughout the master planning process.

If you have any questions or require additional information regarding the Sustainable Halton Water & Wastewater Master Plan, please contact either Chris Hamel at 905.747.7562 or via email at chris.hamel@aecom.com. You can also contact David Simpson at 905.825.6000 ext. 7601 or via email at david.simpson@halton.ca.

Regards,

Fatima Bhabha

Junior Planner

fatima.bhabha@aecom.com

D: 905.747.7613

AECOM

105 Commerce Valley Drive West

Markham, ON L3T 7W3

T: 905.886.7022 F: 905.886.9494

www.aecom.com



COMMENT SHEET

Sustainable Halton Water and Wastewater Master Plan
Municipal Class Environmental Assessment Study

Public Information Centre No. 2

We welcome and appreciate your comments. Please take some time to comment on any aspect of the Project that you consider to be important and drop your completed Comment Sheet in the box provided, or mail/fax/e-mail your comments to either of the following individuals by March 11, 2011:

Mr. David Simpson
Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

Telephone: 905-825-6000 ext. 7601
Fax: 905-825-8822
Email: david.simpson@halton.ca

Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@acocom.com

COMMENTS:

No comments at present.

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME:

ADDRESS:

POSTAL CODE:

PHONE:

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PUBLIC INFORMATION CENTRE QUESTIONNAIRE

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How did you hear about this public meeting?

- Newspaper ad Notice in mail

Other (By a colleague)

Please indicate your satisfaction with the following:

	<u>Satisfied</u> (Y/N)	<u>If Not Satisfied,</u> <u>Please Specify Your Preference Here</u>
Location of Meeting	✓	_____
Time of Meeting	✓	_____
Day of the Week	✓	_____

On a scale from 1 to 5, where "1" is "very" and "5" is "not at all", please rate the following by circling the appropriate number:

a) How informative were the display materials?

Very 1 2 Somewhat 3 4 Not at all 5

b) How helpful were the staff and consultants in attendance?

Very 1 2 Somewhat 3 4 Not at all 5

Were all your questions answered satisfactorily?

- Yes No

Other Comments:

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Sustainable Halton Water and Wastewater Master Plan Municipal Class Environmental Assessment Study

Public Information Centre No. 2

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Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Rd. Oakville, ON L6M 3L1

Telephone: 905-825-6000 ext. 7601
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Mr. Chris Hamel
AECOM
105 Commerce Valley Drive West
Markham, Ontario L3T 7W3

Telephone: 905-747-7562
Fax: 905-886-9494
Email: chris.hamel@aecom.com

COMMENTS:

Should shut down Milton's
in town sewage treatment plant
(Milton STP)

Thank you for your participation. Please provide your contact information below should you wish to be added to our Project Mailing List.

NAME: _____

ADDRESS: _____

POSTAL CODE: _____

PHONE: _____

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PUBLIC INFORMATION CENTRE #2

RESPONSES



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Paul Brown
MTE- More Than Engineering
3115 Harvester Road, Suite 200
Burlington, ON
L7N 3N8

Dear Mr. Brown,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

Further to our letter sent March 16, 2011, AECOM and Region staff met with the development group in person on March 31, 2011 to address comments and concerns regarding Milton's

The Regional Municipality of Halton

Wastewater Servicing Strategy. The meeting was held to provide a forum for developers to discuss the co-ordination of projects in a timely manner and offer any insight on the strategy.

The following is a summary of specific discussion items and the status of projects discussed at the meeting.

ISSUES:

Location of the new Britannia Road Wastewater Pumping Station (WWPS) (#5069 / #6427)

Potential service area of the Britannia Road WWPS

Timing of infrastructure to develop eastern portions of Milton

Milton BPII servicing alternatives and a review of Milton BPII servicing

Proposed option of servicing Boyne, Derry Green, Britannia North/South, Milton East and Georgetown lands via a single Britannia Road WWPS, versus the preferred concept of one WWPS at Britannia Road and one at Lower Baseline

Overall infrastructure costs for the existing strategy

STATUS:

An evaluation has been conducted to determine the optional site for the new Britannia Road WWPS (#5069 / #6427). The WWPS has been relocated to Britannia Road west of Thompson Road nearer the tributary of Sixteen Mile Creek. The evaluation considered several factors such as emergency overflows, sewer slopes, sewer depths, sewer lengths and timing of required infrastructure. In addition, infrastructure funding and downstream sewer impacts were also considered.

The revised location will provide a servicing solution with greater overall flexibility and minimize the overall length of linear infrastructure including trunk sewer, forcemains and overflow sewer. The strategy will require a deep trunk sewer on Britannia Road, which will be sized to accommodate some interim flows from the post-2021 growth areas within Georgetown and Milton.

While discussion and evolution has taken place for these projects, this strategy is consistent with the previous strategy identified in the 2008 Master Plan Update.

An evaluation has been conducted to determine the preferred strategy for the servicing of the BPII lands. The existing strategy identifies the need for a WWPS on 5th Line, south of Derry Road. The detailed design for this WWPS is currently underway. An option was introduced that entailed a gravity solution for the majority of the area, with the construction of a smaller WWPS, further east of 5th Line. This would require the immediate construction of Projects 5894, 5066, 6116, 5067, 6115/5068 and a temporary WWPS at Britannia Road / Third Line.



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

The conclusion was made that the timing of the second option would not be feasible and that, though there may be some cost savings, they would not be significant enough to risk the delay of development in the BPII area.

Opportunity to consolidate the two stations at Britannia Road and Lower Baseline into a single WWPS at Britannia Road was reviewed. The final preferred servicing strategy maintains both to provide security, operational flexibility, accommodate phasing and potentially defer costs.

Please refer to the Wastewater Capital Program in the Master Plan Report for further details and cost estimates.

Sections 10 through 12 of the Master Plan Report provide the existing system conditions and alternative wastewater solutions that led to the Preferred Wastewater Servicing Strategy, outlined in Section 14. The evaluation process presented at PIC #2 is also documented in the Master Plan Report.

The next steps in the Master Planning process are as follows:

Address any comments received post-filing

Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule

Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule

Key follow on studies would be undertaken as required

We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

York Gruehl
York Trafalgar Corp.
1039 Fourth Line
Milton, ON
L9T 6P9

Dear Mr. Gruehl,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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The Regional Municipality of Halton

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STATUS:

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The revised location will provide a servicing solution with greater overall flexibility and minimize the overall length of linear infrastructure including trunk sewer, forcemains and overflow sewer. The strategy will require a deep trunk sewer on Britannia Road, which will be sized to accommodate some interim flows from the post-2021 growth areas within Georgetown and Milton.

While discussion and evolution has taken place for these projects, this strategy is consistent with the previous strategy identified in the 2008 Master Plan Update.

An evaluation has been conducted to determine the preferred strategy for the servicing of the BPII lands. The existing strategy identifies the need for a WWPS on 5th Line, south of Derry Road. The detailed design for this WWPS is currently underway. An option was introduced that entailed a gravity solution for the majority of the area, with the construction of a smaller WWPS, further east of 5th Line. This would require the immediate construction of Projects 5894, 5066, 6116, 5067, 6115/5068 and a temporary WWPS at Britannia Road / Third Line.



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

The conclusion was made that the timing of the second option would not be feasible and that, though there may be some cost savings, they would not be significant enough to risk the delay of development in the BPII area.

Opportunity to consolidate the two stations at Britannia Road and Lower Baseline into a single WWPS at Britannia Road was reviewed. The final preferred servicing strategy maintains both to provide security, operational flexibility, accommodate phasing and potentially defer costs.

Please refer to the Wastewater Capital Program in the Master Plan Report for further details and cost estimates.

Sections 10 through 12 of the Master Plan Report provide the existing system conditions and alternative wastewater solutions that led to the Preferred Wastewater Servicing Strategy, outlined in Section 14. The evaluation process presented at PIC #2 is also documented in the Master Plan Report.

The next steps in the Master Planning process are as follows:

Address any comments received post-filing

Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule

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Key follow on studies would be undertaken as required

We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

David Leighton
Senior Partner
Urbantech Consulting
25 Royal Crest Court, Suite 201
Markham, ON
L3R 9X4

Dear Mr. Leighton,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

Further to our letter sent March 16, 2011, AECOM and Region staff met with the development group in person on March 31, 2011 to address comments and concerns regarding Milton's

The Regional Municipality of Halton

Wastewater Servicing Strategy. The meeting was held to provide a forum for developers to discuss the co-ordination of projects in a timely manner and offer any insight on the strategy.

The following is a summary of specific discussion items and the status of projects discussed at the meeting.

ISSUES:

Location of the new Britannia Road Wastewater Pumping Station (WWPS) (#5069 / #6427)

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Overall infrastructure costs for the existing strategy

STATUS:

An evaluation has been conducted to determine the optional site for the new Britannia Road WWPS (#5069 / #6427). The WWPS has been relocated to Britannia Road west of Thompson Road nearer the tributary of Sixteen Mile Creek. The evaluation considered several factors such as emergency overflows, sewer slopes, sewer depths, sewer lengths and timing of required infrastructure. In addition, infrastructure funding and downstream sewer impacts were also considered.

The revised location will provide a servicing solution with greater overall flexibility and minimize the overall length of linear infrastructure including trunk sewer, forcemains and overflow sewer. The strategy will require a deep trunk sewer on Britannia Road, which will be sized to accommodate some interim flows from the post-2021 growth areas within Georgetown and Milton.

While discussion and evolution has taken place for these projects, this strategy is consistent with the previous strategy identified in the 2008 Master Plan Update.

An evaluation has been conducted to determine the preferred strategy for the servicing of the BPII lands. The existing strategy identifies the need for a WWPS on 5th Line, south of Derry Road. The detailed design for this WWPS is currently underway. An option was introduced that entailed a gravity solution for the majority of the area, with the construction of a smaller WWPS, further east of 5th Line. This would require the immediate construction of Projects 5894, 5066, 6116, 5067, 6115/5068 and a temporary WWPS at Britannia Road / Third Line.



**Public Works
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Opportunity to consolidate the two stations at Britannia Road and Lower Baseline into a single WWPS at Britannia Road was reviewed. The final preferred servicing strategy maintains both to provide security, operational flexibility, accommodate phasing and potentially defer costs.

Please refer to the Wastewater Capital Program in the Master Plan Report for further details and cost estimates.

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.

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**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Mark Pavkovic
South Georgetown Landowners Group
Land Acquisition and Development
291 Edgely Boulevard, Suite 1
Concord, ON
L4K 3Z4

Dear Mr. Pavkovic:

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

We appreciate your support for the preferred servicing strategy in Georgetown to utilize a lake based system to support existing and future growth. Details on the preferred water and

The Regional Municipality of Halton



**Public Works
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wastewater servicing strategies are provided in Sections 13 and 14 of the Master Plan Report, respectively. Section 16 of the Report provides the Water and Wastewater Capital Program, complete with Class EA schedules, timing and costs.

In terms of servicing considerations and strategies beyond 2031, please see Section 17.3 of the Report for further details on the implications of longer term servicing requirements.

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Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.

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**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

David Scott
Founding Partner
The Municipal Infrastructure Group Ltd.
8800 Dufferin Street, Suite 200
Vaughan, ON
L4K 0C5

Dear Mr. Scott,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

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The Regional Municipality of Halton

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**Public Works
Water and Wastewater Services
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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Mr. David Scott, P.Eng.
The Municipal Infrastructure Group Ltd.
8800 Dufferin Street, Suite 200
Vaughan, Ontario
L4K 0C5

Dear David,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan. We are responding to your comments as part of the Master Plan process and recently summarized in your letter dated September 30, 2011 regarding the Britannia South Lands.

Please see the following responses to your comments:

1. Noted.
2. Noted.
3. We have received and reviewed your information provided regarding the potential servicing of lands south of Britannia Road. While we agree that some lands south of Britannia Road will be capable of being serviced north to the Britannia Road infrastructure without further impacting infrastructure depth, we are not proposing to convey all flows north from this service area. The ultimate servicing strategy for Britannia South will be via gravity sewers south of Britannia Road that drain to the Lower Baseline SPS.

However, prior to the ultimate strategy, lands south of Britannia Road and fronting it can be serviced by the existing trunk sewer on Britannia Road that discharges to the Britannia Road SPS.

This will support the intent to defer the Lower Baseline SPS capital costs.

4. Noted. This remains the ultimate strategy.
5. The lands identified as Britannia South are scheduled to be developed in the period between 2021 and 2031 as per the Best Planning Estimates. The approximate 2000 units south of Britannia Road between 2021 and 2026 are consistent with the Best Planning Estimates.
6. Noted.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
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Oakville ON L6M 3L1**

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

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John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

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Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



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Water and Wastewater Services
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October 7, 2011

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The Municipal Infrastructure Group Ltd.
8800 Dufferin Street, Suite 200
Vaughan, Ontario
L4K 0C5

Dear David,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan. We are responding to your comments as part of the Master Plan process and recently summarized in your letter dated September 30, 2011 regarding the West Boyne Lands.

In consideration for growth out to 2031, the preferred wastewater servicing strategy for Milton West has changed slightly since the 2008 Water and Wastewater Master Plan Update. The servicing needs have changed based on the growth needs beyond 2021 including the Milton Education Village.

During the Sustainable Halton Master Plan process, the preliminary servicing strategy, as presented at the second PIC, did reflect the previous 2008 strategy and was consistent with information provided by the development community. Upon further review of the servicing needs, this strategy required refinement.

Based on our topographical assessment, the wastewater sewers east of the Ontario Hydro Easement can drain by gravity easterly to the Boyne Trunk Sewer without impact on the depth of sewers, without the need for additional fill, and without the need to introduce a pumping station.

The Sustainable Halton Master Plan strategy provides for an invert of 181.95 m at the manhole on Britannia Road between the Ontario Hydro Easement and Bronte Road (1st Line). This invert is lower than the preliminary design invert of 182.0 m presented by TMIG.

As you are aware, the implementation process for the Boyne Trunk Sewer is underway. Based on the timing of this project, there is no impact to timing envisioned for the Boyne West Lands. Allowance has already been made for the Britannia Road sewer at the intersection with Hwy 25. The preferred wastewater servicing strategy will not impact the timing of lands south of Louis St. Laurent and west of Bronte Road (1st Line).

This strategy also provides for servicing of the Milton Education Village through the Tremaine Road SPS. Our calculations demonstrate that by removing the Boyne West Lands east of the Ontario Hydro Easement, there is adequate capacity in the Tremaine Road SPS to accommodate

The Regional Municipality of Halton

the Milton Education Village and remain within the 550 L/s capacity. It is not anticipated that expansion of the station will be required and as such, no further capital project is planned.

The calculations for ultimate flows are as follows:

Catchment area including:

North of Louis St. Laurent
South of Louis St. Laurent west of Ontario Hydro Easement
Milton Education Village

Total population = 40,535
Total industrial = 97
Total commercial = 1,345
Total institutional = 2,580
Total equiv pop = 43,218
Total area = 694 ha

Dry Weather Flow = 137.6 L/s
Harmon peak factor = 2.32
Peak DWF = 319.7 L/s
Extraneous Flow = 198.4 L/s
Total Peak Flow = 518.1 L/s

Based on the above calculations, the catchment area could sustain a peak factor of over 2.5 and remain within the 550 L/s capacity.

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Oakville ON L6M 3L1**

Sincerely,

Halton Region

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Manager of Water Planning

encl.

Halton Region

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John Duong, P.Eng.
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Chris Hamel, P.Eng.
Project Manager



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Michael Telawski
Development Manager
Trinison Management Corp.
8600 Dufferin Street
Vaughan, ON
L4K 5P5

Dear Mr. Telawski,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

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The Regional Municipality of Halton

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Opportunity to consolidate the two stations at Britannia Road and Lower Baseline into a single WWPS at Britannia Road was reviewed. The final preferred servicing strategy maintains both to provide security, operational flexibility, accommodate phasing and potentially defer costs.

Please refer to the Wastewater Capital Program in the Master Plan Report for further details and cost estimates.

Sections 10 through 12 of the Master Plan Report provide the existing system conditions and alternative wastewater solutions that led to the Preferred Wastewater Servicing Strategy, outlined in Section 14. The evaluation process presented at PIC #2 is also documented in the Master Plan Report.

The next steps in the Master Planning process are as follows:

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Frank Varga
Varga, Gatka, Schuller
41 Clarinda Drive
North York
On, M2K 2W4
(416) 733- 8155

Dear Mr. Varga,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

Further to our letter sent March 16, 2011, AECOM and Region staff met with the development group in person on March 31, 2011 to address comments and concerns regarding Milton's

The Regional Municipality of Halton

Wastewater Servicing Strategy. The meeting was held to provide a forum for developers to discuss the co-ordination of projects in a timely manner and offer any insight on the strategy.

The following is a summary of specific discussion items and the status of projects discussed at the meeting.

ISSUES:

Location of the new Britannia Road Wastewater Pumping Station (WWPS) (#5069 / #6427)

Potential service area of the Britannia Road WWPS

Timing of infrastructure to develop eastern portions of Milton

Milton BPII servicing alternatives and a review of Milton BPII servicing

Proposed option of servicing Boyne, Derry Green, Britannia North/South, Milton East and Georgetown lands via a single Britannia Road WWPS, versus the preferred concept of one WWPS at Britannia Road and one at Lower Baseline

Overall infrastructure costs for the existing strategy

STATUS:

An evaluation has been conducted to determine the optional site for the new Britannia Road WWPS (#5069 / #6427). The WWPS has been relocated to Britannia Road west of Thompson Road nearer the tributary of Sixteen Mile Creek. The evaluation considered several factors such as emergency overflows, sewer slopes, sewer depths, sewer lengths and timing of required infrastructure. In addition, infrastructure funding and downstream sewer impacts were also considered.

The revised location will provide a servicing solution with greater overall flexibility and minimize the overall length of linear infrastructure including trunk sewer, forcemains and overflow sewer. The strategy will require a deep trunk sewer on Britannia Road, which will be sized to accommodate some interim flows from the post-2021 growth areas within Georgetown and Milton.

While discussion and evolution has taken place for these projects, this strategy is consistent with the previous strategy identified in the 2008 Master Plan Update.

An evaluation has been conducted to determine the preferred strategy for the servicing of the BPII lands. The existing strategy identifies the need for a WWPS on 5th Line, south of Derry Road. The detailed design for this WWPS is currently underway. An option was introduced that entailed a gravity solution for the majority of the area, with the construction of a smaller WWPS, further east of 5th Line. This would require the immediate construction of Projects 5894, 5066, 6116, 5067, 6115/5068 and a temporary WWPS at Britannia Road / Third Line.



**Public Works
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The conclusion was made that the timing of the second option would not be feasible and that, though there may be some cost savings, they would not be significant enough to risk the delay of development in the BPII area.

Opportunity to consolidate the two stations at Britannia Road and Lower Baseline into a single WWPS at Britannia Road was reviewed. The final preferred servicing strategy maintains both to provide security, operational flexibility, accommodate phasing and potentially defer costs.

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Sincerely,

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Manager of Water Planning

Halton Region

John Duong, P.Eng.
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AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

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The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Blair Wolk
6205 Airport Road
Mississauga, ON
L4V 1E3

Dear Mr. Wolk,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

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As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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We appreciate your comments provided in your letter dated March 11, 2011. With respect to your comments regarding accommodating future employment lands specifically as it relates to provide adequate servicing capacity beyond the lands currently designated, as you are aware, the planning context for the Master Plan was established through ROPA 38.

The Regional Municipality of Halton



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The Water and Wastewater Master Plan study was based on best planning estimates (June 2011) provided by Halton Region. As such, the study area was limited to existing and planned expansions of the urban boundary. Please refer to Section 3 of the Master Plan Report for further details on the planning context of the study.

The Master Plan did consider long term servicing impact when developing the preferred servicing strategies, however, the focus of recommendations are based on the 2031 needs. In terms of servicing considerations and strategies beyond 2031, please see Section 17.3 of the Report for further details on the implications of longer term servicing requirements.

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Manager of Water Planning

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John Duong, P.Eng.
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Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
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Oakville ON L6M 3L1**

October 7, 2011

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The Regional Municipality of Halton

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Halton Region



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Halton Region



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Chris Hamel, P.Eng.
Project Manager

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**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

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Halton Region



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Manager of Water Planning

Halton Region



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AECOM Canada Ltd.



Chris Hamel, P.Eng.
Project Manager

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**Public Works
Water and Wastewater Services
1151 Bronte Road
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October 7, 2011

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**Public Works
Water and Wastewater Services
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October 7, 2011

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**Public Works
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The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

We recognize your concerns with the Preferred Water Servicing Strategy for Milton, in particular, the phased transfer of some existing groundwater servicing areas to lake based servicing.

The Regional Municipality of Halton

At this time, both groundwater and lake based systems are utilized to support water servicing in Milton. With a finite groundwater supply and no increased water takings being proposed, there are significant limitations in the existing system to sustain future servicing needs in Milton. Following a thorough evaluation and decision making process, the Preferred Water Servicing Strategy was selected. In conjunction with optimization of the Kelso Water Purification Plant and ongoing water efficiency measures, the strategy involves the transfer of some groundwater servicing areas, predominately employment areas, to the South Halton Lake Based system. Existing system conditions and alternative water solutions that led to this strategy are comprehensively documented in Sections 7 through 9 of the Master Plan Class EA Study Report. Please refer to Section 13 of the Report for details on the Preferred Water Servicing Strategy.

The next steps in the Master Planning process are as follows:

- Address any comments received post-filing
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
- Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule
- Key follow on studies would be undertaken as required

We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,

Halton Region



David Simpson, P.Eng.
Manager of Water Planning

Halton Region



John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.



Chris Hamel, P.Eng.
Project Manager

encl. Notice of Completion



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

We appreciate the input you provided during the second round of public consultation via email on February 24th regarding the Georgetown Water Servicing Strategy.

The Regional Municipality of Halton



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Water and Wastewater Services
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The Preferred Water Servicing Strategy for Georgetown is to maintain the core area of Georgetown on the existing groundwater system. The growth projected in the new service area of Georgetown Southwest requires that lake-based water supply be provided. This will be done by extending infrastructure servicing from the South Halton Lake Based System. In addition, in order to maintain groundwater/wastewater effluent balance in the community, existing areas in Georgetown South, generally south of the Silver Creek, will be transferred to the lake-based water supply. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report. Please refer to Section 13 for details on the Preferred Water Servicing Strategy.

The next steps in the Master Planning process are as follows:

- Address any comments received post-filing
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl.



**Public Works
Water and Wastewater Services
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Oakville ON L6M 3L1**

October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

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Further to our letter dated, March 16, 2011, we can respond in greater detail to your comments regarding Milton's Wastewater Treatment Plant (WWTP).

The Regional Municipality of Halton



**Public Works
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The Milton WWTP plant was originally commissioned in 1949 and expanded in five subsequent stages with the last stage in May 2006. Earlier studies have concluded that the capacity of the existing Milton WWTP is insufficient to meet the long term needs within its catchment area. Previous Master Plans also concluded that the plant was unable to support the growth in Milton due to limited stream capacity for assimilation of discharges.

In light of the expected growth within the next 20 years, the Milton WWTP is planned to continue servicing some of the town's existing areas in order to maximize use of the existing infrastructure (existing WWTP), while excess flows will be diverted to the Mid-Halton drainage area where flows will be serviced by the South Halton Lake Based Wastewater System. This option is considered to be the most favourable as it addresses build out requirements, maximizes lake based infrastructure, provides an opportunity for staging, provides system redundancy, and does not require an update to the existing plant.

Preliminary consideration was given to the concept of decommissioning the Milton WWTP and sending all flows to a Lake Ontario based treatment facility. This concept was screened out based on concerns regarding water balance in the community, desire to maintain base flows in the stream from the existing plant and comments regarding these same concerns from Conservation Halton.

Existing system conditions and alternative wastewater solutions that led to this strategy are documented in Sections 10 through 12 of the Master Plan Report. Details on the Preferred Wastewater Servicing Strategy are provided in Section 14 of the Master Plan Report.

The next steps in the Master Planning process are as follows:

- Address any comments received post-filing
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
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Sincerely,

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

encl.

Halton Region

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John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

A handwritten signature in blue ink that reads "Chris Hamel".

Chris Hamel, P.Eng.
Project Manager



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

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As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

Further to our letter dated, March 16, 2011, we can respond in greater detail to your comments regarding servicing as it relates to your property located at 8283 Esquesing Line in Milton.

The Regional Municipality of Halton



**Public Works
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Upon review of the preferred servicing strategy within near proximity to your property, we note the following:

The water project (ID No. 6650) planned for this area includes the construction of a new 400mm Zone ML5 watermain along a new road alignment from Esquesing Line to Boston Church Road. This project is planned to be constructed between 2022 and 2026. The wastewater project (ID No. 6564) planned for this area includes a 525mm wastewater sewer on a new alignment from Esquesing to Third Line. This project is planned to be constructed between 2022 and 2026.

The Water and Wastewater Master Servicing Plan has been staged to occur within the 20 year time period to sustain future growth and infrastructure requirements within the Region. Water and wastewater servicing has been timed to coordinate with expected growth between 2011 and 2031. Construction will be staged to accommodate this projected population and employment growth in a timely manner.

Please refer to Section 16 of the Master Plan Report for the final Regional Water and Wastewater Capital Program.

The next steps in the Master Planning process are as follows:

- Address any comments received post-filing
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We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning
encl.

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

The Regional Municipality of Halton



**Public Works
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October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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Further to our letter dated March 16, 2011, we can respond in greater detail to your comments regarding Milton's Water Servicing Strategy. At this time, both groundwater and lake based systems are utilized to support water servicing in Milton. With a finite groundwater supply and no increased water takings being proposed, there are significant limitations in the existing system to sustain future servicing needs in Milton. Following a thorough evaluation and decision making

The Regional Municipality of Halton



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process, the Preferred Water Servicing Strategy was selected. In conjunction with optimization of the Kelso Water Purification Plant and ongoing water efficiency measures, the strategy involves the transfer of some groundwater servicing areas, predominately employment areas, to the South Halton Lake Based system. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report. Please refer to Section 13 of the Report for details on the Preferred Water Servicing Strategy.

Halton Region employs state of the art water treatment processes to ensure that the water quality is consistent across the entire serviced Region. Halton continually meets or exceeds all standards as set out by the *Safe Drinking Water Act* and *O. Reg 169/03 - Ontario Drinking Water Standards* in each of its drinking water systems, both ground and lake water based. Annually, Halton issues a drinking water quality report for each drinking water system that summarises all test results. Current drinking water quality reports can be found on Halton's external web site www.halton.ca.

We would like to reassure you of our high water quality standards and commitment to providing the best possible servicing for the Town of Milton while fostering sustainable growth within the Region.

The next steps in the Master Planning process are as follows:

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning
encl.

Halton Region

John Duong, P.Eng.
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AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
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October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

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As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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Further to our e-mail on June 28th, we have reviewed all comments received and can respond in greater detail to your comments regarding the Acton groundwater servicing strategy, and more specifically the water quality at the Prospect Park Well Field.

The Acton Preferred Water Servicing Strategy will maintain the existing and future service areas on groundwater servicing while increasing groundwater capacity at the Fourth Line and Prospect

The Regional Municipality of Halton



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Park Well Fields, as well as providing additional new groundwater capacity. Future treatment redundancy would be provided through centralization of the Davidson and Fourth Line Well Systems. Existing system conditions and alternative water solutions that have led to this strategy are documented in Sections 7 through 9 of the Master Plan Report.

As part of the Sustainable Halton Master Plan process, a groundwater study was undertaken to examine the current and future sustainability of Halton Hill's water supply. This study involved a detailed field program to gain an understanding of the local hydrogeological environment. The results of the analysis were incorporated into the development and evaluation of alternative servicing options and strategies for the Acton community. A comprehensive evaluation and decision making process was undertaken to identify the preferred servicing strategy and is presented in Section 9 of the Report.

As previously mentioned in our previous e-mail, raw and treated water quality are tested at least weekly for E. Coli in accordance with the sampling program. Sampling is also conducted within the distribution system for bacteriological indicators and evidence of sustained chlorine residuals.

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

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Chris Hamel, P.Eng.
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October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

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The Regional Municipality of Halton



**Public Works
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The Preferred Servicing Strategy has been reviewed and several areas have been identified where the planned infrastructure may potentially fall on the CN right-of-way. The Region recognizes that there will be railway track crossings and mitigative actions will be taken to ensure minimal impacts to the existing CN Railway tracks. We are committed to working with CN Railways to ensure that the Master Plan phased infrastructure is constructed with consideration to CN rights-of-way.

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

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John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

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Chris Hamel, P.Eng.
Project Manager

encl.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
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October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

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Further to our letter dated, March 16, 2011, we can respond in greater detail to your comments regarding Milton's Preferred Water and Wastewater Servicing Strategy, in particular the Milton Water Servicing Strategy, the Milton WWTP, and employment lands.

The Regional Municipality of Halton

Milton Transfer to Lake Based System

At this time, both groundwater and lake based systems are utilized to support water servicing in Milton. With a finite groundwater supply and no increased water takings being proposed, there are significant limitations in the existing system to sustain future servicing needs in Milton. Following a thorough evaluation and decision making process, the Preferred Water Servicing Strategy was selected. In conjunction with optimization of the Kelso Water Purification Plant and ongoing water efficiency measures, the strategy involves the transfer of some groundwater servicing areas, predominately employment areas, to the South Halton Lake Based system. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report. Please refer to Section 13 of the Report for details on the Preferred Water Servicing Strategy.

Milton WWTP

The Milton Preferred Wastewater Servicing Strategy includes the diversion of some wastewater flows from the Milton Wastewater Treatment Plant (WWTP) to the Mid-Halton WWTP. This diversion is recommended, in order to manage capacity constraints at the existing Milton WWTP and take advantage of available wastewater capacity conditions at the Mid-Halton WWTP. Flows beyond the current rated capacity of the Milton WWTP will be diverted south via the Fulton Street Wastewater Pumping Station. Existing system conditions and alternative wastewater solutions that led to this strategy are documented in Sections 10 through 12 of the Master Plan Report. Please refer to Section 14 of the Master Plan Report for details on the Preferred Wastewater Servicing Strategy.

Employment Lands

New employment lands have been identified under the Sustainable Halton Plan. To meet provincial targets, new Greenfield lands created through the Sustainable Halton process have been planned to meet the target of an average 50 people/jobs per hectare.

The next steps in the Master Planning process are as follows:

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Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

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Halton Region

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John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

A handwritten signature in blue ink that reads "Chris Hamel".

Chris Hamel, P.Eng.
Project Manager



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

Further to our letter dated, March 16, 2011, we have reviewed all comments received and can respond in greater detail to your comments regarding the Acton groundwater servicing strategy, and more specifically your concerns regarding increased water takings from Prospect Park.

The Regional Municipality of Halton

The Acton Preferred Water Servicing Strategy will maintain the existing and future service areas on groundwater servicing while increasing groundwater capacity at the Fourth Line and Prospect Park Well Fields, as well as providing additional new groundwater capacity. Future treatment redundancy would be provided through centralization of the Davidson and Fourth Line Well Systems. Existing system conditions and alternative water solutions that have led to this strategy are documented in Sections 7 through 9 of the Master Plan Report.

As part of the Sustainable Halton Master Plan process, a groundwater study was undertaken to examine the current and future sustainability of Halton Hill's water supply. This study involved a detailed field program to gain an understanding of the local hydrogeological environment. The results of the analysis were incorporated into the development and evaluation of alternative servicing options and strategies for the Acton community. A comprehensive evaluation and decision making process was undertaken to identify the preferred servicing strategy and is presented in Section 9 of the Report.

Components of the Acton Preferred Water Servicing Strategy for Acton are as follows:

- Increased water taking at Prospect Park and Fourth Line Well Fields.
- Expansion of Prospect Park WPP.
- Third Line Reservoir to be expanded.
- New north Acton Well Supply.
- New Standby Well at 4th Line.
- Centralized Treatment at Third Line Reservoir
- Local infrastructure to be upgraded through intensification program to meet demand projections caused by intensification.

The next steps in the Master Planning process are as follows:

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- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
- Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule
- Key follow on studies would be undertaken as required

We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

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The Regional Municipality of Halton

HEAD OFFICE 1151 Bronte Road, Oakville, Ontario L6M 3L1 • Tel: 905-825-6000 • Toll free: 1-866-442-5866 • TTY: 905-827-9833 • www.halton.ca



**Public Works
Water and Wastewater Services
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October 7, 2011

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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

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Further to our letter dated, March 16, 2011, we have reviewed all comments received and can respond in greater detail to your comments regarding Milton's Preferred Water Servicing Strategy, in particular, groundwater and lake based servicing for Old Milton.

The Regional Municipality of Halton



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At this time, both groundwater and lake based systems are utilized to support water servicing in Milton. With a finite groundwater supply and no increased water takings being proposed, there are significant limitations in the existing system to sustain future servicing needs in Milton. Following a thorough evaluation and decision making process, the Preferred Water Servicing Strategy was selected. In conjunction with optimization of the Kelso Water Purification Plant and ongoing water efficiency measures, the strategy involves the transfer of some groundwater servicing areas, predominately employment areas, to the South Halton Lake Based system. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report.

Optimization at the Kelso WPP will minimize future transfer of existing groundwater service areas to lake based servicing. A capacity upgrade is planned for the Kelso Well, as well as a planned decommission of the Walkers Line Well. The Preferred Water Servicing Strategy intends for much of Milton’s historic areas to remain on groundwater while providing service for future intensification demands. Please refer to Section 13 of the Master Plan Report for details on the Preferred Water Servicing Strategy.

The next steps in the Master Planning process are as follows:

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Manager of Water Planning

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Chris Hamel, P.Eng.
Project Manager

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October 7, 2011

Heather Levecque
Manager, Consultation Unit
Aboriginal Relations and Ministry Partnerships Division
Ministry of Aboriginal Affairs
160 Bloor St. East, 9th Floor
Toronto, ON M7A 2E6

Dear Ms. Levecque,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

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As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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We have noted that you have identified that the Master Plan study area may fall within an area where First Nations may have existing or asserted rights or claims in MAA's land claims process or litigation that could be impacted by the project. Please review the Preferred Water and Wastewater Servicing Strategy presented in the final Master Plan Class EA Report. Should you have any questions or concerns for any areas of interest, we will be happy to engage with you in further consultation.

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- Address any comments received post-filing
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Manager of Water Planning

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October 7, 2011

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As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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Halton Region continues to implement and support water efficiency efforts through its ongoing toilet rebate program, rain barrel sales, residential and commercial irrigation system optimization, pilot program, distribution system leak detection , summer outdoor water use

The Regional Municipality of Halton

reduction program, and education and outreach including the annual Halton Children's Water Festival.

Halton's water efficiency program is integral to the long term planning of the water and wastewater systems. This current water efficiency program employs the following four-pronged approach:

- Technical measures such as water distribution system leak detection, and residential and commercial irrigation system optimization,
- Regulatory measures such as waterworks by-law to address summer outdoor water use peak demands,
- Financial measures including high efficiency toilet rebates and a consumption-based water rate structure,
- Marketing, community outreach and education such as rain barrel sales events to promote capture and storage of rain water for use in gardens, encouraging use of drought-tolerant plantings and avoiding excessive lawn watering, and co-hosting the annual Halton Children's Water Festival.

Through analysis of the Region's water efficiency program and design criteria, a 5% reduction (average day demand reduction of ~ 16 litres per capita per day) in residential growth water use for the Region moving forward was utilized as a foundation in the Master Plan. This target was based on savings achieved through anticipated use of high efficiency front loading clothes washers in new homes and anticipated changes to the building code for low flush toilets (6.0 L to 4.8 L toilets).

It is anticipated that the base water demand may be further decreased as existing residents continue to retrofit their homes by replacing old fixtures such as washing machines, shower heads and whole-home humidifiers with high efficiency models. As well, the Region continues to target summer peak demand through promotion of the Outdoor Water Use Strategy and by encouraging residential and commercial property owners to reduce overwatering of landscapes through irrigation system optimization.

Halton continues to annually monitor the Regional water system supply capacity/demand and compare actual growth uptake with the theoretical growth projections. In addition, the overall water servicing strategy will be reviewed every five years in accordance with updated population and employment estimates. In doing so, the water efficiency strategy can be revised to respond to changes in residential and employment water use with Halton Region.

We appreciate your concerns, suggestions, and efforts supporting water conservation.

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**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

Further to our letter dated, March 16, 2011, we have reviewed all comments received and can respond in greater detail to your comments regarding growth mandated by the province, the

The Regional Municipality of Halton



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Georgetown servicing plan, and the proposed transfer of some Georgetown areas to the lake based system.

The Preferred Water Servicing Strategy for Georgetown is to maintain the core area of Georgetown on the existing groundwater system. The growth projected in the new service area of Georgetown Southwest requires that lake-based water supply be provided. This will be done by extending infrastructure servicing from the South Halton Lake Based System. In addition, in order to maintain groundwater/wastewater effluent balance in the community, existing areas in Georgetown South, generally south of the Silver Creek, will be transferred to the lake-based water supply. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report. Please refer to Section 13 for details on the Preferred Water Servicing Strategy.

To support the groundwater system, an increase in water taking from Cedarvale and/or Lindsay Court well fields is required, while the Princess Anne Well will be maintained. Groundwater modeling was undertaken as part of the Master Plan Study to determine the approximate groundwater increases that will be required for Georgetown to accommodate the existing groundwater serviced areas beyond the current Permit To Take Water (PTTW).

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MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

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As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

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Further to our letter dated March 16, 2011, we can respond in greater detail to your comments regarding Milton's Water and Wastewater Servicing Strategy as it relates to the Timberlea neighbourhood.

The Regional Municipality of Halton

At this time, both groundwater and lake based systems are utilized to support water servicing in Milton. With a finite groundwater supply and no increased water takings being proposed, there are significant limitations in the existing system to sustain future servicing needs in Milton. Following a thorough evaluation and decision making process, the Preferred Water Servicing Strategy was selected. In conjunction with optimization of the Kelso Water Purification Plant and ongoing water efficiency measures, the strategy involves the transfer of some groundwater servicing areas, predominately employment areas, in Milton to the South Halton Lake Based system. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report. Please refer to Section 13 of the Report for details on the Preferred Water Servicing Strategy.

Timberlea Growth Area

The Timberlea neighborhood is part of the intensification area in Milton. Future demands in Timberlea cannot currently be met by the existing groundwater systems at Kelso and Walker's Line. In order to meet the expected demands, the Kelso well supply and treatment system will be optimized and upgraded while conservation efforts continue. Subsequently, Walker's Line well field will eventually be decommissioned; while portions (predominately employment areas) of Milton will be transferred to the lake based servicing system. In doing so, it is believed that sufficient ground water supply capacity can be maintained to service the Timberlea area, although, supply and demand will be annually monitored.

Lake Based Phasing

Water and wastewater servicing has been timed to coordinate with growth expected to occur within these areas from, 2011 to 2031. Construction has been staged based on census data used to project population and employment growth for specific areas within the Region. Please see Section 16 of the Master Plan Report for details on the Water Capital Program.

Conservation Efforts

Water use trends were considered in the development of the Master Servicing Plan and are referenced in the Master Plan Class EA Report. While ongoing water efficiency programs and water use guidelines encourage the sustainable use of water, Milton's groundwater supply is finite and insufficient to support future needs alone. As a result, both lake based and groundwater based sources are still necessary to meet the increased water demands in the future.

Lake and Ground Based Water Quality

Halton Region employs state of the art water treatment processes to ensure that the water quality is consistent across the entire serviced Region. Halton continually meets or exceeds all standards as set out by the *Safe Drinking Water Act* and *O. Reg 169/03 - Ontario Drinking Water Standards* in each of its drinking water systems, both ground and lake water based. Annually,



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Halton issues a drinking water quality report for each drinking water system that summarises all test results. Current drinking water quality reports can be found on Halton’s external web site www.halton.ca.

Redirection of Sewage to Mid-Halton WWTP

The Preferred Wastewater Servicing Strategy involves diverting flows beyond the current rated capacity for the Milton WWTP south to the Mid-Halton WWTP. Existing system conditions and alternative wastewater solutions that led to this strategy are documented in Sections 10 through 12 of the Master Plan Report. The Fulton Wastewater Pumping Station will be utilized to pump flows south. Please refer to Section 14 of the Master Plan Report for details on the Preferred Wastewater Servicing Strategy.

We would like to reassure you of our high water quality standards and our commitment to providing the best possible servicing for the Town of Milton while also fostering sustainable growth within the Region.

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We appreciate the comments you provided during the second round of public consultation via fax on March 11th regarding the Region's bulk water stations.

The Regional Municipality of Halton



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As an integrated component of this Master Plan, development and evaluation of the bulk water facilities strategy including recommendations on existing sites as well as new sites has been undertaken. The bulk water facilities location assessment and a summary of the recommendations are provided in Section 17 of the Report. Also please refer to the Appendices of the Report for the evaluation process undertaken for the selection of the preferred bulk water stations.

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Oakville ON L6M 3L1

October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has now completed the Water and Wastewater Master Plan Documentation. In response to your email from March 4, 2011, please note that in the Master Plan report Timberlea residents will not be transferred from groundwater to the lake-based system at this time.

The final Master Plan report will be made available to the public for 30 calendar days starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the Notice of Completion enclosed with this letter.

As for the health concerns you raised in your email, I understand that the Health Department has provided you with information on a number of occasions related to the safety of water fluoridation. The Health Department continues to conclude that the high-level evidence (i.e., evidence based on literature that has been carefully and systematically reviewed and shown to be of the highest quality) indicates that fluoridation of drinking water at 0.7 ppm is both safe and effective.

Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com). For any health-related concerns, please contact the Halton Region Health Department by dialing 311 or 905-825-6000.

Sincerely,

Halton Region

Halton Region

AECOM Canada Ltd.

David Simpson, P.Eng.
Manager of Water Planning

John Duong, P.Eng.
Manager of Wastewater Planning

Chris Hamel, P.Eng.
Project Manager

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

We have reviewed all comments received and can respond in greater detail to your comments regarding Milton's Preferred Water Servicing Strategy, in particular, the phased transfer of some existing groundwater servicing areas to lake based servicing.

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

At this time, both groundwater and lake based systems are utilized to support water servicing in Milton. With a finite groundwater supply and no increased water takings being proposed, there are significant limitations in the existing system to sustain future servicing needs in Milton. Following a thorough evaluation and decision making process, the Preferred Water Servicing Strategy was selected. In conjunction with optimization of the Kelso Water Purification Plant and ongoing water efficiency measures, the strategy involves the transfer of some groundwater servicing areas, predominately employment areas, to the South Halton Lake Based system. Existing system conditions and alternative water solutions that led to this strategy are documented in Sections 7 through 9 of the Master Plan Report. Please refer to Section 13 of the Report for details on the Preferred Water Servicing Strategy.

Most of Milton's industrial, commercial, and institutional (ICI) areas are already being serviced by the lake based system. As part of the servicing strategy, the remaining groundwater serviced ICI areas in Milton have been reviewed for possible conversion to lake based water servicing first before switching over residential areas. This analysis was considered in the preparation of the preferred servicing strategy.

We would like to reassure you of our high water quality standards and our commitment to providing the best possible servicing for the Town of Milton while fostering sustainable growth within the Region.

The next steps in the Master Planning process are as follows:

- Address any comments received post-filing
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
- Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule
- Key follow on studies would be undertaken as required

We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,

The Regional Municipality of Halton



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

encl.

Halton Region

A handwritten signature in black ink that reads "John Duong".

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

A handwritten signature in blue ink that reads "Chris Hamel".

Chris Hamel, P.Eng.
Project Manager

TECHNICAL ADVISORY COMMITTEE MEETINGS

#1



Serving our Communities and our Environment

Sustainable Halton Water & Wastewater Master Plan

Agenda

1. Introductions & Meeting Objectives
2. Water & Wastewater MP Overview
3. Planning Projections & Land Use Assumptions
4. Preliminary Servicing Concepts Overview
5. Intensification
6. Critical Path & Next Steps
7. Discussion Items

Meeting Objectives

- Bring awareness that the project has started;
- Outline study process and objectives;
- Provide opportunity to participate in the planning process;
- Discuss the preliminary development of servicing concepts;
- Receive input and answer questions.

Objective of the Master Plan Study

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and business in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for 780,000 people & 390,000 jobs by 2031
 - A growth of 300,000 people & 170,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Develop a capital implementation program for the preferred servicing strategy.

Relationship to previous Halton Master Plans

- 2002 Water and Wastewater Master Plan
 - Preferred water and wastewater servicing strategies for the South Halton system. Based on 2016 BPEs and urban area buildout scenario
- 2004 Water and Wastewater Technical Report
 - Development Charges Update – updated TSZ, BPE's, cost estimates, design criteria, and projected land use requirements for development to 2021
- 2008 Water and Wastewater South Halton Master Plan
 - Updated BPE's used to review servicing strategies and update cost estimates to support new Development Charges By-Law. Land use projections to 2021 with limited intensification detail
- Sustainable Halton Water and Wastewater Master Plan (SHWWMP)
 - Region wide servicing and costing strategy to 2031 to meet the Places to Grow growth requirements
 - SHWWMP will support a new Development Charges By-law

Master Plan Context

- Master Plan: high level review of servicing with a conceptual/order of magnitude accuracy of costs
- Master Plan will be filed under Approach #2 under the MEA Class EA Approach for Master Planning
 - Meets Phases 1 and 2 of the Class EA process but also fulfills requirements for Schedule A, A+ and B projects
 - Provides supporting documentation for any Schedule C projects, however these projects would still need to meet Phases 3 and 4 prior to filing for public review

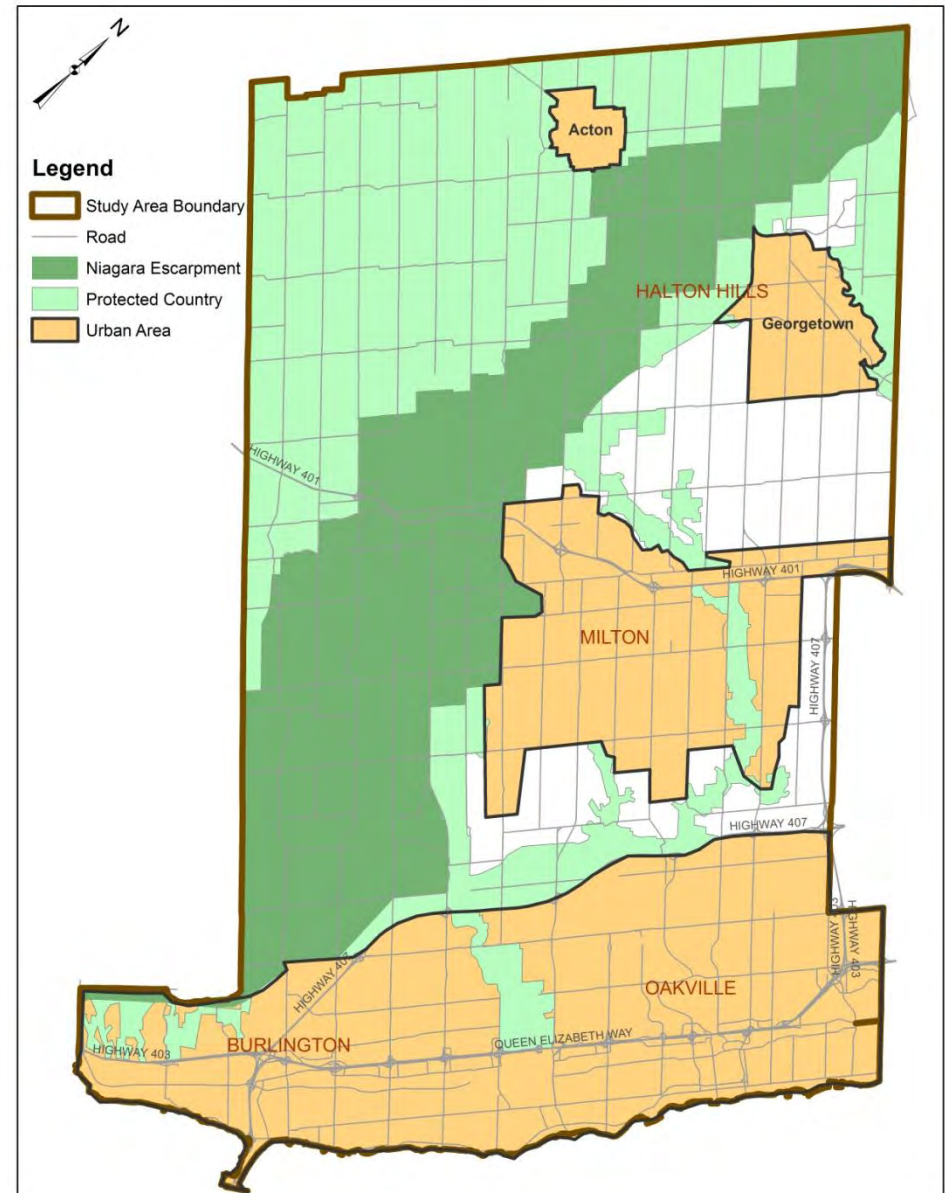
Master Plan Deliverables

- Final Comprehensive Master Plan Document
- Preferred Servicing Strategy
- Capital Implementation Plan
- Clear identification of follow-on study requirements
- Clarity for support of follow-on Class EA studies
- Project Fact Sheets
- Integrated Documents under Sustainable Halton
- Potential Other Related Documents:
 - DC technical report
 - Allocation programs

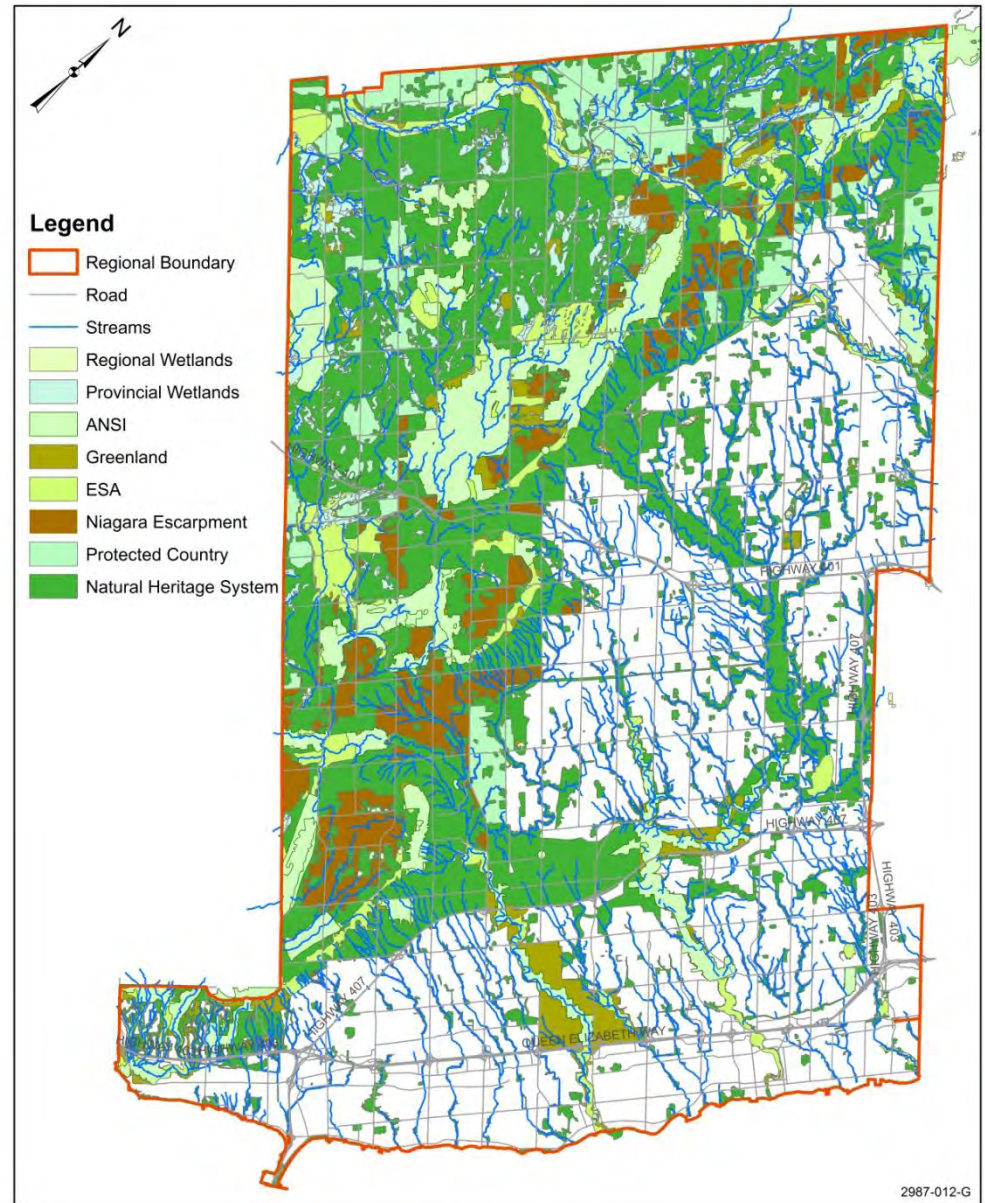
Study Area

Study Area boundary includes the Municipalities of:

- City of Burlington
- Town of Oakville
- Town of Milton
- Town of Halton Hills



Existing Environmental Features



Guiding Principles and Policies

Service our Communities

- Provide safe and uninterrupted water supply for all Halton serviced residents and businesses for both domestic uses and firefighting
- Provide wastewater system capacity and performance

Protect our environment

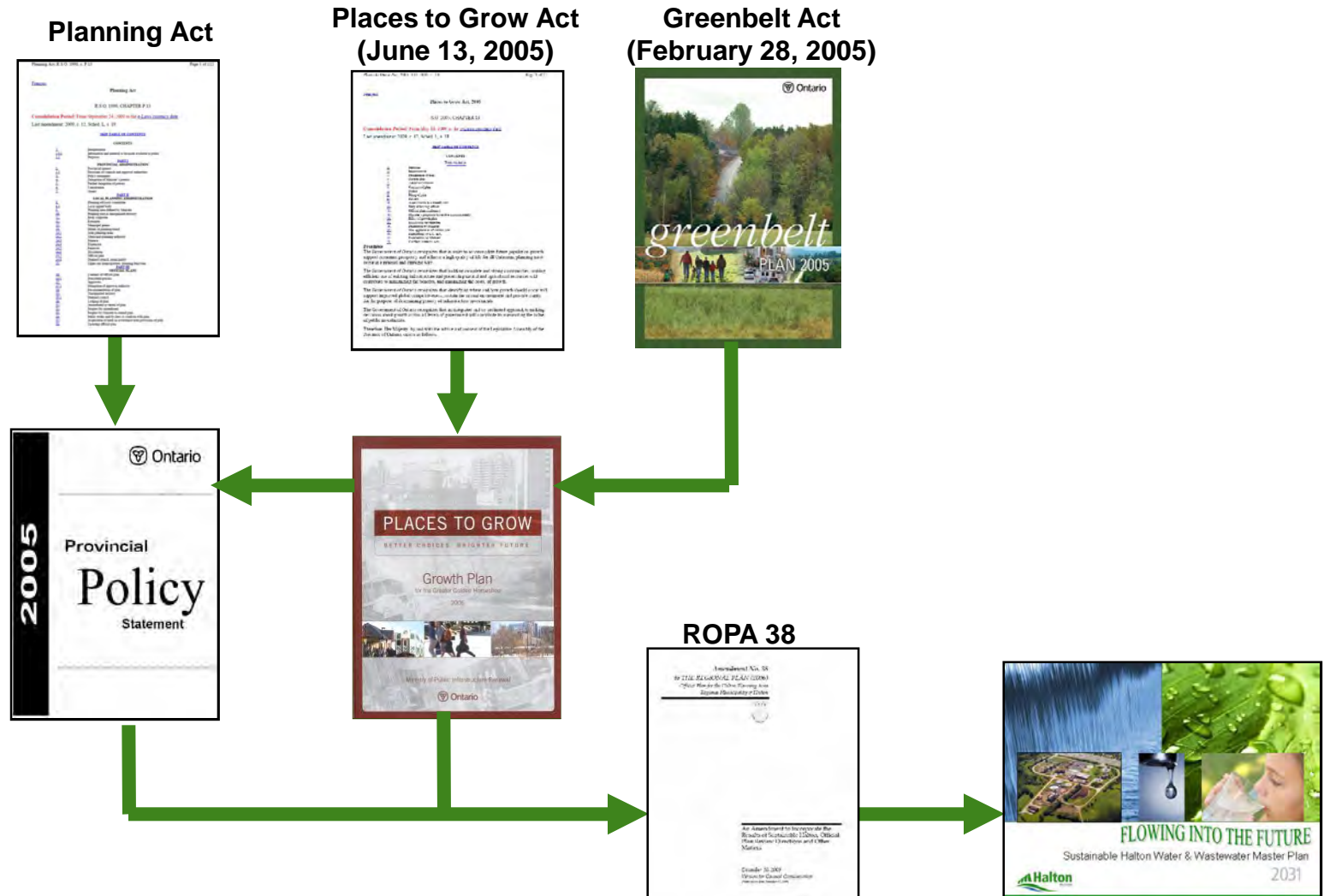
- Ensure that wastewater is treated effectively

Sustainability

- Balance economic, social and environmental goals
- Ensure that the Region's Infrastructure is kept in a state of good repair

Meet all regulatory requirements

Legislative and Policy Drivers

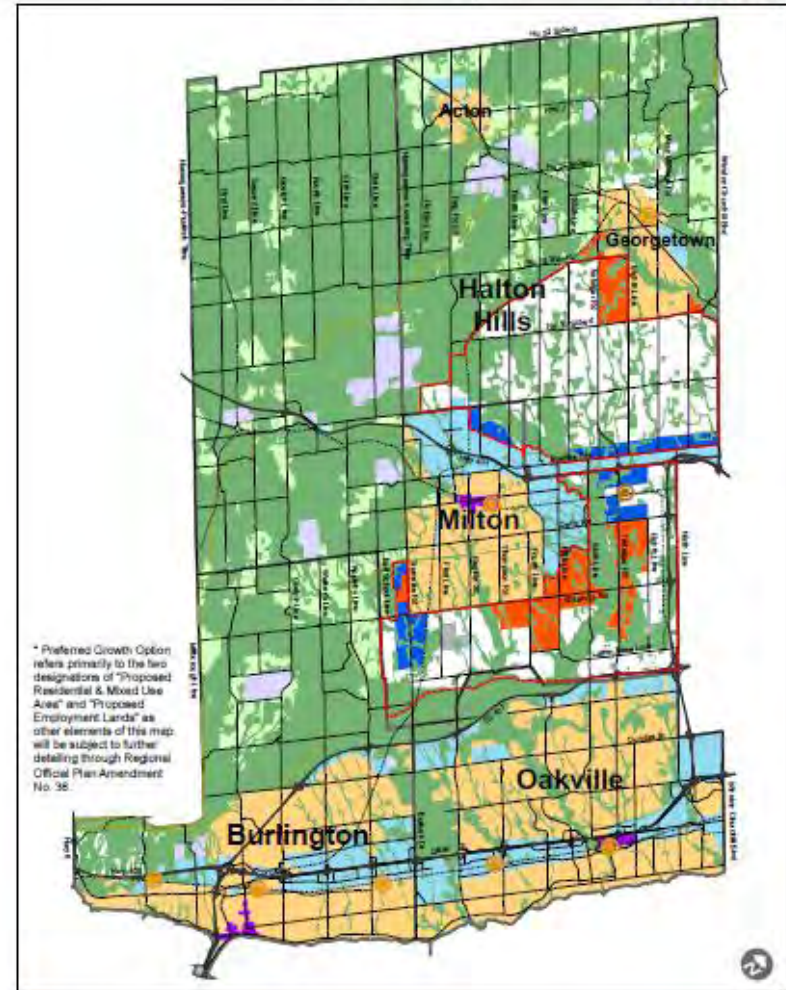


Sustainable Halton Preferred Land Use Plan

2021-2031

Service Area Growth

- 118,000 people (approx. 71,000 greenfield & 47,000 intensification)
- 53,000 employees



Date: 10.06.09

Planning Projections (BPE Data Sept 2009)

POPULATION PROJECTIONS	2006	2011	2015	2016	2021	2031
Oakville	165,613	176,916	194,869	197,666	220,364	245,664
Burlington	164,400	174,000	173,945	175,800	178,600	185,400
Milton	53,900	81,700	112,047	120,300	157,200	228,900
Halton Hills	55,300	57,900	60,595	61,700	64,700	90,200
Halton Total	439,213	490,516	541,456	555,466	620,864	750,165

EMPLOYMENT PROJECTIONS	2006	2011	2015	2016	2021	2031
Oakville	82,100	91,000	102,040	104,800	119,000	127,200
Burlington	88,400	96,200	99,400	100,200	103,600	105,900
Milton	27,600	41,200	58,400	62,700	80,700	114,400
Halton Hills	19,600	23,700	27,940	29,000	32,400	42,500
Halton Total	217,700	252,100	287,780	296,700	335,700	390,000

Note: draft projections currently reflect undercount. BPE data currently being updated

W&WW Servicing Concepts Evaluation Criteria

CRITERIA	CRITERIA DESCRIPTION
Environmental Impact	<ul style="list-style-type: none"> - Describes the potential impacts of the option on the natural environment, proximity to existing natural features and designations including but not limited to Greenbelt, Niagara Escarpment, ESAs, ANSIs, vegetation, woodlands, wildlife, aquatic resources and fisheries - Highlights requirement for major environmental crossings, deep sewers, development through environmental designated areas, and requirements for mitigative action
Socio-Economic Impact	<ul style="list-style-type: none"> - Describes potential impact to socio-economic factors such as impact on residents, archaeological/heritage resources, aesthetics, noise, dust, vibrations, traffic disruptions during construction
Regional Policies and Guidelines	<ul style="list-style-type: none"> - Compliance with Regional Guidelines and Policies
Legal/Jurisdictional Impact	<ul style="list-style-type: none"> - Highlights any land requirement issues and agency concerns that may arise from servicing option related to project alignments, land acquisition, planning permits, crossings etc
Technical Impact	<ul style="list-style-type: none"> - Describes any overall technical advantage/disadvantage to an option related to: <ul style="list-style-type: none"> - capacity requirements and level of service - performance under power outage conditions - alignments that can maximize a service area - utilization of existing infrastructure - Describes difficulty of construction (construction in limited areas, crossings, protection of utilities, trees or structures) <ul style="list-style-type: none"> - are existing infrastructure upgrades required? - what level of security of water supply/transmission does the option provide? - does the option require SPS vs deep sewers?

W&WW Servicing Concepts Evaluation Criteria

CRITERIA	CRITERIA DESCRIPTION
Phasing Impact	<ul style="list-style-type: none"> - Describes the ability for staged growth - Describes ability to maximize use of existing or planned infrastructure. - Describes ability of incremental extensions of infrastructure as growth progresses - Ability to balance infrastructure costs with staged level of growth (high-level comment) - Do early phases of growth require large up front costs?
Sizing Impact	<ul style="list-style-type: none"> - Describes impact on the sizing of planned and existing infrastructure - Highlights trunk infrastructure that potentially should be oversized to benefit future growth. - Makes comment on whether growth areas will need to be serviced by existing infrastructure, 2021 Master Plan infrastructure or new - Highlights sizing difference of common projects
Constructability Impact	<ul style="list-style-type: none"> - Describes technical level required for construction of projects - Highlights potential need for deep pipe construction, creek/railway/highway crossings, alignment challenges, potential challenges during construction through existing built-up areas - Construction of projects that can be coordinated with road construction
Build out Impact	<ul style="list-style-type: none"> - Highlights potential opportunities/constraints to servicing build out - Projects and Strategies that offer flexibility of servicing the mature state growth (post 2031)
Implementation and Operability Impact	<ul style="list-style-type: none"> - Describes post-construction impacts such as operation and maintenance costs and requirements
Servicing Integration	<ul style="list-style-type: none"> - Describes potential impacts related to opportunity or requirement for integrated planning, design, construction with other servicing such as bridge construction, road improvements etc
Financial Impact	<ul style="list-style-type: none"> - Describes the Capital Cost and O & M costs relative to other options - Considers construction costs for new infrastructure and for upgrades to existing system - Highlights major projects that differ from other options that significantly contribute to the Capital Cost

Water Servicing Concepts Evaluation

Purpose & Methodology

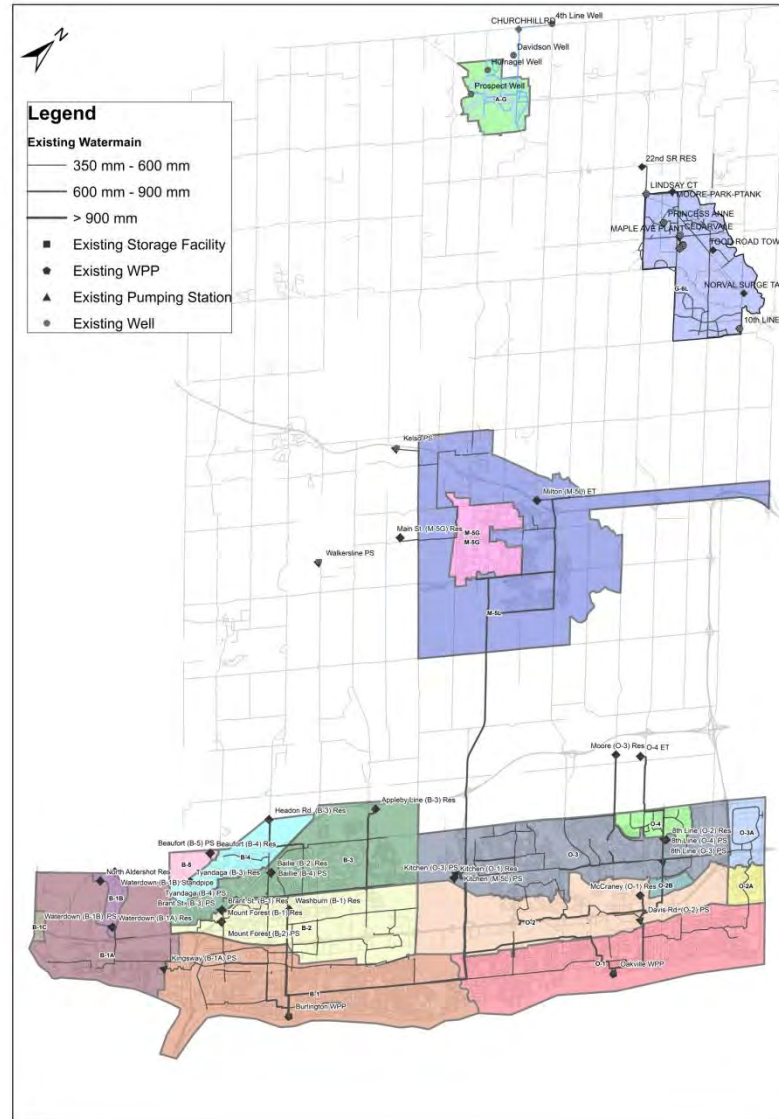
- Evaluate Average Day, Max Day and Peak Hour flows and supply
- Consider system security and redundancy
- Maintain adequate levels of service (pressure/flow for domestic use and firefighting)
- Ensure operating considerations are addressed
- Continue to meet all MOE requirements
- Use the model to assess impact of new growth demands (based on projected BPEs) on system infrastructure:
 - Capacity
 - Pressure
 - Fire Flow
- Analyze pressure zone boundaries
- Develop/evaluate servicing strategies

Water Servicing Concepts Evaluation

Objectives

- 2031 servicing vision exercise
- Consider multiple servicing concepts
- High level evaluation of concepts
- Screen out servicing concepts
- Select preferred servicing concepts for further detailed evaluation

Existing Water Infrastructure



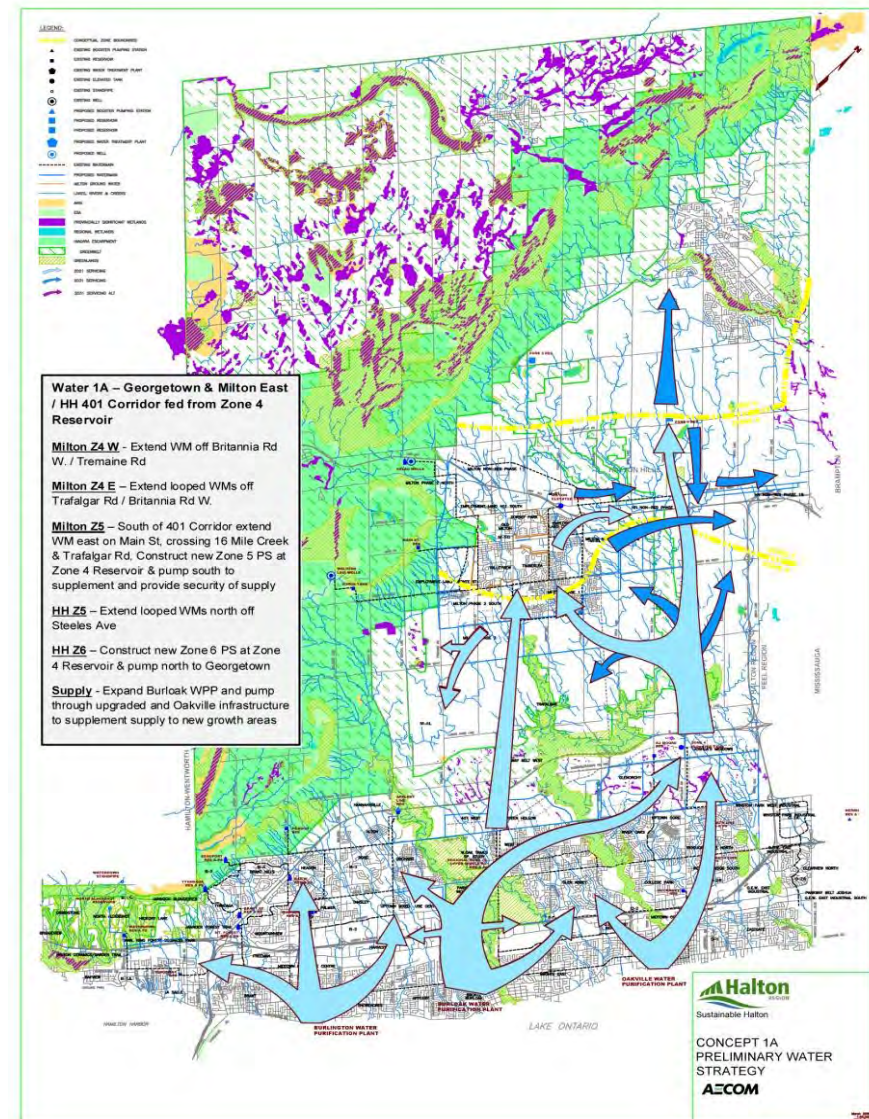
2031 South Water Servicing Concepts

- Concept 1 - Build off planned 2021 infrastructure
- Concept 2 – Construct 3rd spine feedermain
- Concept 3 – Inter-regional Peel supply

South Lake Water Servicing Concepts

Concept 1A

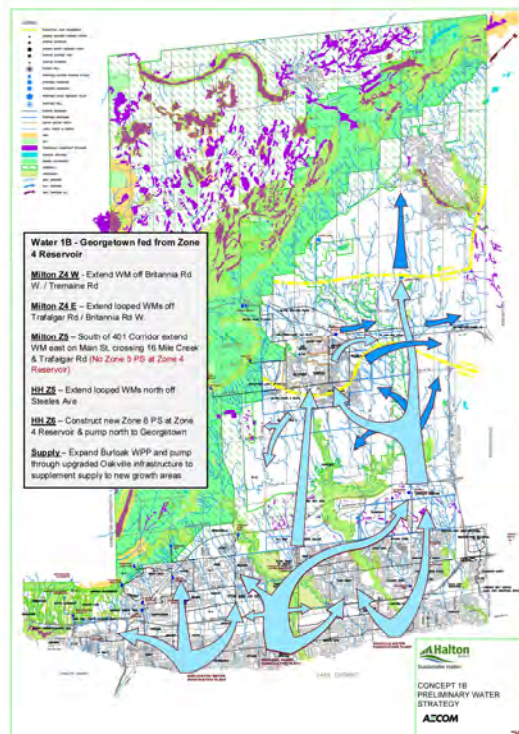
- Georgetown & Milton East/HH 401 Corridor fed from Zone 4 Reservoir



South Lake Water Servicing Concepts

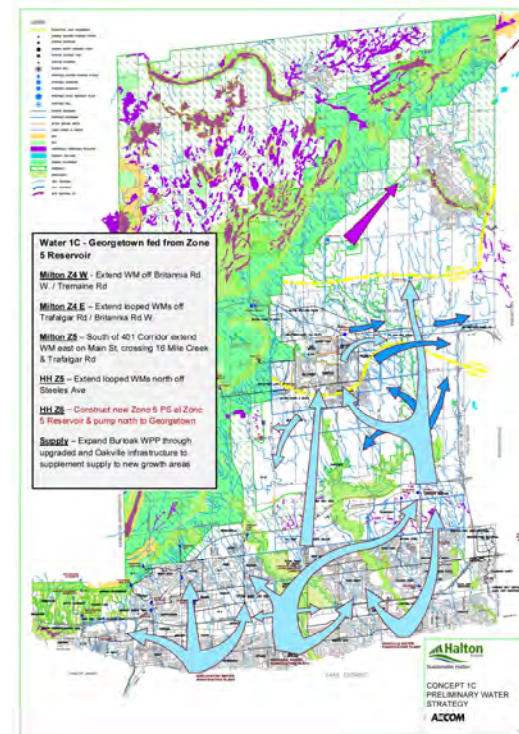
Concept 1B

- Georgetown fed from Zone 4 Reservoir, Alternate Zone 5 Servicing



Concept 1C

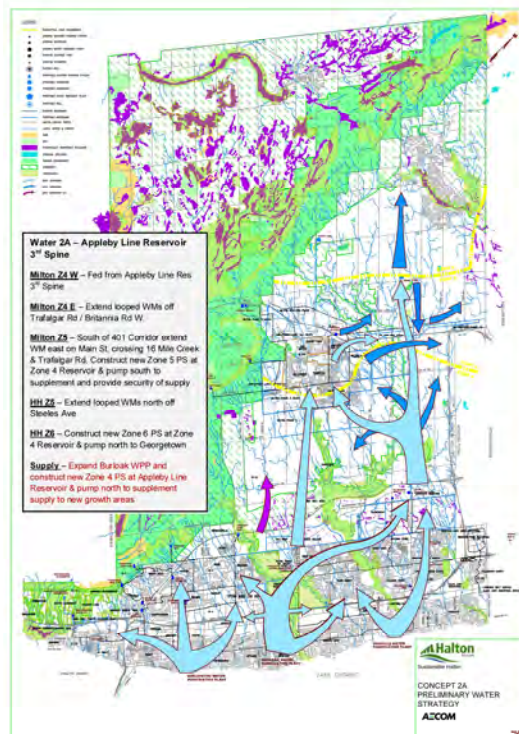
- Georgetown fed from Zone 5 Reservoir



South Lake Water Servicing Concepts

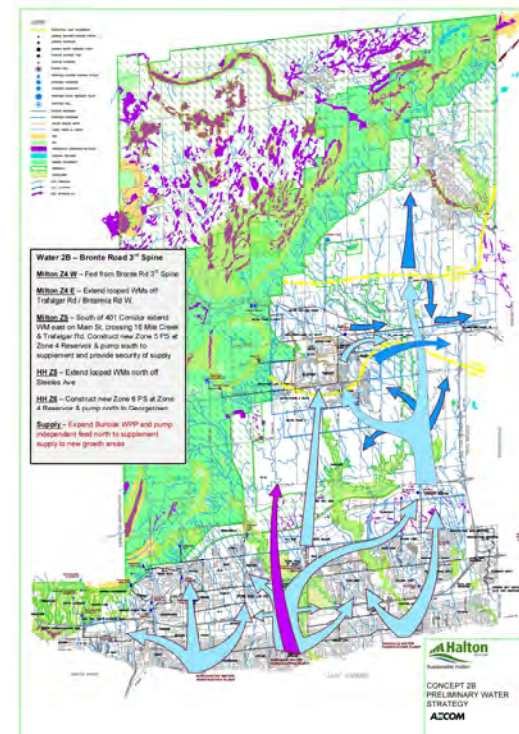
Concept 2A

- Appleby Line Reservoir 3rd Spine



Concept 2B

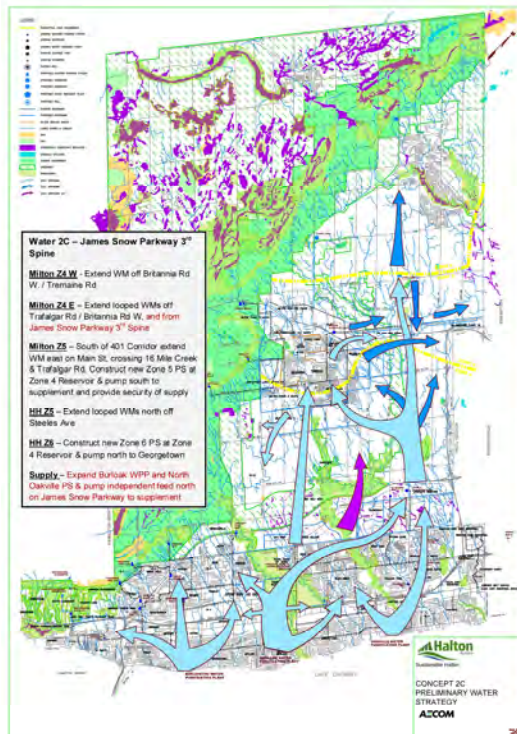
- Bronte 3rd Spine



South Lake Water Servicing Concepts

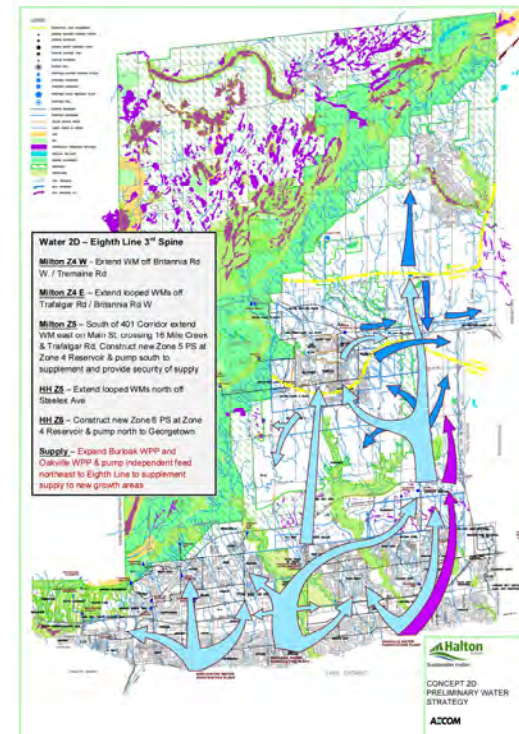
Concept 2C

- James Snow Parkway 3rd Spine



Concept 2D

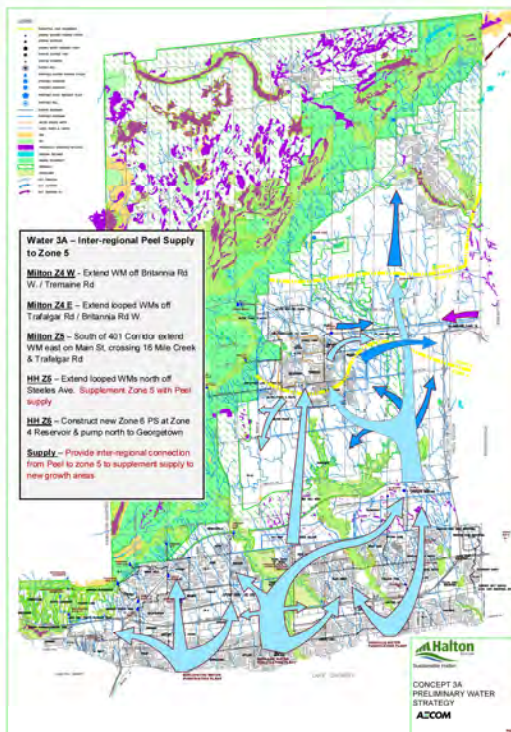
- Eighth Line 3rd Spine



South Lake Water Servicing Concepts

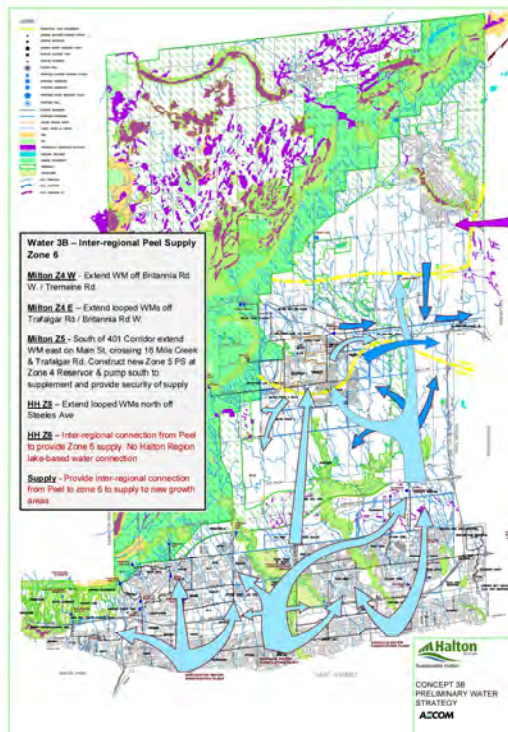
Concept 3A

- Inter-regional Peel Supply to Zone 5



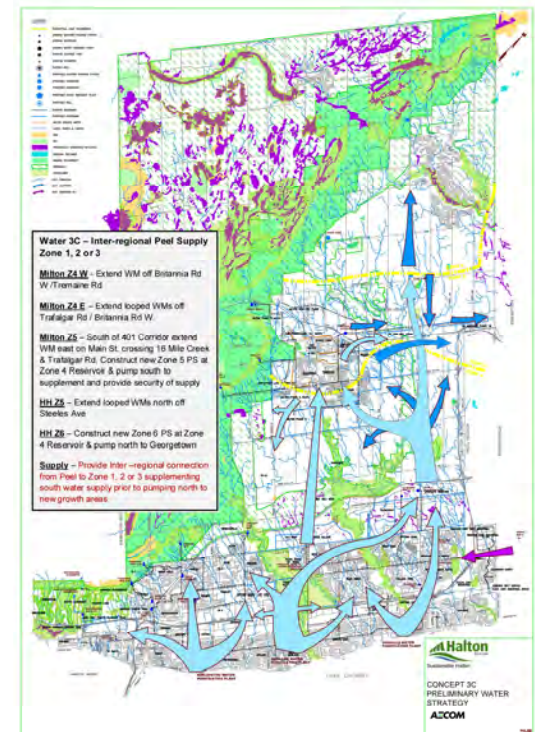
Concept 3B

- Inter-regional Peel Supply to Zone 6



Concept 3C

- Inter-regional Peel Supply to Zone 1, 2 or 3



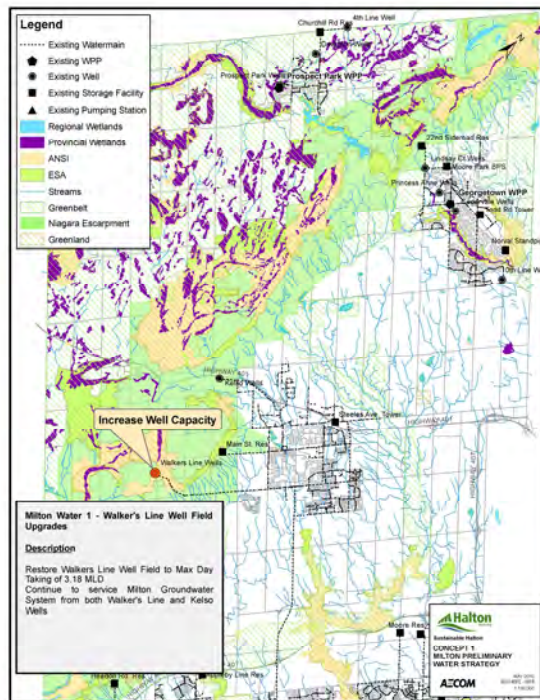
2031 Milton Water Servicing Concepts

- Concept 1 – Walker’s Line Wellfield Upgrades
- Concept 2 – Kelso Wellfield Upgrades
- Concept 3 – Transfer Areas to Lake Based System

Milton Groundwater Servicing Concepts

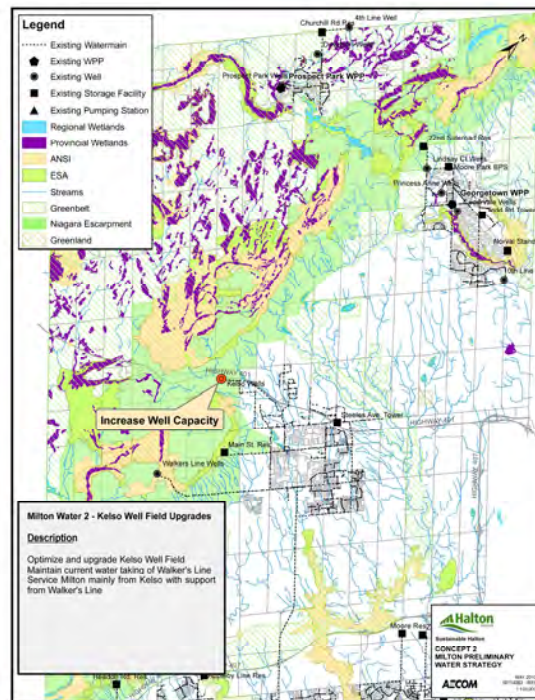
Concept 1

- Walkers Line Wellfield Upgrades



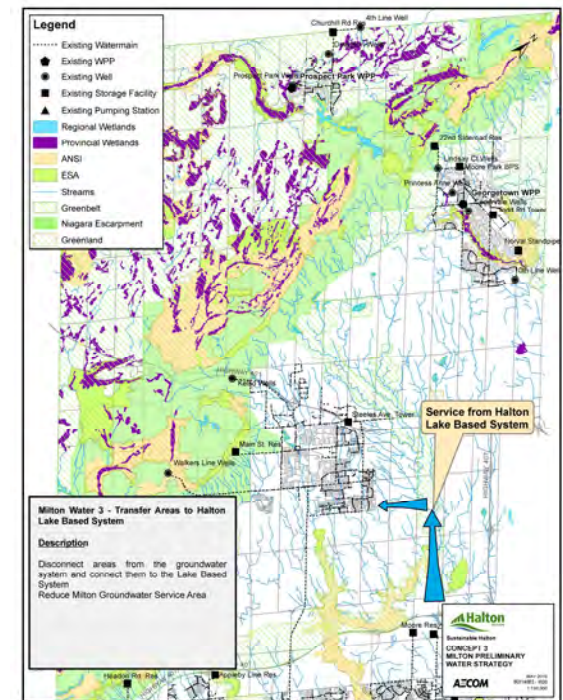
Concept 2

- Kelso Wellfield Upgrades



Concept 3

- Transfer Areas to Lake Based System



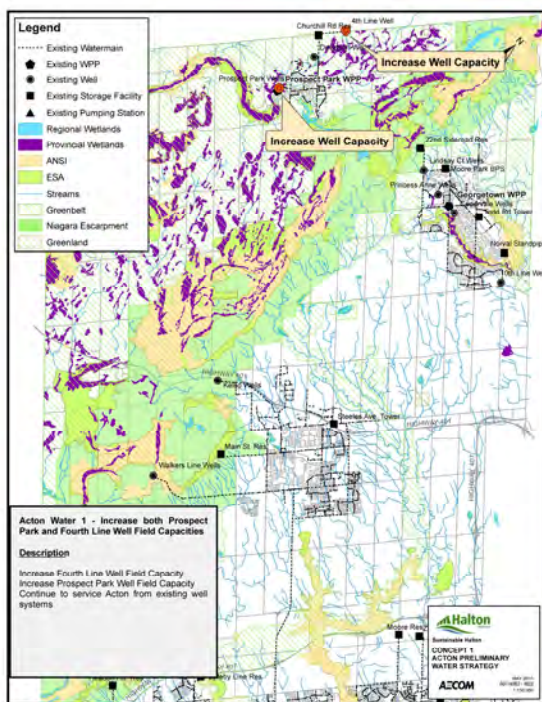
2031 Acton Water Servicing Concepts

- Concept 1 – Increase Prospect Park & Fourth Line Wellfield Capacities
 - Concept 2 – Increase Fourth Line & Construct New Wellfield
 - Concept 3 – Increase Prospect Park & Construct New Wellfield
 - Concept 4 - Increase Prospect Park & Fourth Line Wellfield & Construct New Wellfield
 - Concept 5 – Municipal System Interconnection
 - Concept 6 – Increase Prospect Park & Fourth Line Well & Implement Aquifer Recharge Program
- Treatment requirements will need to be considered for all concepts

Acton Water Servicing Concepts

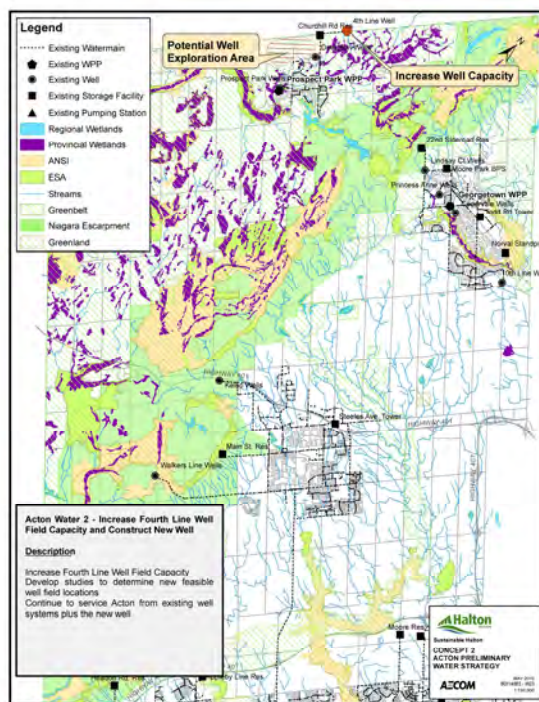
Concept 1

- Increase both Prospect Park and Fourth Line Wellfield Capacities



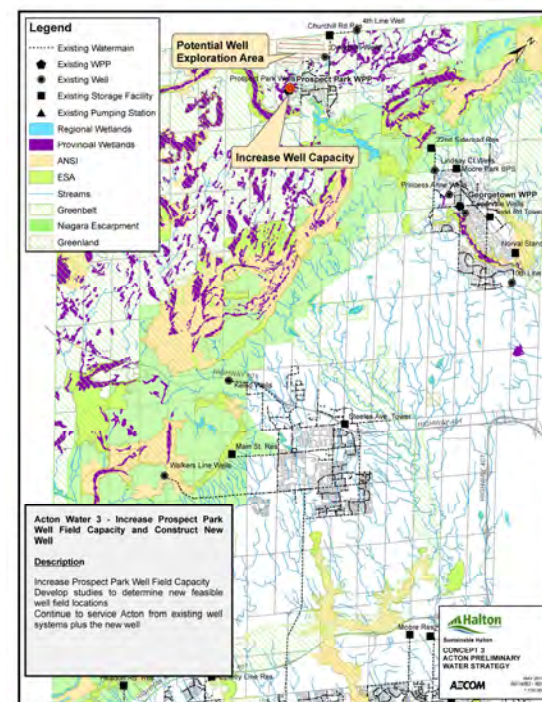
Concept 2

- Increase Fourth Line Wellfield
- Construct a new wellfield



Concept 3

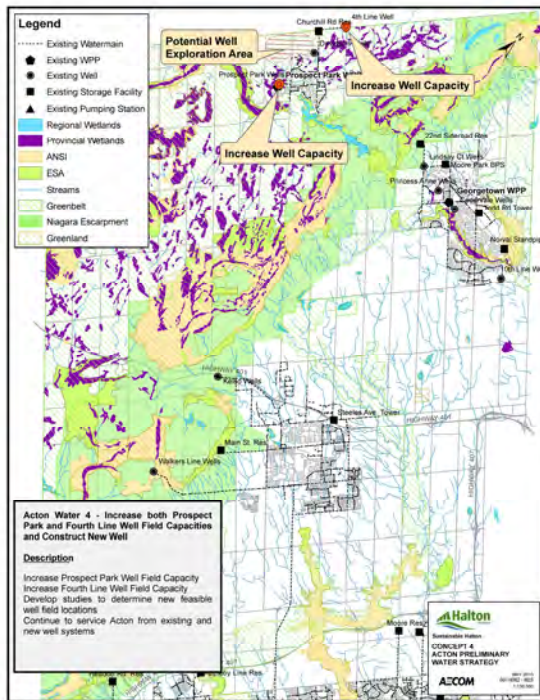
- Increase Prospect Park Wellfield
- Construct a new wellfield



Acton Water Servicing Concepts

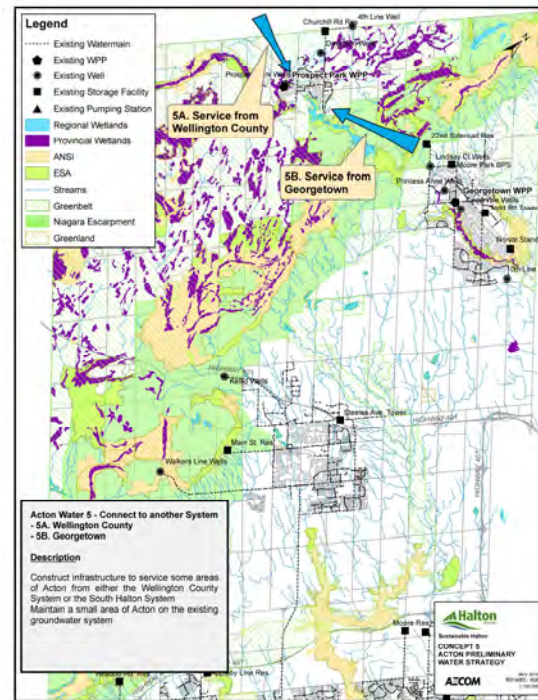
Concept 4

- Increase both Prospect Park and Fourth Line Wellfield Capacities
- Construct a new wellfield



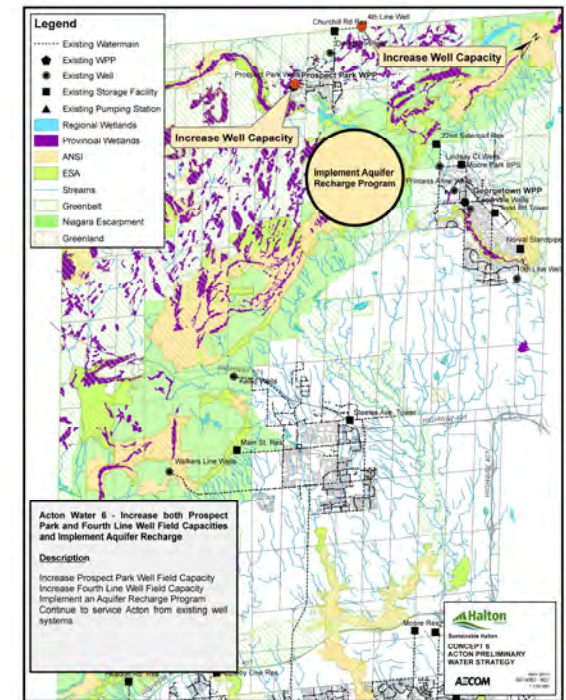
Concept 5

- Municipal System Interconnection



Concept 6

- Increase both Prospect Park and Fourth Line Wellfield Capacities
- Implement an Aquifer Recharge Program



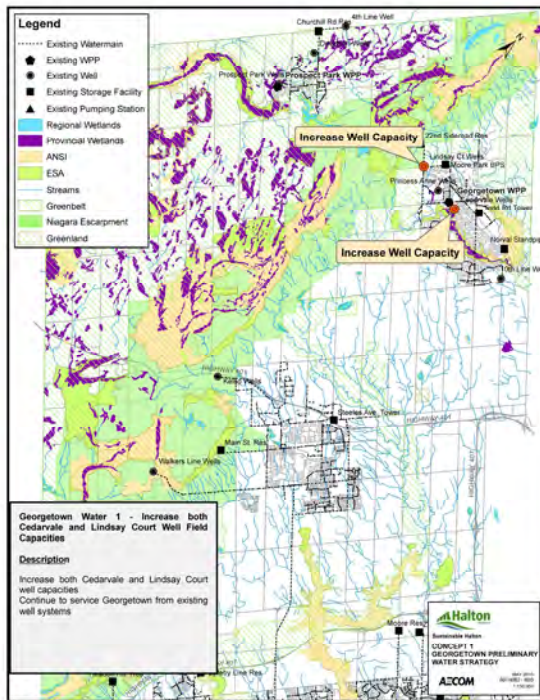
2031 Georgetown Water Servicing Concepts

- Concept 1 – Increase Lindsay Court & Cedarvale Wellfield Capacities
- Concept 2 – Increase Cedarvale & Construct New Wellfield
- Concept 3 – Increase Lindsay Court & Construct New Wellfield
- Concept 4 – Increase Lindsay Court & Cedarvale Wellfield & Construct New Wellfield
- Concept 5 – Municipal System Interconnection
- Concept 6 – Increase Lindsay Court & Cedarvale Wellfield & Implement Aquifer Recharge Program
 - Treatment requirements will need to be considered for all concepts

Georgetown Water Servicing Concepts

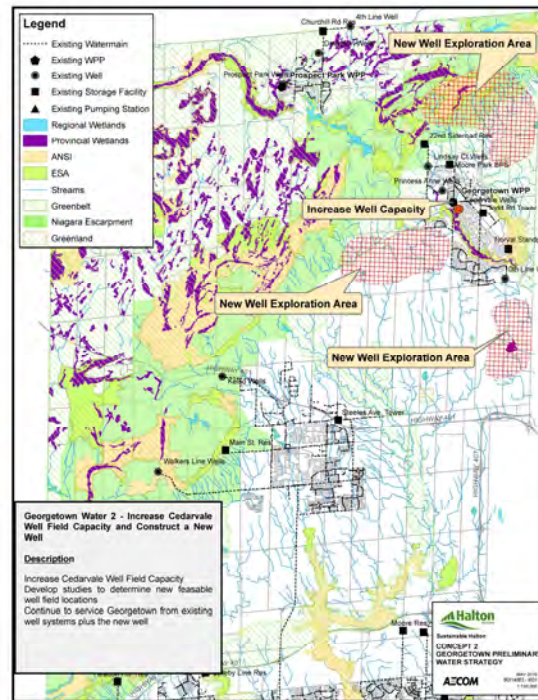
Concept 1

- Increase both Lindsay Court and Cedarvale Well Field Capacities



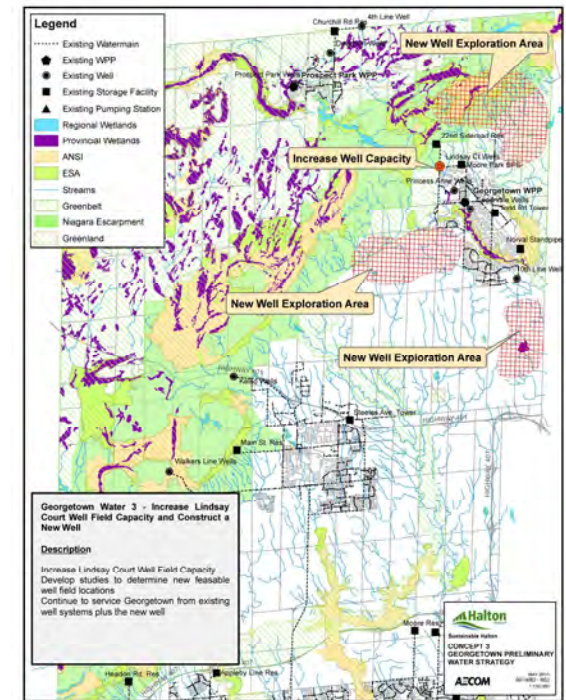
Concept 2

- Increase Cedarvale
- Construct a New Wellfield



Concept 3

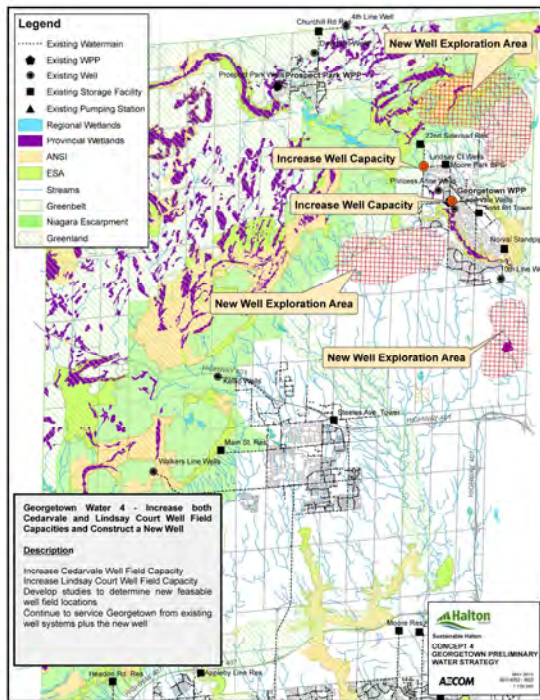
- Increase Lindsay Court
- Construct a New Wellfield



Georgetown Water Servicing Concepts

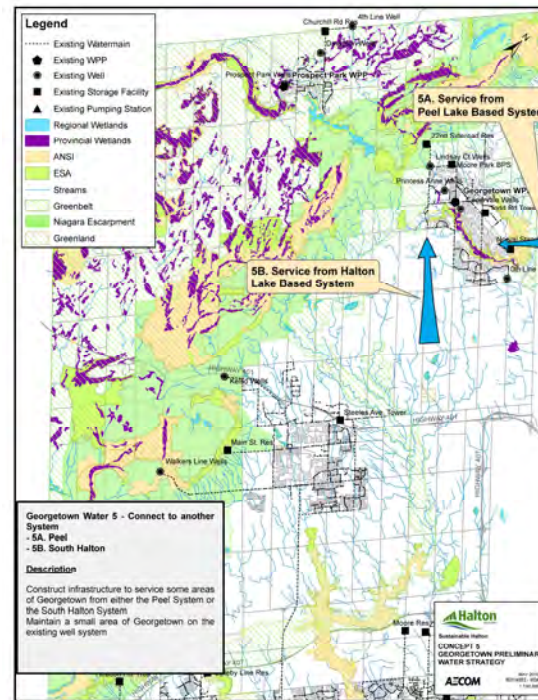
Concept 4

- Increase both Lindsay Court and Cedarvale Wellfield Capacities
- Construct a new wellfield



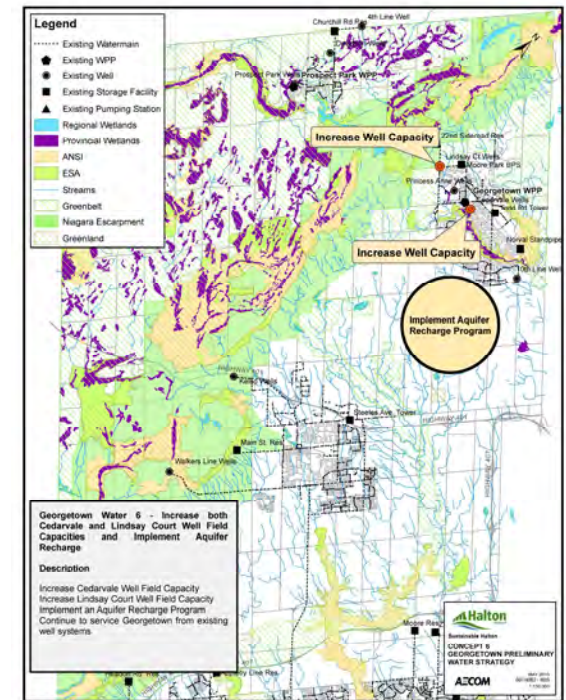
Concept 5

- Municipal System Interconnection



Concept 6

- Increase both Lindsay Court and Cedarvale Wellfield Capacities
- Implement an Aquifer Recharge Program

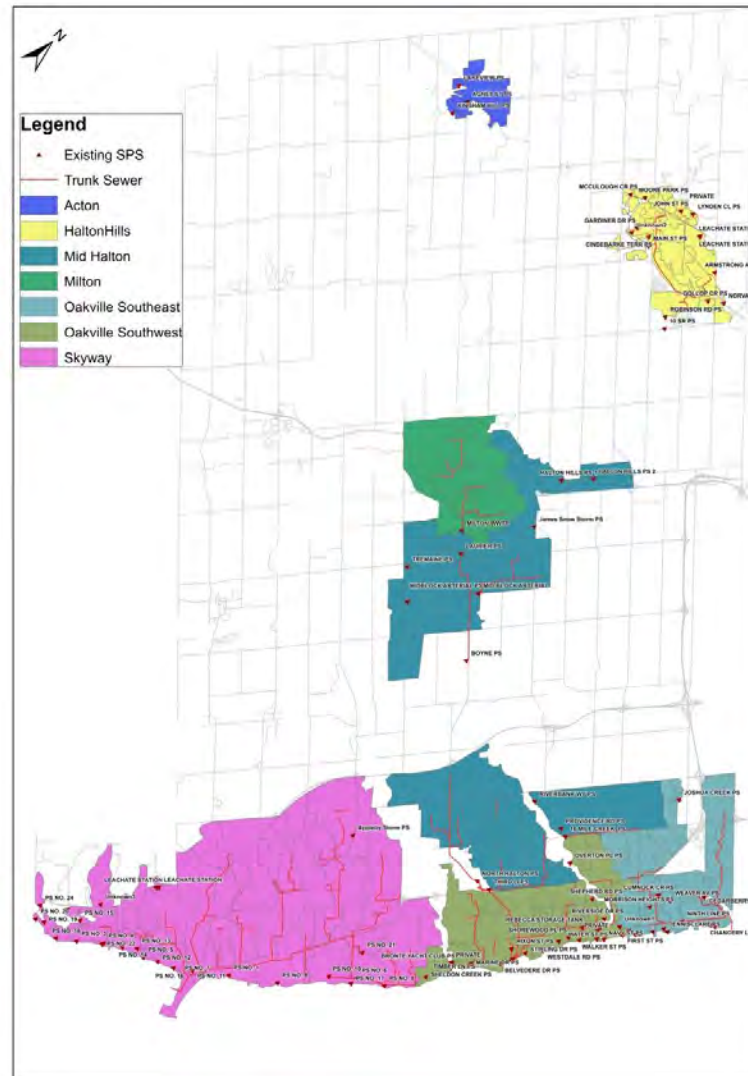


Wastewater Servicing Evaluation Purpose & Methodology

- Meet MOE effluent quality requirements
- Evaluate growth and inflow and infiltration
- Consider system security and redundancy
- Ensure that operating considerations are addressed



Existing Wastewater Infrastructure



Wastewater Servicing Concepts Evaluation

Objectives

- 2031 servicing vision exercise
- Consider multiple servicing concepts
- High level evaluation of concepts
- Screen out servicing concepts
- Select preferred servicing concepts for further detailed evaluation

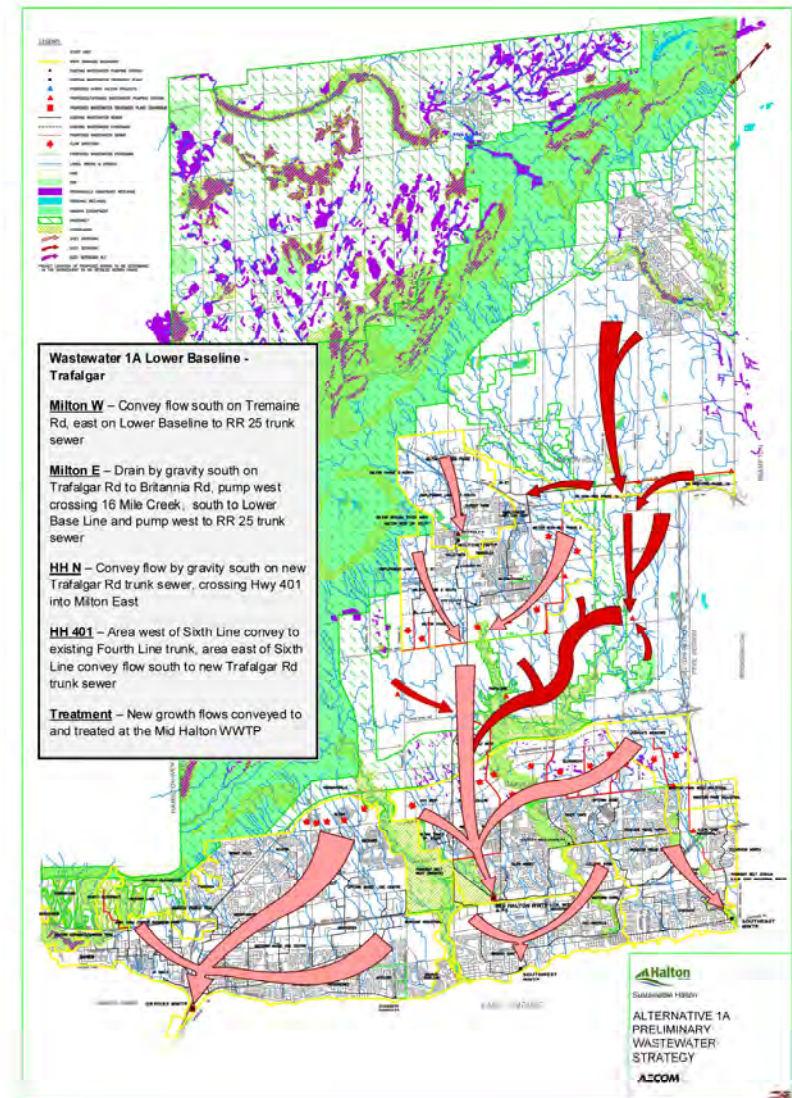
2031 South Wastewater Servicing Concepts

- Concept 1 – Lower Baseline
- Concept 2 – Britannia Road
- Concept 3 – North Oakville
- Concept 4 – Peel Inter-regional

South Lake Wastewater Servicing Concepts

Concept 1A Lower Baseline

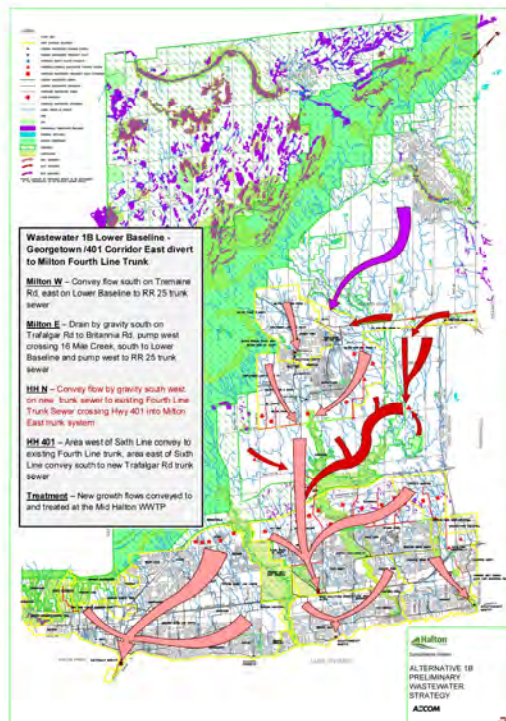
- Trafalgar



South Lake Wastewater Servicing Concepts

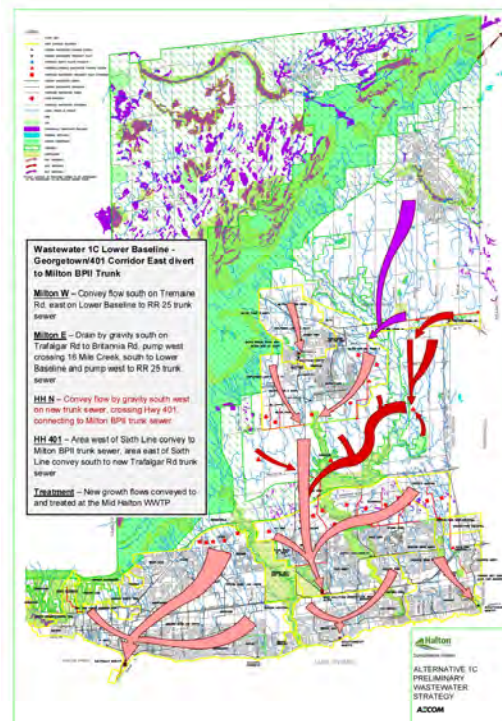
Concept 1B

- Georgetown/401 Corridor East divert to Milton Fourth Line Trunk



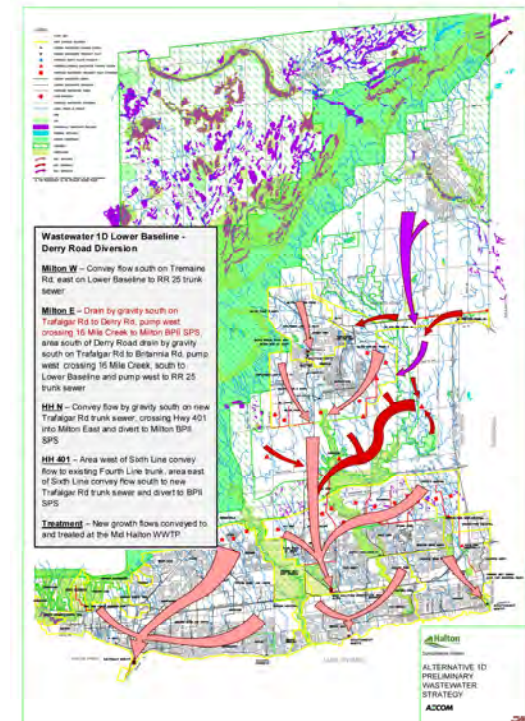
Concept 1C

- Georgetown/401 Corridor East divert to Milton BPII Trunk



Concept 1D

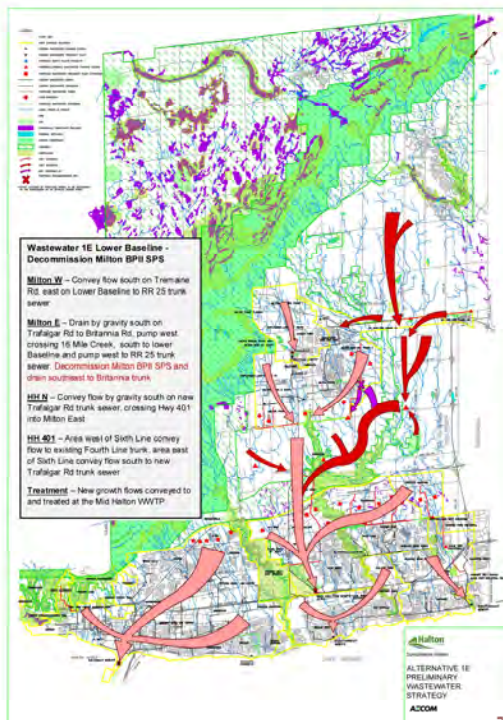
- Derry Road Diversion



South Lake Wastewater Servicing Concepts

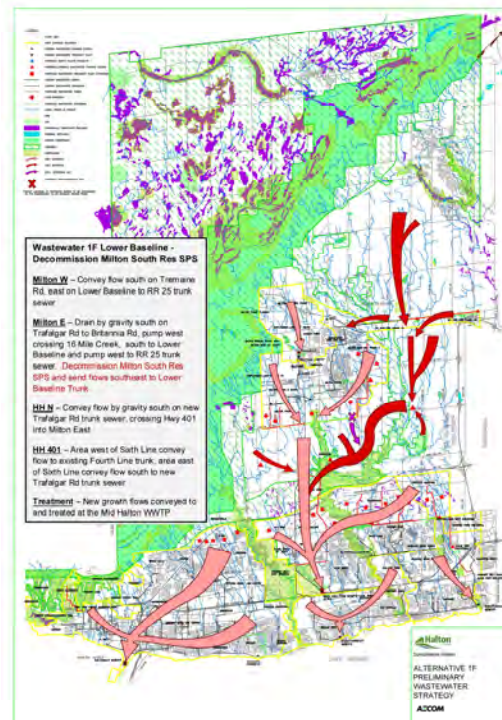
Concept 1E

- Decommission Milton BPII SPS



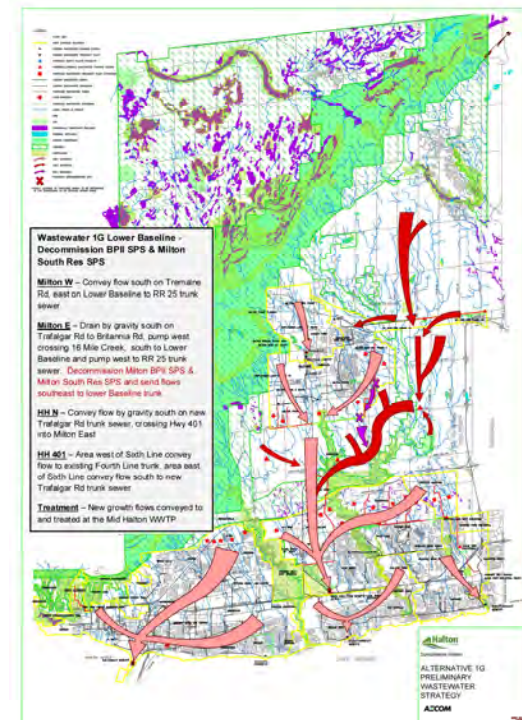
Concept 1F

- Decommission Milton South Res SPS



Concept 1G

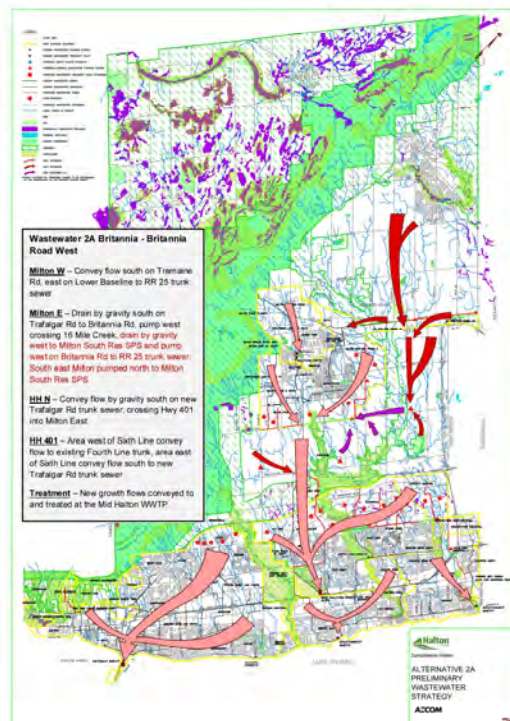
- Decommission BPII SPS & Milton South Res SPS



South Lake Wastewater Servicing Concepts

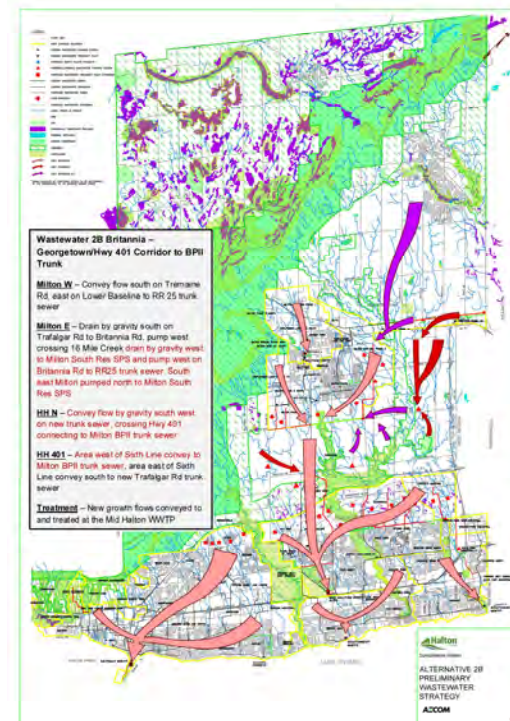
Concept 2A Britannia

- Britannia Road West



Concept 2B

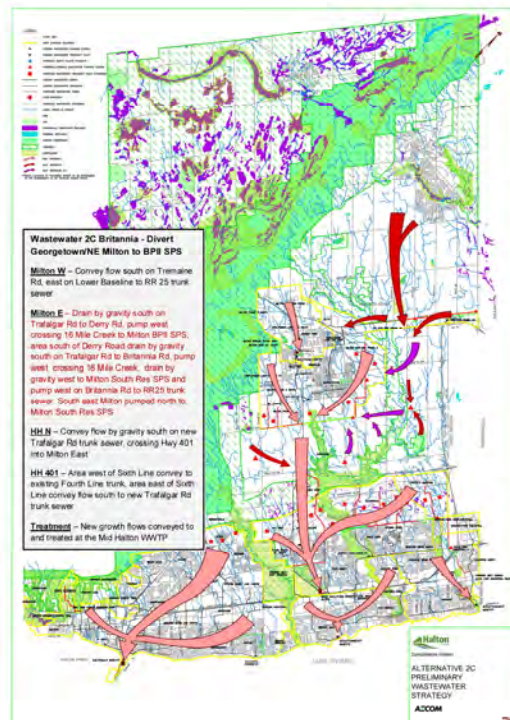
- Georgetown/Hwy 401 to BPII Trunk



South Lake Wastewater Servicing Concepts

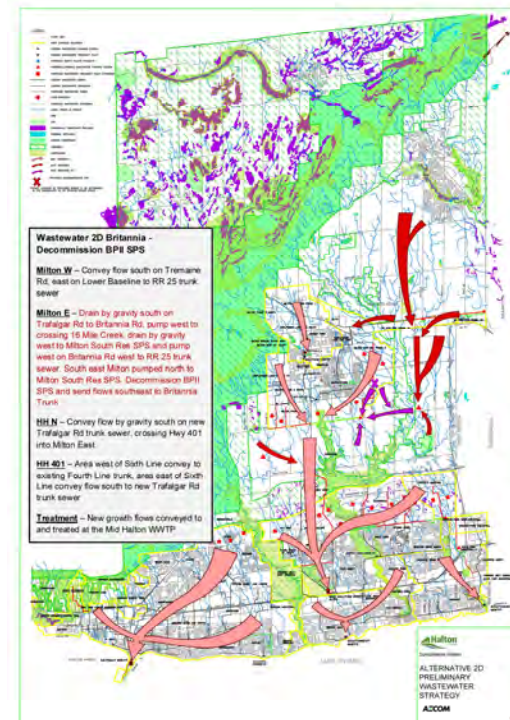
Concept 2C

- Divert Georgetown NE Milton to BPII SPS



Concept 2D

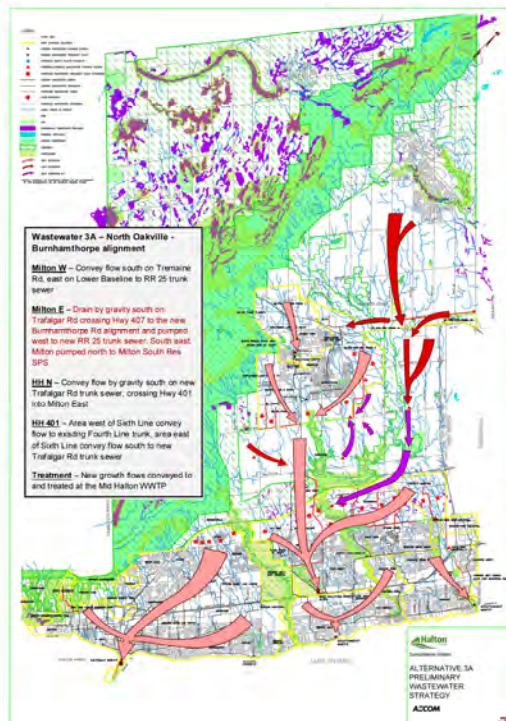
- Decommission BPII SPS



South Lake Wastewater Servicing Concepts

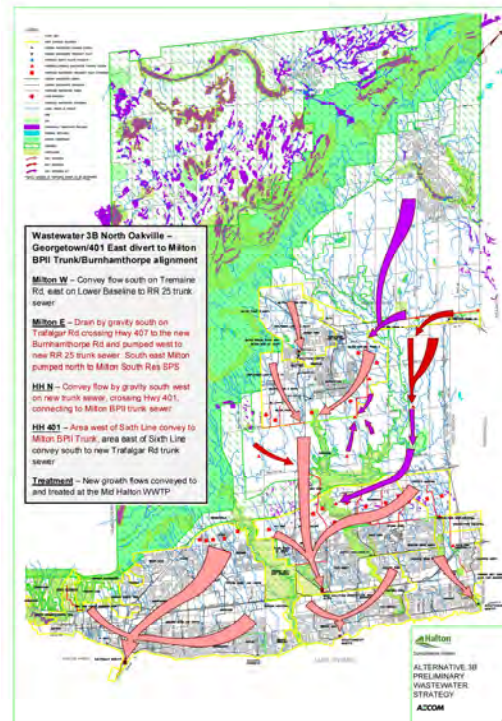
Concept 3A North Oakville

- Burnhamthorpe alignment



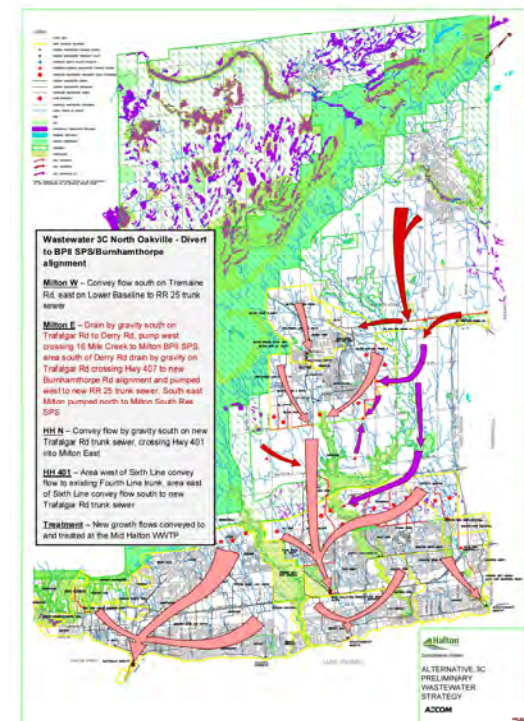
Concept 3B

- Georgetown/401 East divert to Milton BPII Trunk/ Burnhamthorpe alignment



Concept 3C

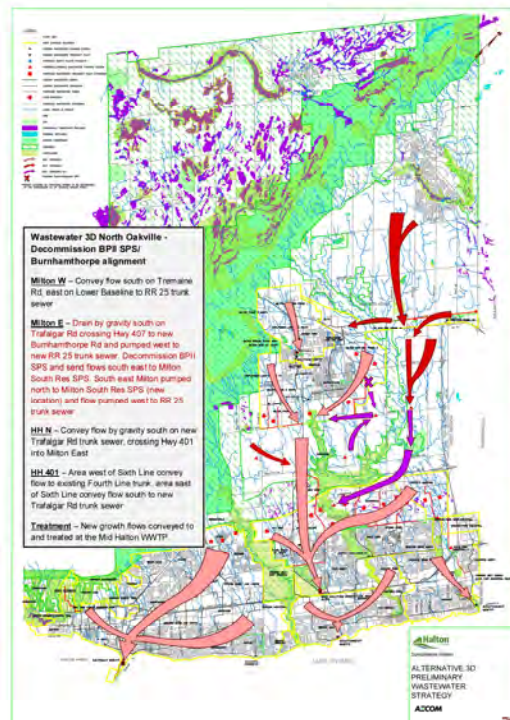
- Divert to BPII SPS/Burnhamthorpe alignment



South Lake Wastewater Servicing Concepts

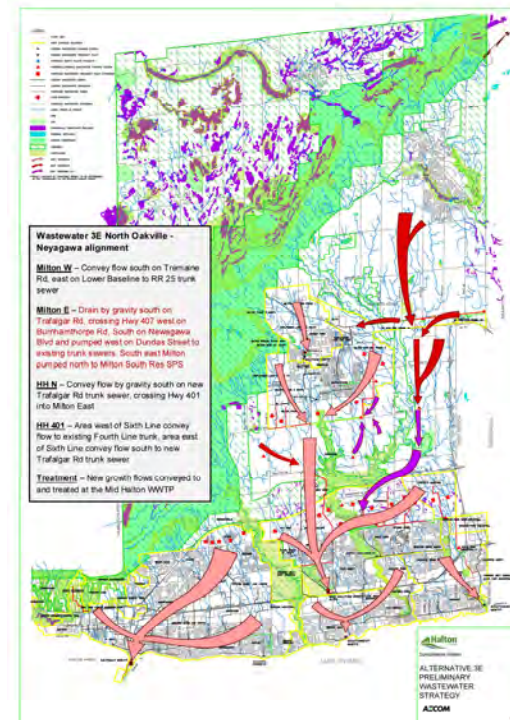
Concept 3D

- Decommission BPII SPS/Burnhamthorpe Alignment



Concept 3E

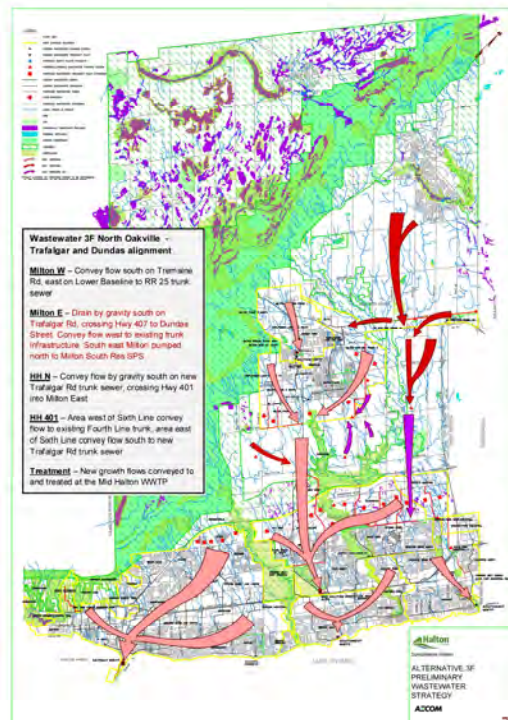
- Neyagawa Alignment



South Lake Wastewater Servicing Concepts

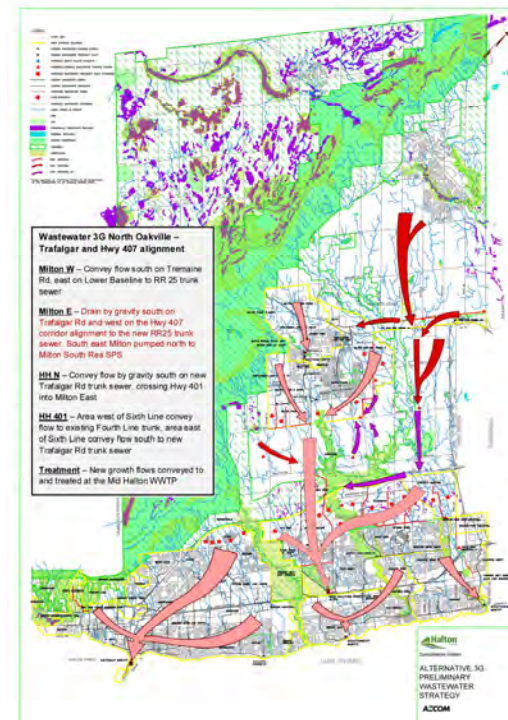
Concept 3F

- Trafalgar and Dundas Alignment



Concept 3G

- Trafalgar and Hwy 407 Alignment



South Lake Wastewater Servicing Concepts

Concept 4A Peel Inter-regional

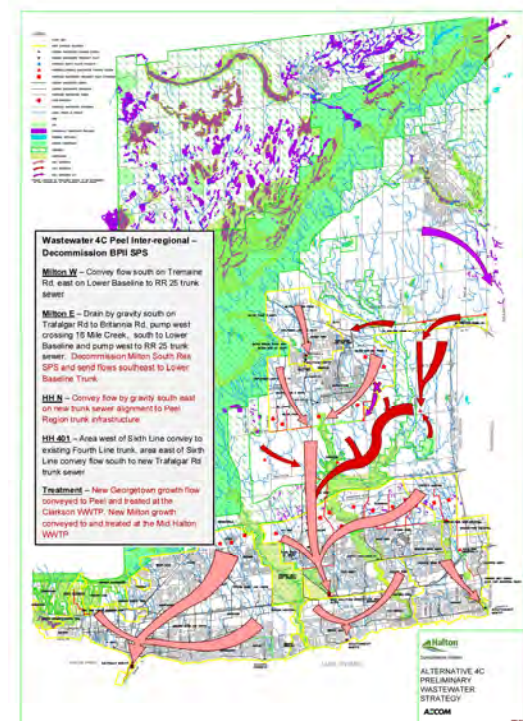
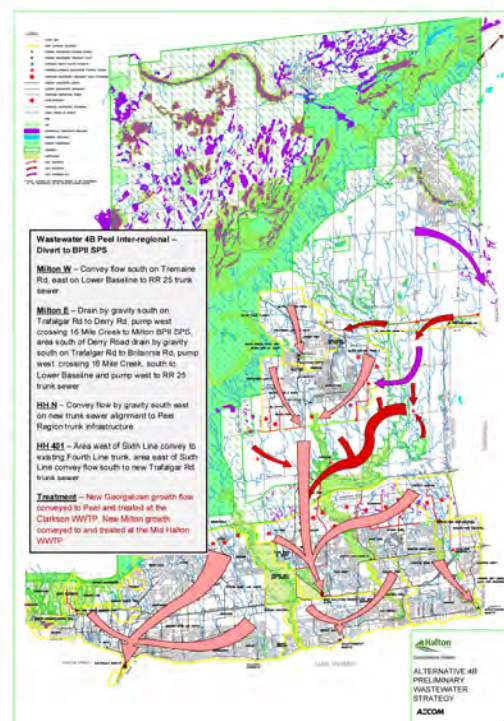
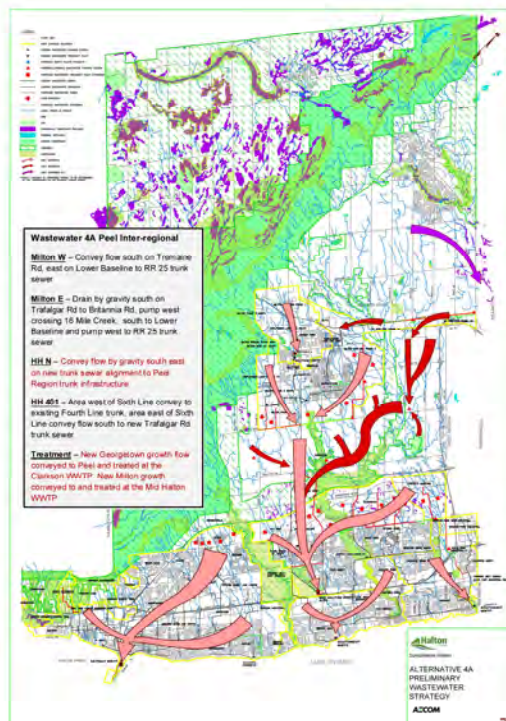
- Peel Inter-regional

Concept 4B

- Divert to BP2 SPS

Concept 4C

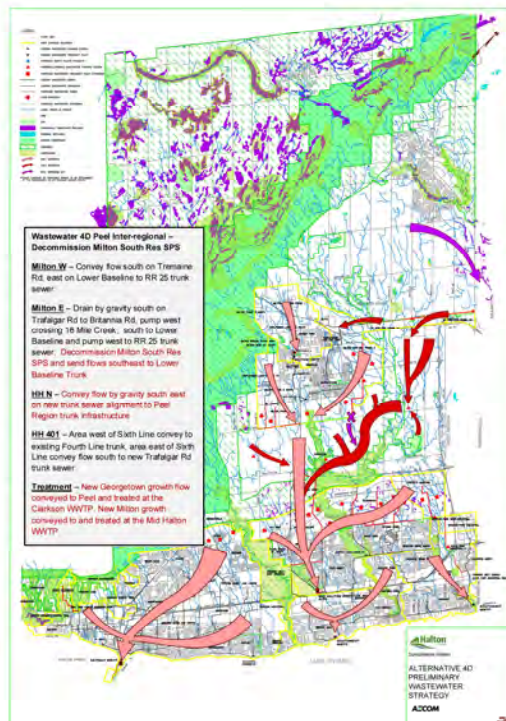
- Decommission BP2 SPS



South Lake Wastewater Servicing Concepts

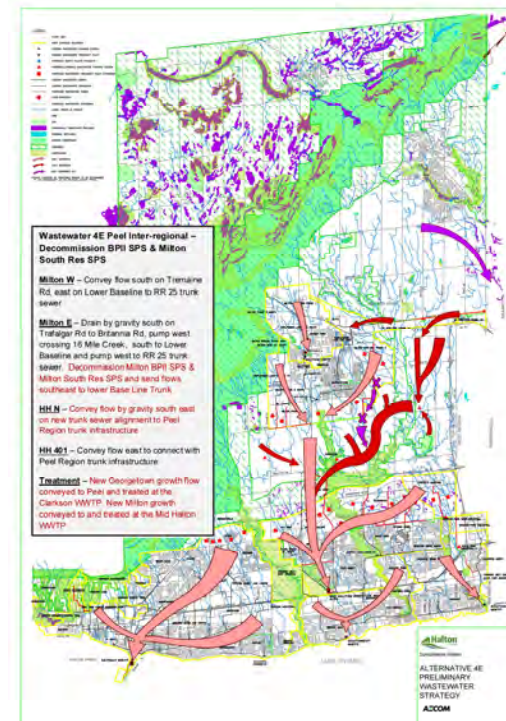
Concept 4D

- Decommission Milton South Res SPS



Concept 4E

- Decommission BP II SPS & Milton South Res SPS



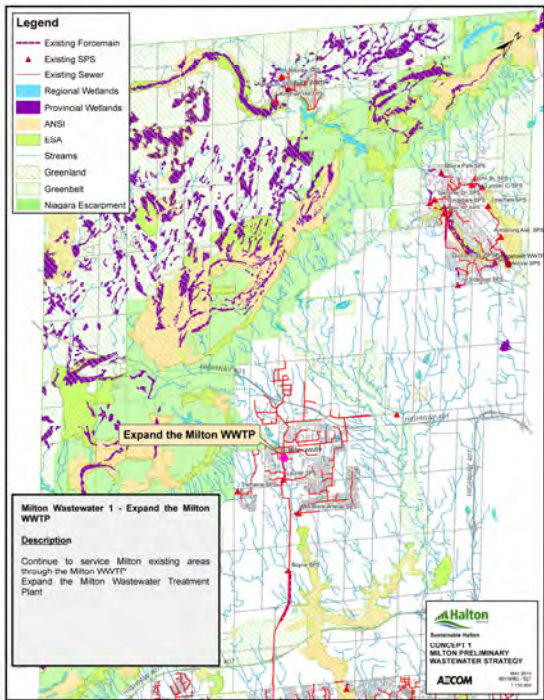
2031 Milton Wastewater Servicing Concepts

- Concept 1 - Expand Existing Milton Wastewater Treatment Plant
- Concept 2 – Divert Exceeding Flows to Mid-Halton Drainage Area

Milton Wastewater Servicing Concepts

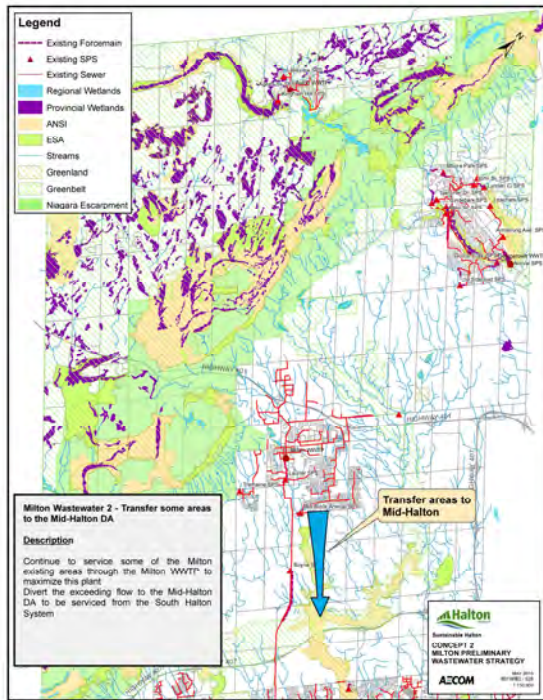
Concept 1

- Expand Existing Milton Wastewater Treatment Plant



Concept 2

- Divert Exceeding Flows to Mid-Halton Drainage Area



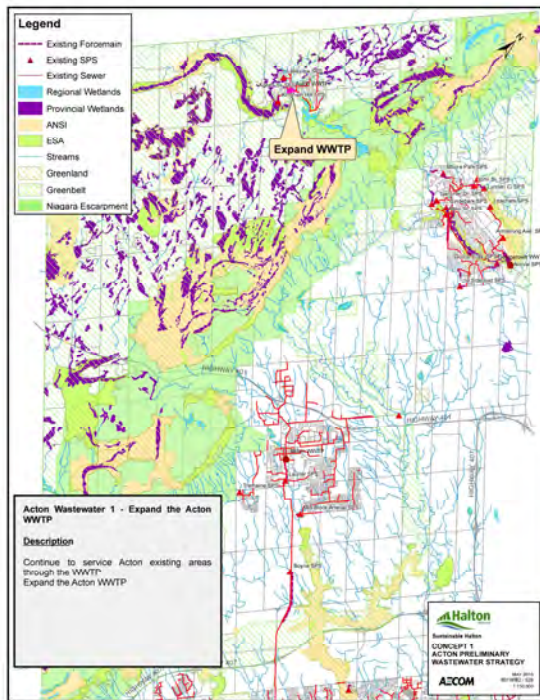
2031 Acton Wastewater Servicing Concepts

- Concept 1 - Expand Treatment Capacity in Acton
- Concept 2 – Reduce Inflow and Infiltration
- Concept 3 – Trunk Sewer Diversion

Acton Wastewater Servicing Concepts

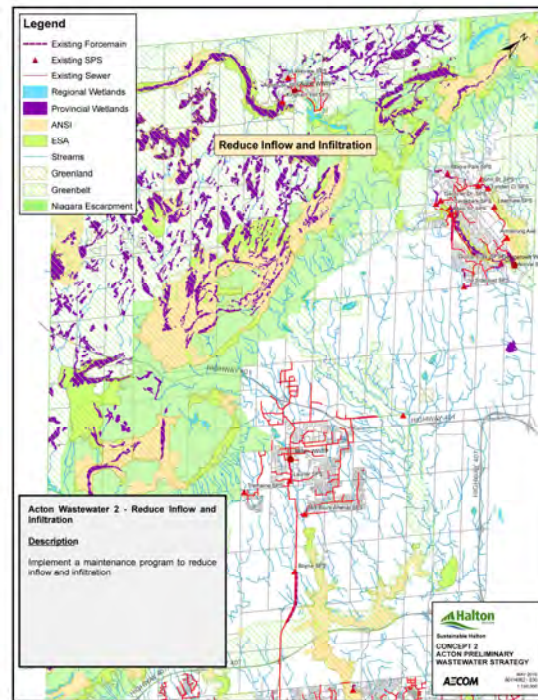
Concept 1

- Expand Treatment Capacity in Acton



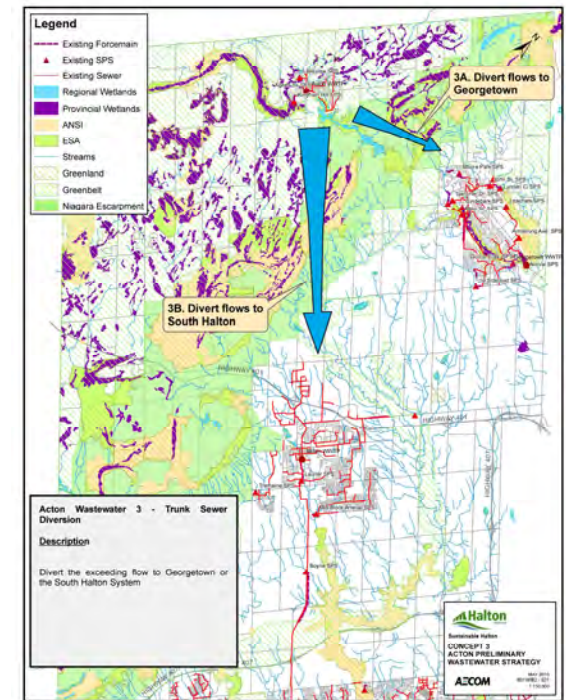
Concept 2

- Reduce Inflow and Infiltration



Concept 3

- Trunk Sewer Diversion



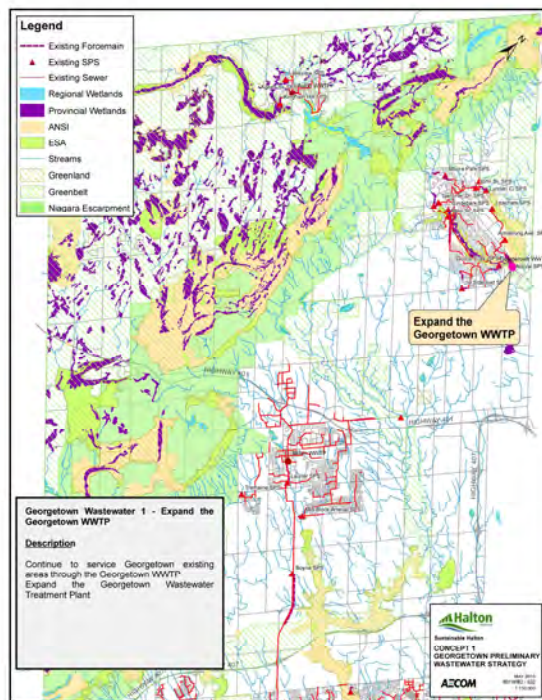
2031 Georgetown Wastewater Servicing Concepts

- Concept 1 - Expand Treatment Capacity in Georgetown
- Concept 2 – Reduce Inflow and Infiltration
- Concept 3 – Trunk Sewer Diversion

Georgetown Wastewater Servicing Concepts

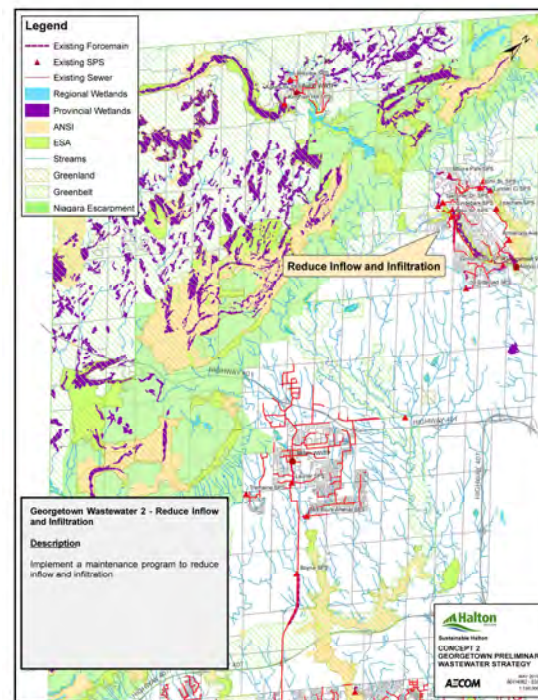
Concept 1

- Expand Treatment Capacity in Georgetown



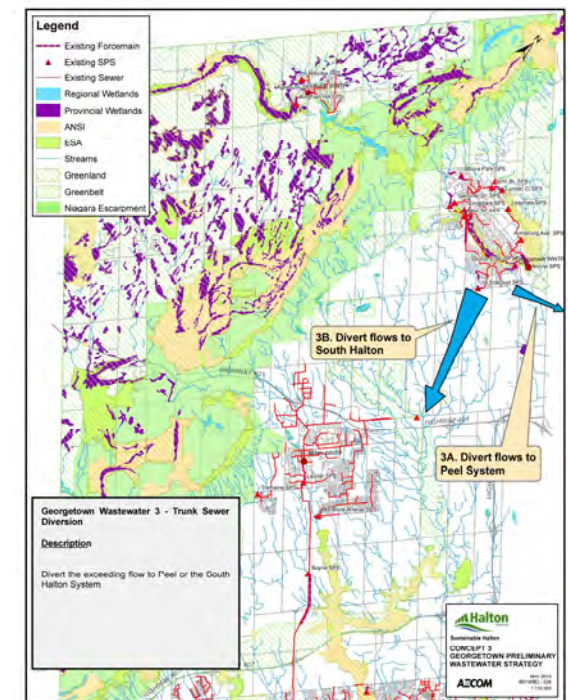
Concept 2

- Reduce Inflow and Infiltration



Concept 3

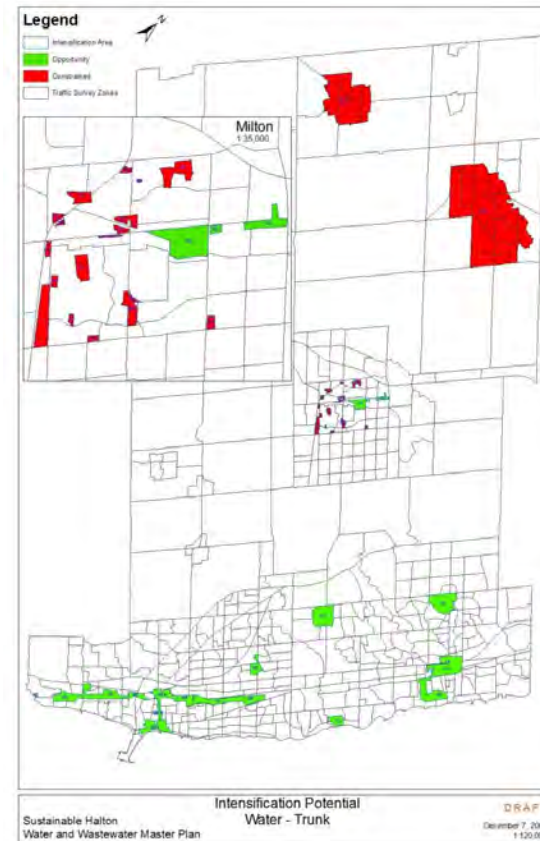
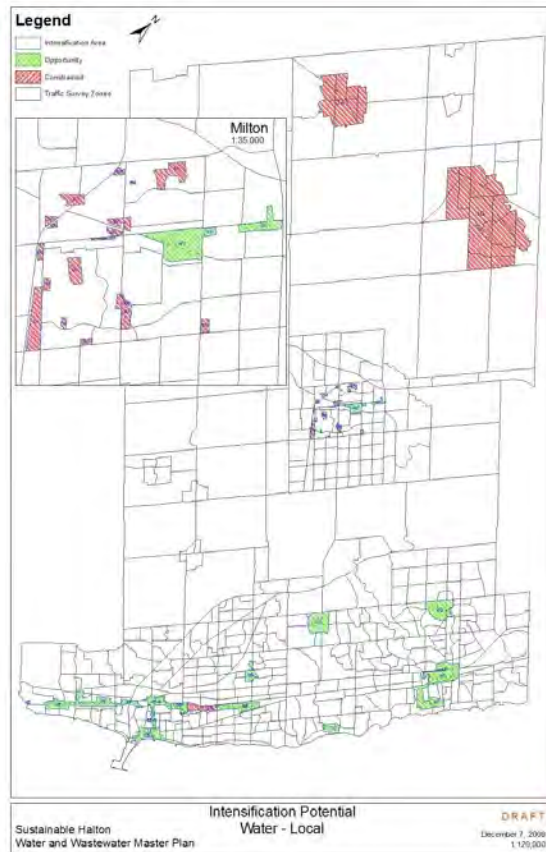
- Trunk Sewer Diversion



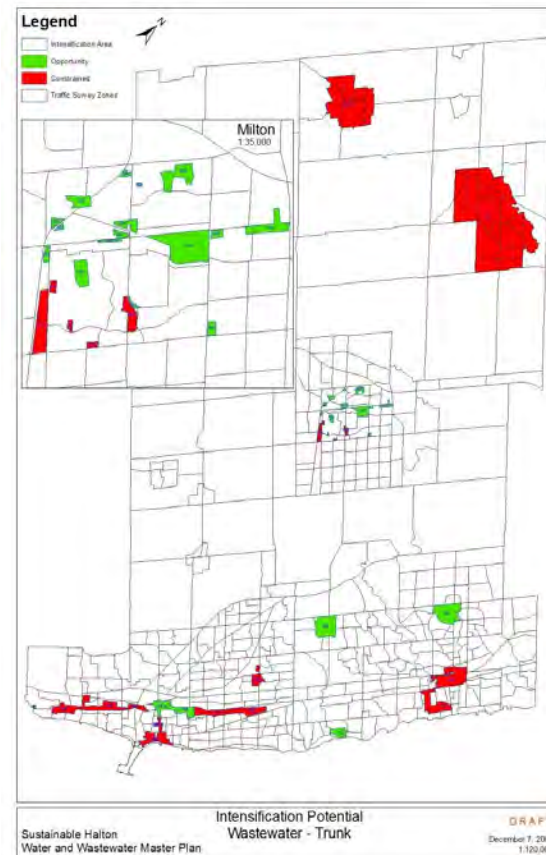
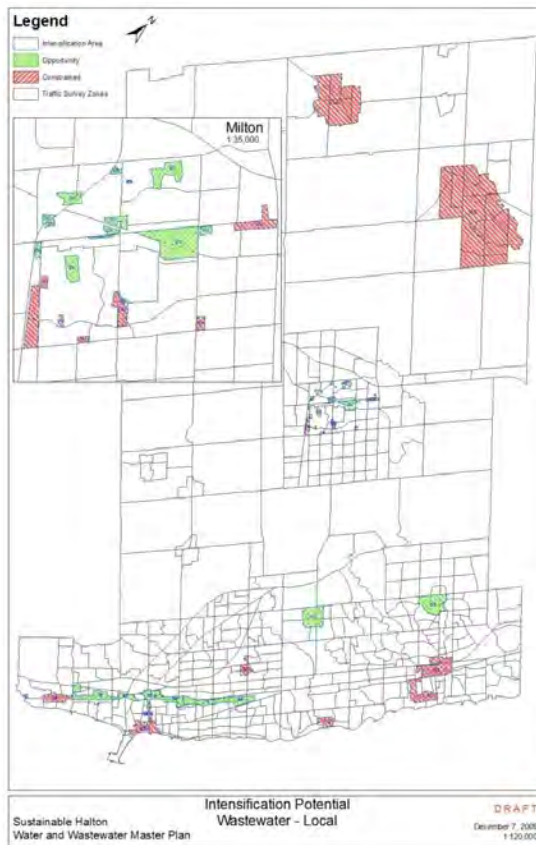
Intensification

- Intensification analysis included a review of potential impact to existing local and trunk level infrastructure
- Analysis was presented to Halton Area Planners in Dec 2009
- Trunk level projects triggered by intensification will be included in the MP Preferred Strategy Capital Program

Water Local and Trunk System Evaluation



Wastewater Local and Trunk System Evaluation



Critical Path

- PIC #1 May 26, 27,31 and June 2
- Finalize shortlist of servicing concepts
- May 2010 Updated BPE Data released
- Finalize technical, environmental and hydro-geological baseline position for use in the alternative servicing evaluation
- June 2010 detailed alternative servicing analysis starts using the updated BPE Data - triple bottom line evaluation & hydraulic modeling
- Servicing Alternatives workshops
- Fall 2010 PIC 2 – MP Class EA Preliminary Preferred Servicing Solution supported by Capital Program
- Nov 2010 Regional Fiscal Impact Analysis requires preliminary W/WW Capital Program
- Late Spring 2011 MP Class EA Report Filed
- Spring 2011 DC By-law Update

Next Steps – PIC's

Municipality	Date	Time	Location
Town of Milton	Wednesday, May 26, 2010	6:30 - 8:30pm	Milton Sports Centre 605 Santa Maria Boulevard (Room 3)
City of Burlington	Thursday, May 27, 2010	6:30 - 8:30pm	Assumption High School 3230 Woodward Avenue (Cafeteria)
Town of Oakville	Monday, May 31, 2010	6:30 - 8:30pm	Halton Regional Centre 1151 Bronte Road (North Auditorium)
Town of Halton Hills	Wednesday, June 2, 2010	6:30 - 8:30pm	Acton Arena & Community Centre 415 Queen Street East (Seniors Centre)

Thank you for your participation

Mr. David Simpson, B.Sc., B.Eng, E.I.T.
Project Manager

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Regional Municipality of Halton
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Telephone: 905-825-6000 ext. 7601
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Mr. Chris Hamel P.Eng
Project Manager

AECOM
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Fax: 905-886-9494
Email: chris.hamel@aecom.com

Thank you for your input.

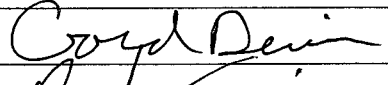
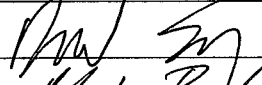
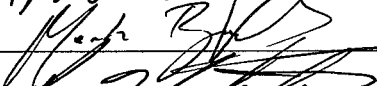
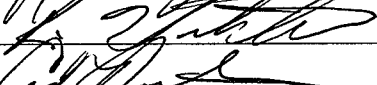
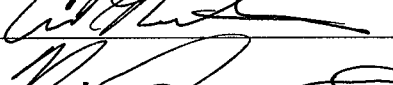

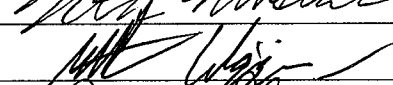
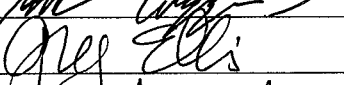
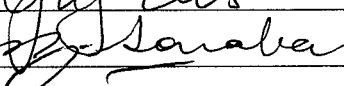

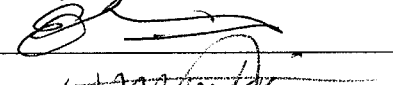
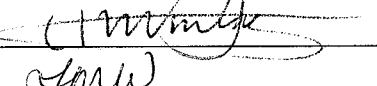
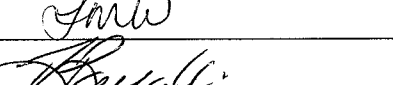
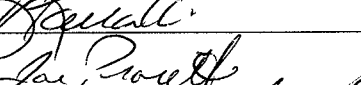
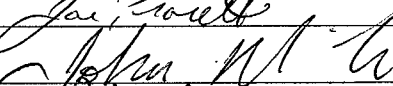
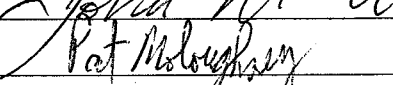
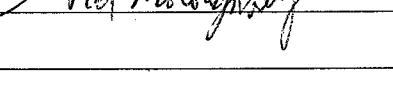

TECHNICAL ADVISORY COMMITTEE MEETINGS

#2

MEETING ATTENDANCE REGISTER

**INTERNAL TECHNICAL ADVISORY COMMITTEE MEETING
HALTON REGION SUSTAINABLE HALTON WATER AND WASTEWATER
MASTER PLAN**

**Halton Regional Headquarters
Tuesday, February 1, 2011**

NAME	AFFILIATION	SIGNATURE
GORD DEVILUS	HALTON	
DAVID SIMPSON	"	
MAREK BRACZEK	"	
RORY MITCHELL	"	
Ant Roberts	"	
MATT SEASWORTH	"	
Mike Linschoten	"	
SETH WIGGINS	Halton	
DEE DEE	"	
Mahdi Tarabain	"	
GEORGE TRESCS	HALTON OWPP	
Andre Boiriv	Halton - Water DC	
LITO PINLAL	HALTON - W/D/WC	
Jackie Weston	Halton - Water D&C	
RICK BANALLI	HALTON WATER D&C	
JOE PROIETT	"	
JOHN McCARDIE	ROM WT P/LT MICE	
Patrick McLaughrey	Halton - Water D+C	
Chris Capell	AECOM	
Miron Pidge	AECOM	
Chris Homel	AECOM	



Serving our Communities and our Environment

Sustainable Halton Water & Wastewater Master Plan

Agenda

1. Introductions & Meeting Objectives
2. Background
3. Key Water Issues & Discussion
4. Preliminary Preferred Servicing Strategy
5. Next Steps

Meeting Objectives

- Review key servicing issues
- Discuss alternative servicing solutions
- Present preliminary preferred servicing strategy
- Gather feedback

Meeting Format

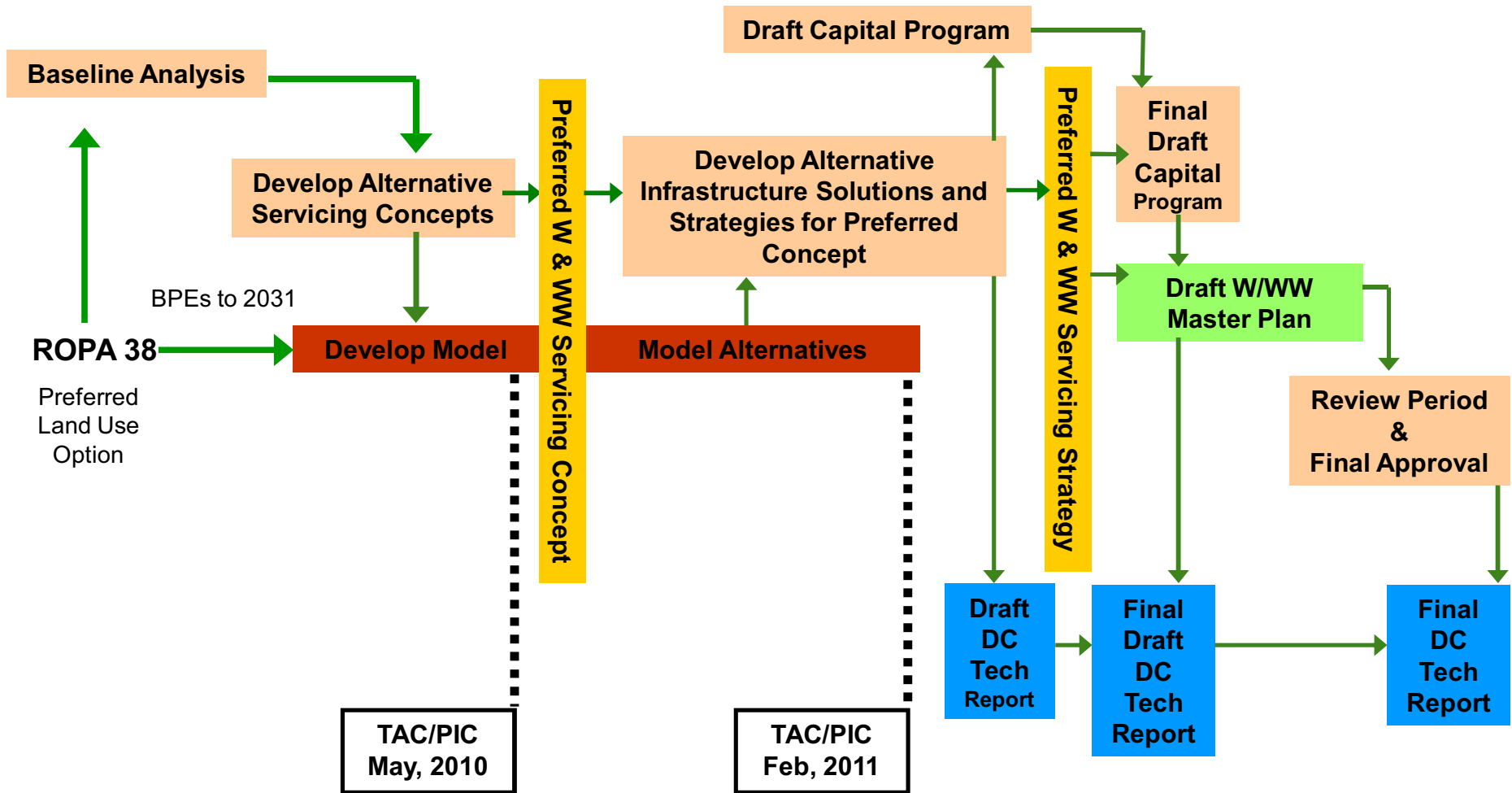
- Study background and project update presentation by AECOM
- Discuss specific servicing issues through smaller group
- Preliminary preferred strategy presentation by AECOM
- Group discussion on strategy

Objectives of the Master Plan Study

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and business in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for 780,000 people & 390,000 jobs by 2031
 - A growth of 300,000 people & 170,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Develop a capital implementation program for the preferred servicing strategy.

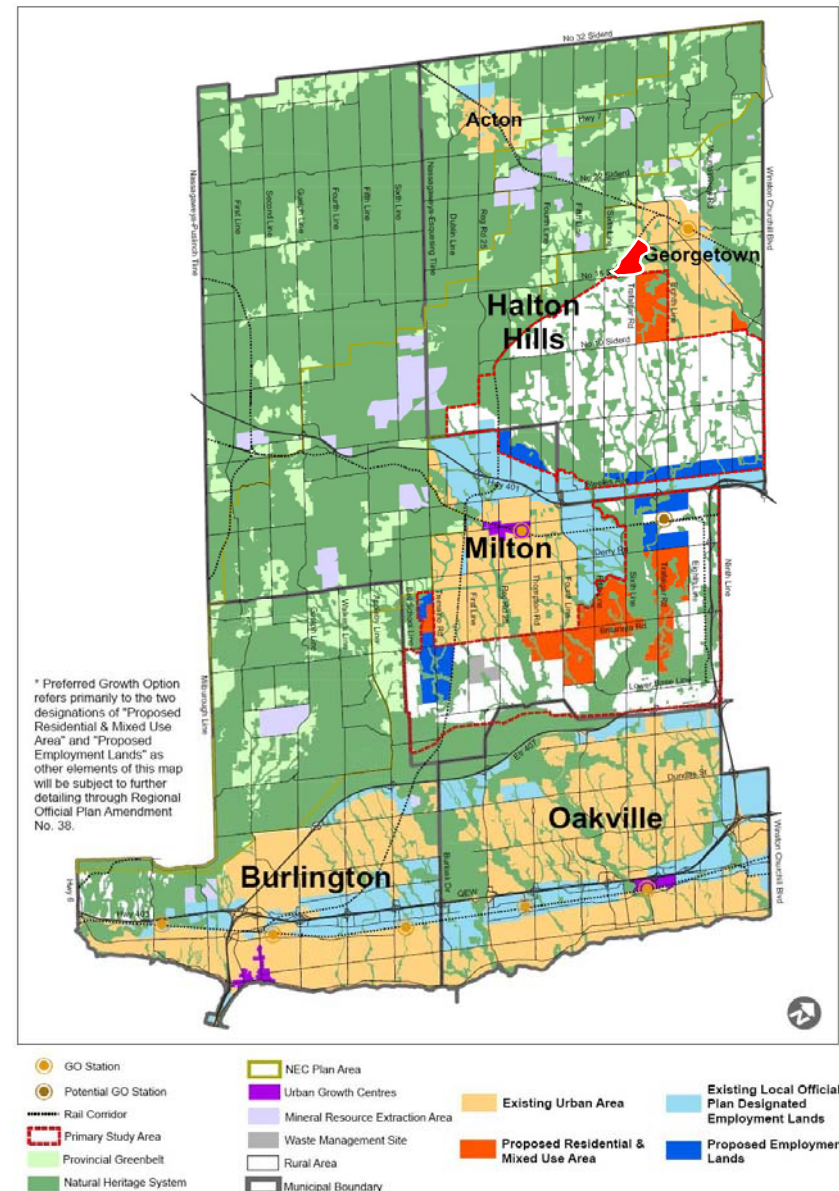
Master Plan Process

Jul to Dec, 2009	Jan to Jun, 2010	Jul, 2010 to	Mar, 2011	Apr/May, 2011	Jun/Jul, 2011
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Preferred Growth Option

- 2009 to 2031 Growth:
 - Residential (serviced): 68,000 to 221,000 people
 - Non-Residential (serviced): 34,700 to 110,600 employees
- Expansion of Urban Boundary- New Growth Areas in 2021-2031



Smaller Group Discussion

- Acton
- Georgetown
- Milton
- Burlington
- Oakville

Key Water Issues - Acton

Issues/Constraints:

- Existing well supply not sufficient to meet projected growth
- Need for treatment upgrade
- Existing storage capacity constraints
- Isolated system (requires independent solution)
- Existing urban boundary will remain

Opportunities:

- Upgrade well supply:
 - Increase existing supply to meet 2031 growth
 - Investigate new supplies (new well, interconnection with Georgetown, aquifer recharge)
- Evaluate treatment upgrades & storage alternatives



Solutions:

- Maintain independent system & groundwater supply
- Provide supply through a new well and upgrade existing wells
- Upgrade treatment & storage

Key Water Issues - Georgetown

Issues/Constraints:

- Existing well supply not sufficient to meet growth
- Emergency connection required or security of supply
- Existing storage constraints (operational & quantity)
- Hamlet servicing requirement
- Expanded urban boundary (large greenfield growth)

Opportunities:

- Upgrade well supply:
 - Increase existing supply to meet 2031 growth
 - Investigate new water supply options (new wells, interconnection with South Halton or with Peel, aquifer recharge)
- Evaluate storage alternatives



Solutions:

- System cannot be maintained on groundwater only
- Connect some areas of Georgetown to a lake based system
- Provide emergency supply through a lake based system
- Increase storage
- Review impacts to lake based system & to water balance

Key Water Issues - Milton

Issues/Constraints:

- Existing well supply not sufficient to meet current & projected growth
- Constrained wells:
 - Walker's Line – limited supply, not meeting PTTW, water quality issues, surge tank/watermain issues, costly to run, high cost to upgrade/bring to capacity, existing customers on Walker's Line
 - Kelso – limited supply, not meeting PTTW
 - Capital spent without achieving desired results
- Kelso feedermain redundancy
- Main St. reservoir feedermain (2017)
- Political / public perception of maintaining groundwater service area

Opportunities:

- Investigate increase in well supply to meet 2031 growth
- Evaluate connection to lake based system



Solutions:

- System cannot be maintained on groundwater only
- Transfer some areas of Milton to South Halton lake based system
- Security of supply to Milton groundwater through lake based system
- In turn, creates impact on South Halton lake based system
- Review water balance

Key Water Issues – South Halton

Issues/Constraints:

- Intensification impact on existing system
- Impact of transferring areas in Milton and Georgetown to lake based system
- Treatment capacity vs. projected demands
- Beaufort Reservoir and Pumping Station constraints
- Tyandaga Reservoir (operational issues)
- Healthcare centre secondary plan (pipe realignment and size)
- North Aldershot servicing
- Washburn feedermain constraints
- Pressure zone boundary – level of service
- Burloak feedermain – Zone 1 /EW
- West to east transfer

Opportunities:

- Evaluate Oakville WWP and Burloak WWP upgrades
- Oversizing considerations
- Evaluate storage alternatives

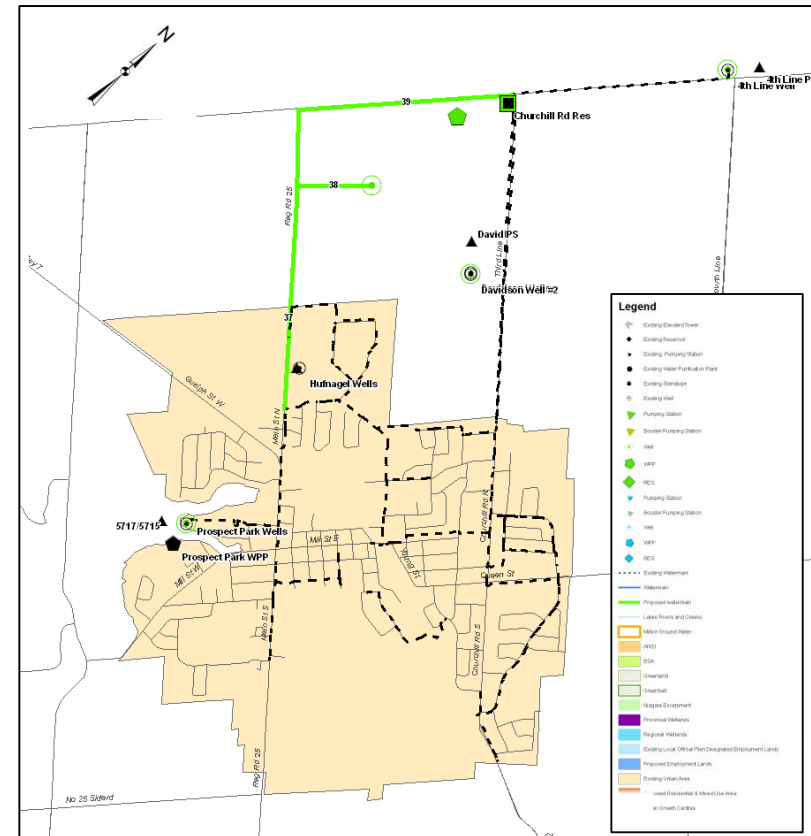


Solutions:

- Strengthen west to east transfer
- Feed to Burlington Zone 2 & Kitchen Reservoir from Burloak
- Feed to Washburn Pumping Station / redundancy of supply
- Increase pumping capacity to zones O/B2 and O/B3

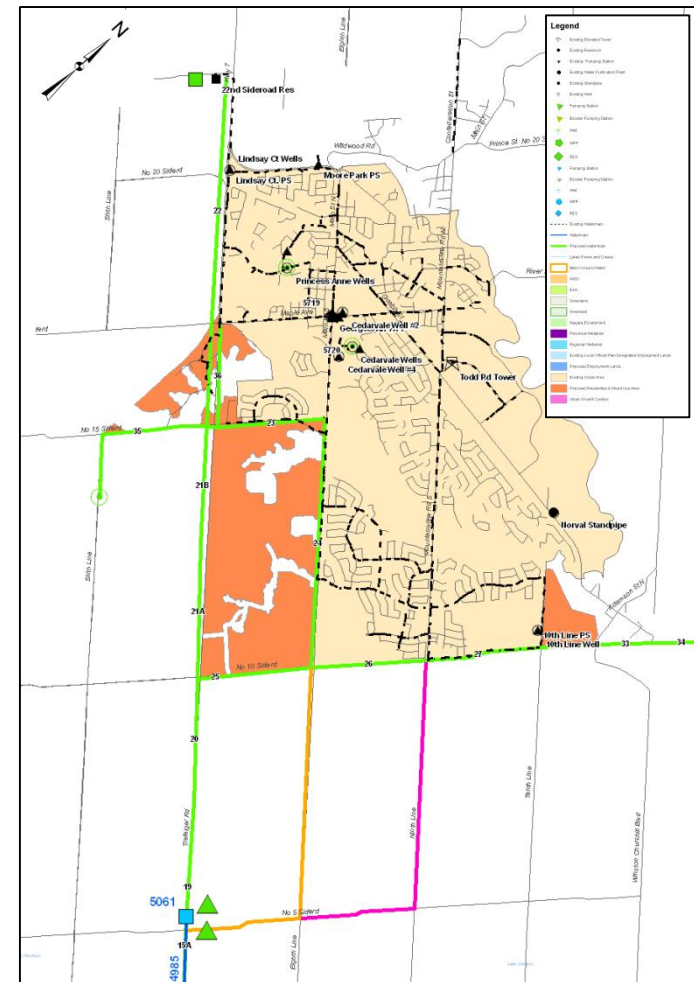
Acton Water Servicing Strategy

- Preliminary preferred water servicing strategy for Acton is as follows:
 - Stay on groundwater supply
 - Explore new well supplies & upgrade existing wells to meet future demands
 - Upgrade existing reservoir to increase storage capacity
 - Provide centralized treatment
- Rationale is to:
 - Maximize available use of existing & planned infrastructure
 - Minimize impacts on environmental features



Georgetown Water Servicing Strategy

- Preliminary preferred water servicing strategy for Georgetown is as follows:
 - Maintain groundwater supply service area
 - Service new greenfield growth via lake based system
 - New Zone 6 reservoir at existing site, to provide additional storage capacity
 - New watermain alignment along Trafalgar Rd/Hwy 7 minimizes head losses
 - Explore new well supply
- Rationale is to:
 - Increase security of supply
 - Minimize operation & maintenance costs
 - Coordinate with phasing
 - Minimize impacts on environmental features
 - Provide a Halton-only solution with emergency supply from Peel



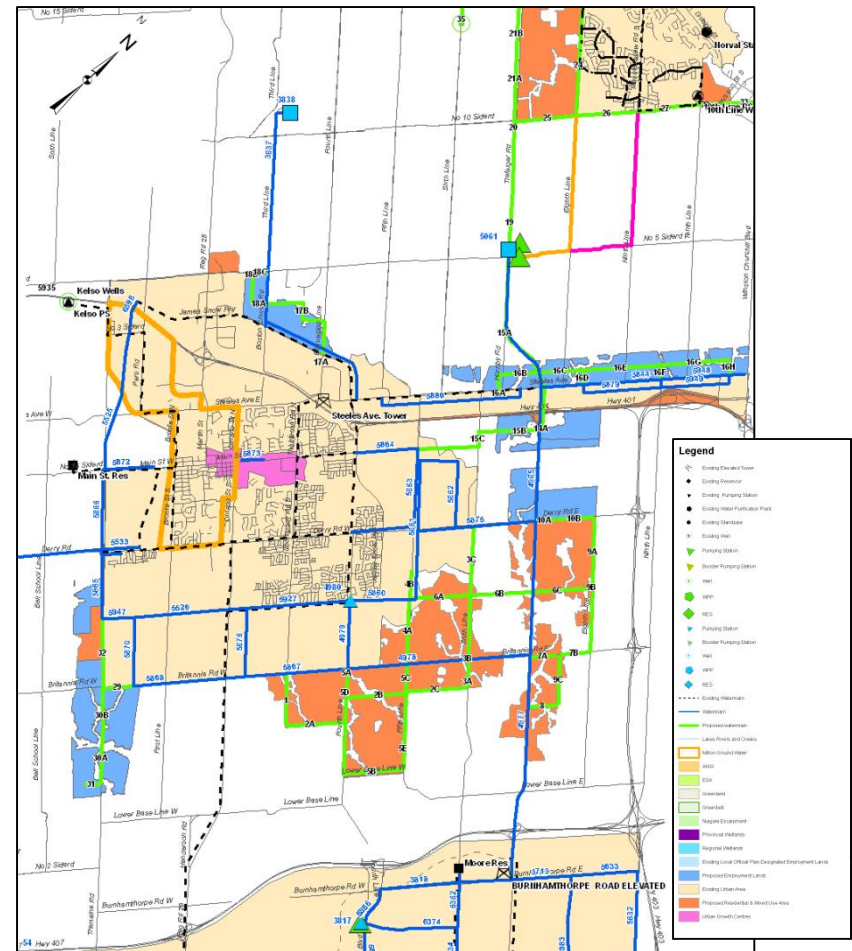
Milton Water Servicing Strategy

- Preliminary preferred water servicing strategy for Milton is as follows:

- Maintain groundwater supply service area
- Transfer areas in Milton to lake based system
- Upgrade existing Walker's Line & Kelso wells

- Rationale is to:

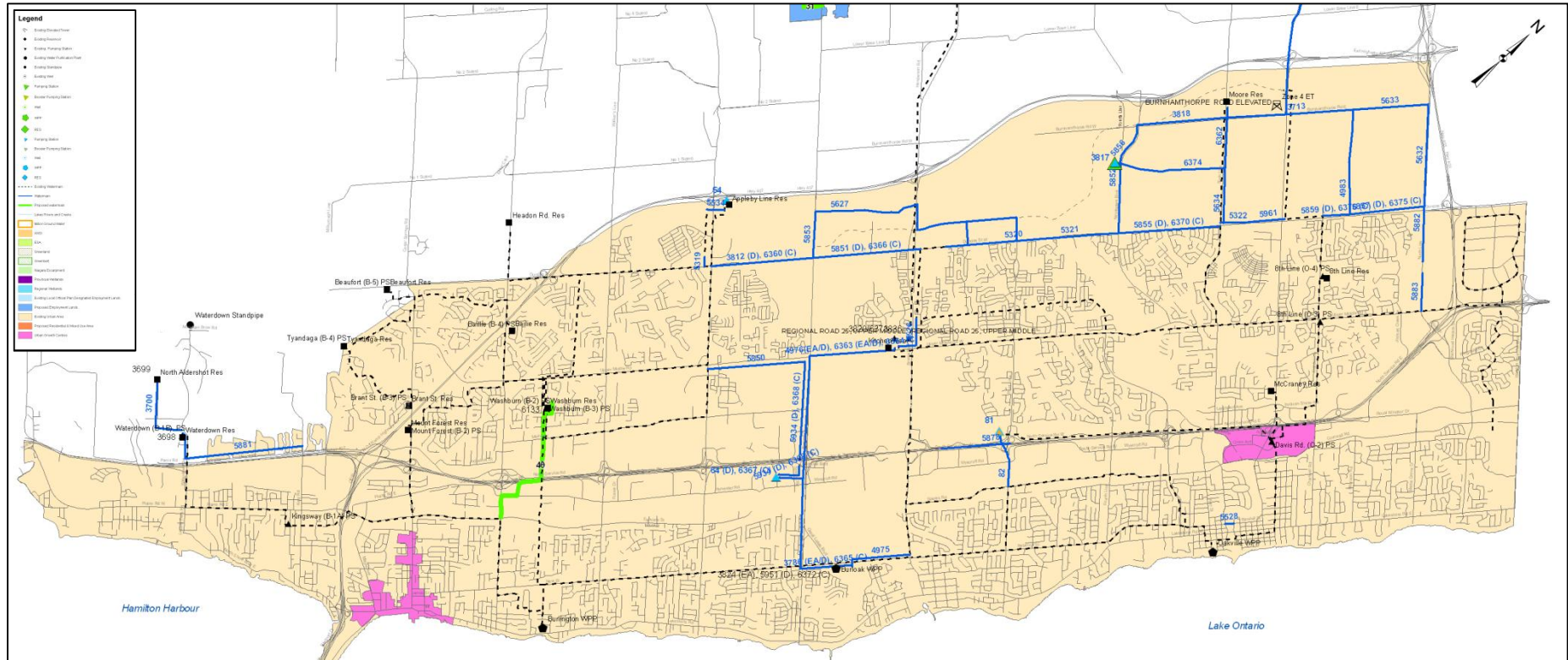
- Increase security of supply through lake based system
- Maximize available use of existing & planned infrastructure
- Coordinate with phasing
- Minimize impacts on environmental features
- Provide a Halton-only solution



South Halton Water Servicing Strategy

- Preliminary preferred water servicing strategy for South Halton is as follows:
 - Oakville WPP optimization
 - Burloak WPP capacity expansion
 - New feed to Washburn Pumping Station and Reservoir
 - Increase pumping capacities to zones 3, 4 and 5
 - New Zone 6 pumping to service Georgetown greenfield growth
- Rationale is to:
 - Increase security/redundancy of supply
 - Coordinate with phasing
 - Build off & maximize use of existing & planned infrastructure
 - Minimize operation & maintenance costs
 - Provide a Halton-only solution

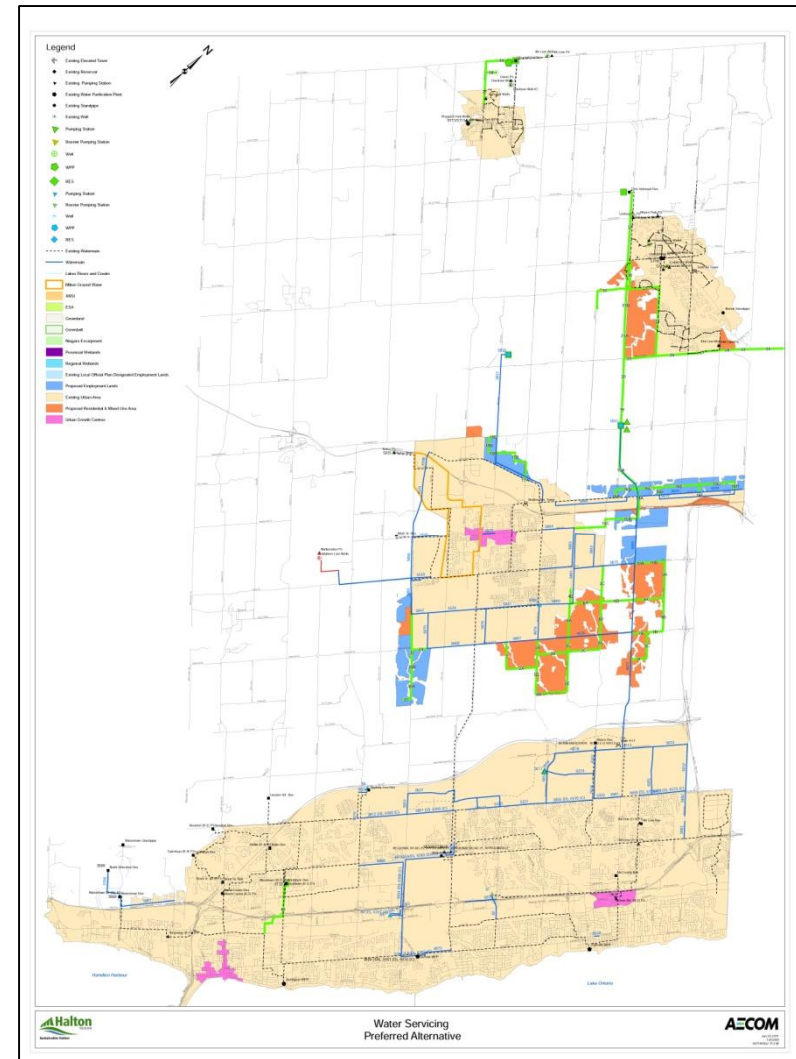
South Halton Water Servicing Strategy



Overall Water Servicing Strategy

Rationale:

- Acton community to stay on groundwater supply
- Maintain a Georgetown groundwater supply service area and service new greenfield growth from the lake based system
- Maintain a Milton groundwater supply service area and transfer areas in Milton to the lake based system
- Expand the lake based system to have the ability to service growth in the northern systems
- Evaluation of alternative storage sites
- Evaluation of alternative watermain alignments
- Evaluation of groundwater alternatives on a case by case basis
- Reconciliation of pressure zones, level of service, etc.





Serving our Communities and our Environment

Sustainable Halton Water & Wastewater Master Plan

Agenda

1. Introductions & Meeting Objectives
2. Background
3. Key Wastewater Issues & Discussion
4. Preliminary Preferred Servicing Strategy
5. Description of Servicing Alternatives
6. Next Steps

Meeting Objectives

- Review key servicing issues
- Discuss alternative servicing solutions
- Present preliminary preferred servicing strategy
- Gather feedback

Meeting Format

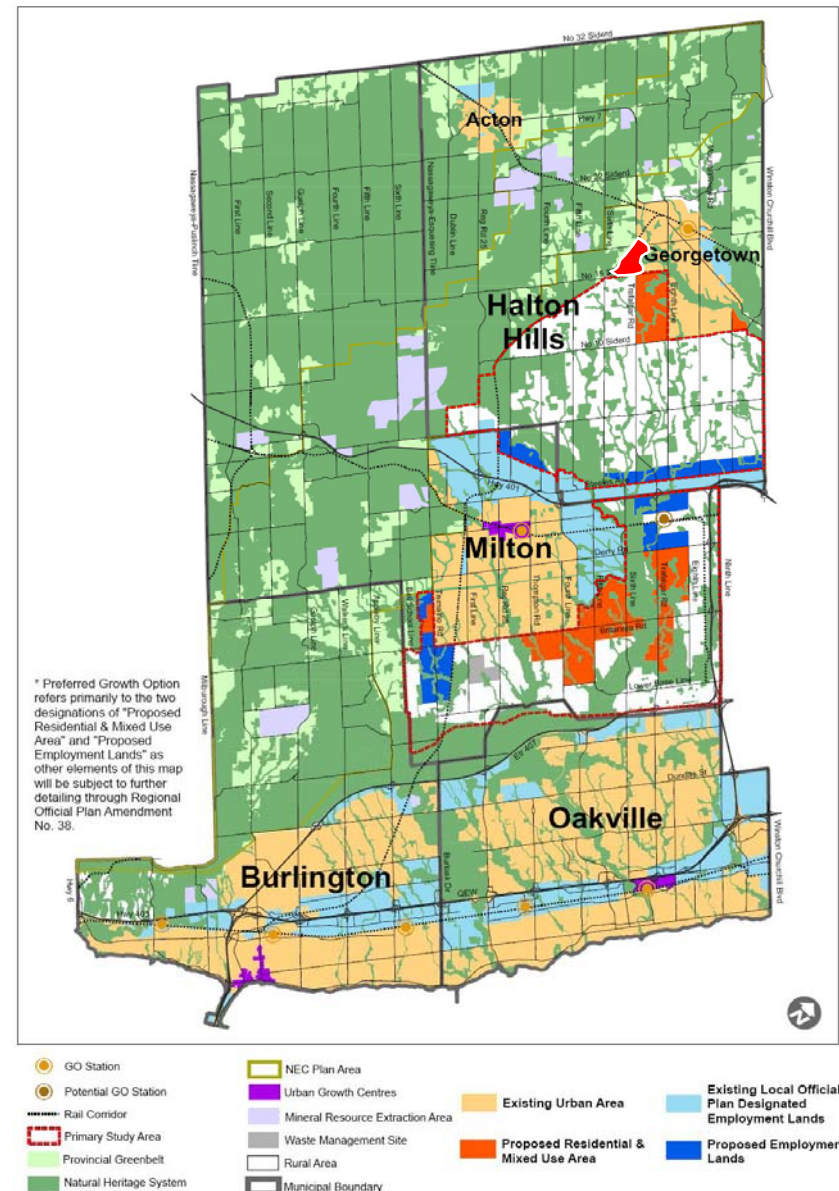
- Study background and project update presentation by AECOM
- Discuss specific servicing issues through smaller group discussions
- Group consolidation of discussion
- Preliminary preferred strategy presentation by AECOM
- Group discussion on strategy

Objectives of the Master Plan Study

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and business in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for 780,000 people & 390,000 jobs by 2031
 - A growth of 300,000 people & 170,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Develop a capital implementation program for the preferred servicing strategy.

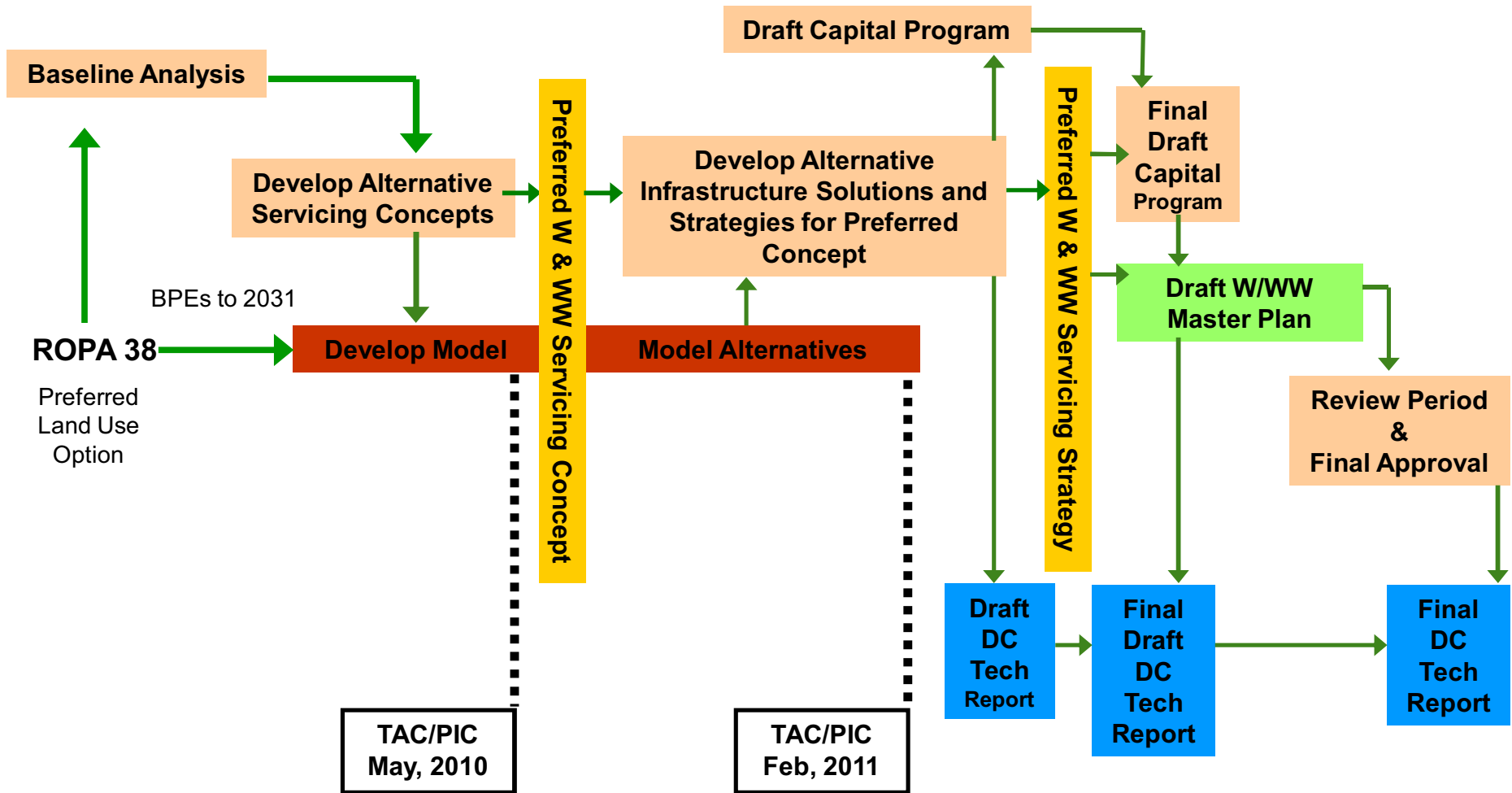
Preferred Growth Option

- 2009 to 2031 Growth:
 - Residential (serviced): 68,000 to 221,000 people
 - Non-Residential (serviced): 34,700 to 110,600 employees
- Expansion of Urban Boundary- New Growth Areas in 2021-2031



Master Plan Process

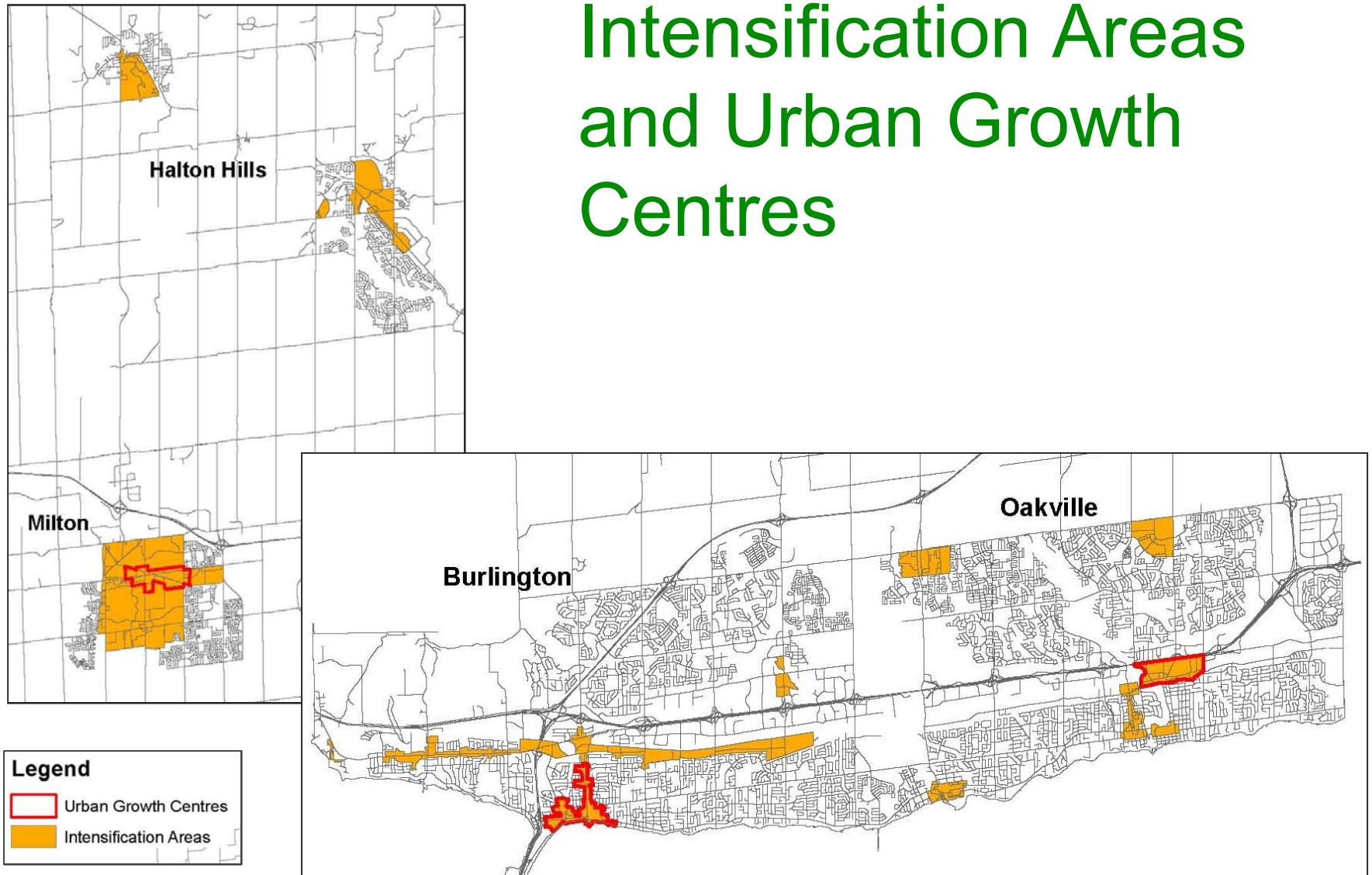
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Key Wastewater Issues

- Service area changes – groundwater/stream based to lake-based
 - Water body base flows
 - Water balance
 - Economics
- Expansion or Decommissioning WWTPs
 - Water body base flows
 - Water balance
 - Economics
- Environmental feature crossings
- Integration of WWPS MP including decommissioning of WWPS and introduction of deep sewers

Intensification Areas and Urban Growth Centres



Key Wastewater Issues - Acton

Issues/Constraints:

- Existing treatment capacity not sufficient to meet projected growth
- High inflow & infiltration
- Isolated service area
- Planned growth is within existing urban boundary (smaller scale growth)
- Stream based assimilative capacity criteria restrictive for expansion
- Need to consider minimum flows in receiving streams and water balance

Opportunities:

- Investigate increase in plant capacity
- Investigate new plant / diversion
- Reduce levels of inflow & infiltration



Solutions:

- Expand plant
- Extend wastewater collection network

Key Wastewater Issues - Georgetown

Issues/Constraints:

- Existing treatment capacity not sufficient to meet 2031 flows
- Isolated system
- Topographical constraints may require pumping
- Large new greenfield service area growth
- Intensification
- Stringent stream based effluent criteria requirements to be met if expanded

Opportunities:

- Expand treatment plant to service growth
- Divert flow to South Halton drainage system
- Divert flow to Peel
- Combination of above
- Review existing and future service areas



Solutions:

- Existing plant to service existing service areas & Hamlets
- Greenfield growth and some existing service area serviced by new gravity drainage to south system

Key Wastewater Issues - Milton

Issues/Constraints:

- Existing treatment capacity not sufficient to meet projected growth
- Existing system already diverting flow in excess of treatment capacity
- Stringent stream based effluent criteria requirements to be met if expanded
- Existing & planned infrastructure sized to divert flow in excess of existing plant capacity
- Milton experiencing majority of post 2021 new growth
- Divided drainage areas due to environmental features
- Majority of new growth not easily serviced by gravity
- Growth is distributed throughout Milton
- Phasing challenges

Opportunities:

- Continue to divert existing Milton WWTP drainage area in excess of capacity to south system
- Utilize existing and planned trunk infrastructure to service new areas from Milton to south system
- Network of gravity and WWPS/forcemains to service new growth
- Inter-regional servicing



Solutions:

- Utilize existing and planned trunk infrastructure as well as construct new trunk sewer/WWPSs to service growth in Milton and Georgetown
- Size south treatment plant to accommodate future Milton / Georgetown flows

Key Wastewater Issues – South Halton

Issues/Constraints:

- Potential impact on existing infrastructure with additional intensification flow
- Continued operation & maintenance cost of existing collection system
- High number of existing sewage pumping stations
- Existing treatment capacity of Skyway WWTP not sufficient to meet projected growth
- Oakville plants close to reaching capacity by 2031 with existing service areas
- Skyway WWTP required to meet RAP targets

Opportunities:

- Existing plants to continue to service existing drainage area
- Mid-Halton to service existing drainage area plus Milton & Georgetown new growth
- Inter-regional option
- Look to expand existing lake based plants
- Decommission pumping stations and build deep trunks in Oakville & Burlington

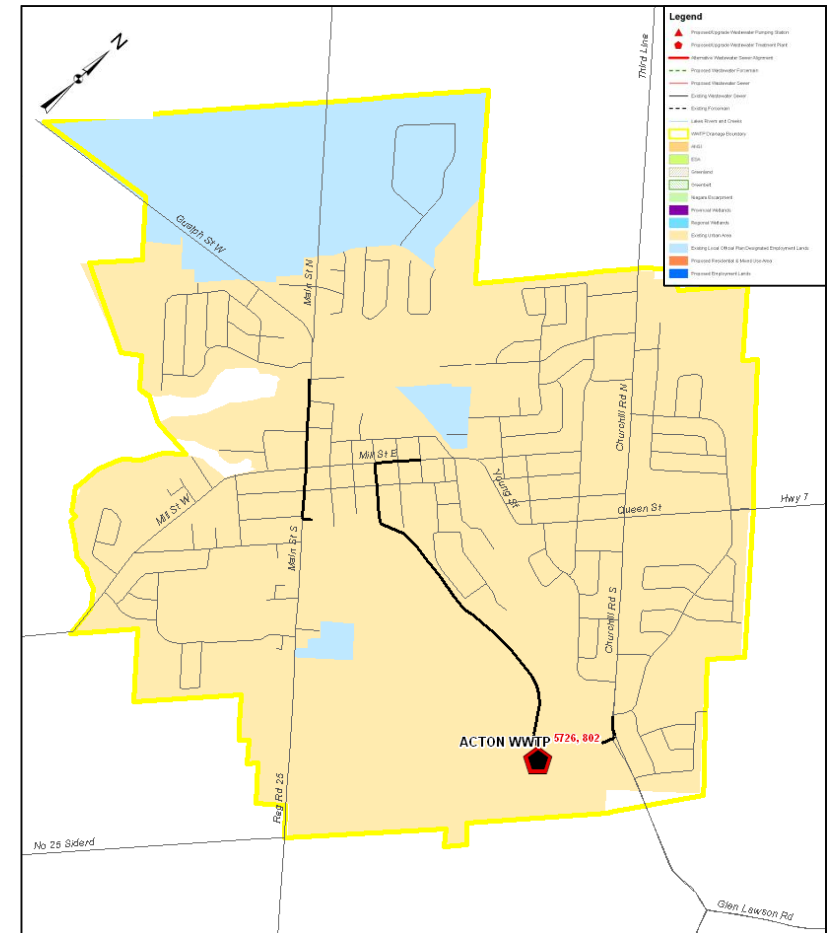


Solutions:

- All of the above along with implementing gravity sewer solution in place of existing pumping station/forcemain servicing in the south system
- Tertiary Treatment at Skyway WWTP to support Hamilton Harbour RAP Targets

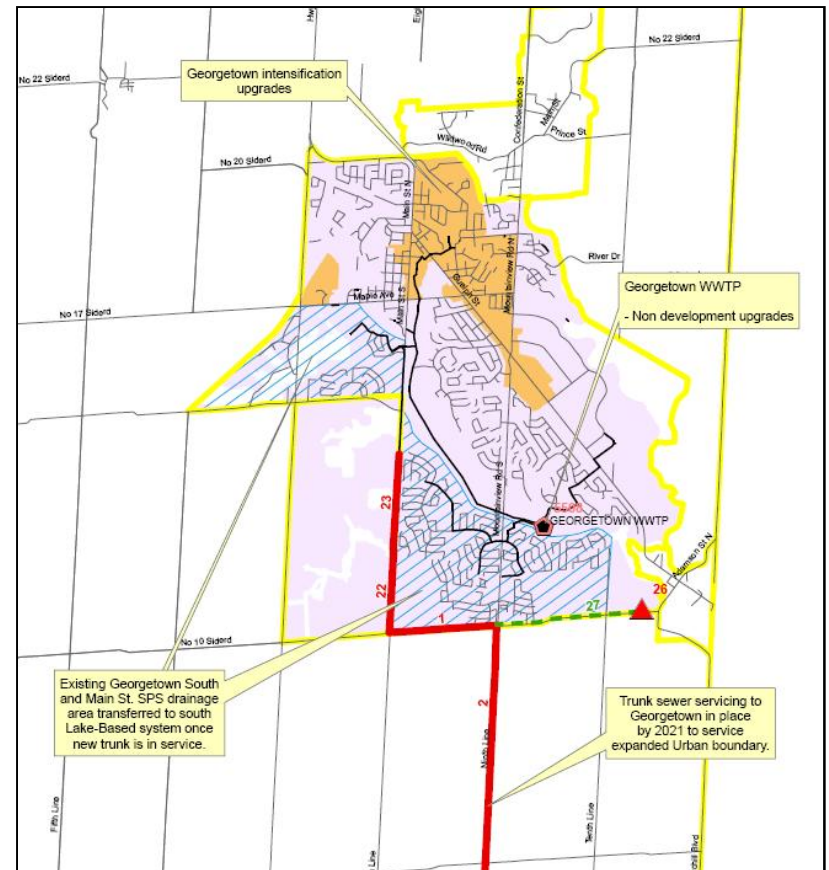
Acton Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for Acton is as follows:
 - Allow system to operate independently
 - Expand treatment capacity at existing Acton WWTP to meet 2031 flows
- Rationale is to:
 - Minimize impact to environmental features
 - Maximize use of available infrastructure
 - Halton-only solution



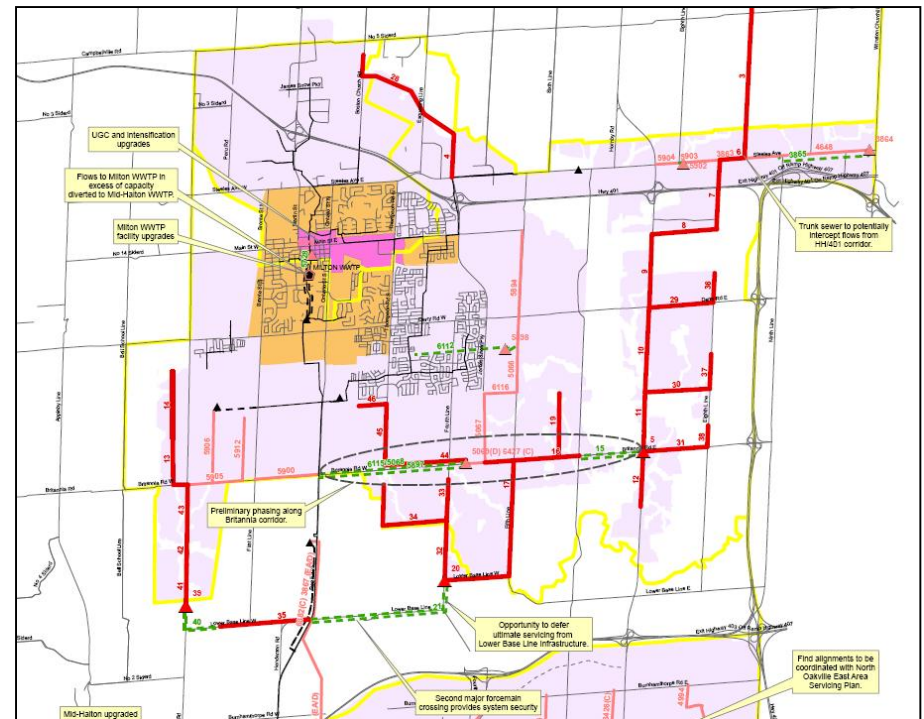
Georgetown Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for Georgetown is as follows:
 - Construct one wastewater pumping station (WWPS) and forcemain
 - Expand gravity collection system
 - Georgetown WWTP will not be able to support growth to 2031. Flows to be sent south to Mid-Halton WWTP
 - **Confirm diversion strategy in west Georgetown WWPSs**
- Rationale is to:
 - Minimize impact to environmental features
 - Coordinate with road widening/phasing of growth
 - Maximize available collection, treatment, and capacity in south system
 - Develop a servicing strategy that has the flexibility to peel off areas (Stewarttown and South Hill) within Georgetown WWTP drainage area and send those flows south via 8th/9th Line Trunk Sewer



Milton Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for Milton is as follows:
 - Continue to divert flows to Mid Halton
 - Expand Fulton Sewage PS capacity at Milton WWTP
 - Expand gravity collection system
 - Construct seven new pumping stations and forcemains to service growth areas
- Rationale is to:
 - Build off existing & planned infrastructure
 - Overcome topographical and environmental constraints
 - Develop an overall servicing strategy that facilitates phasing of growth/development
 - Coordinate with planned transportation projects

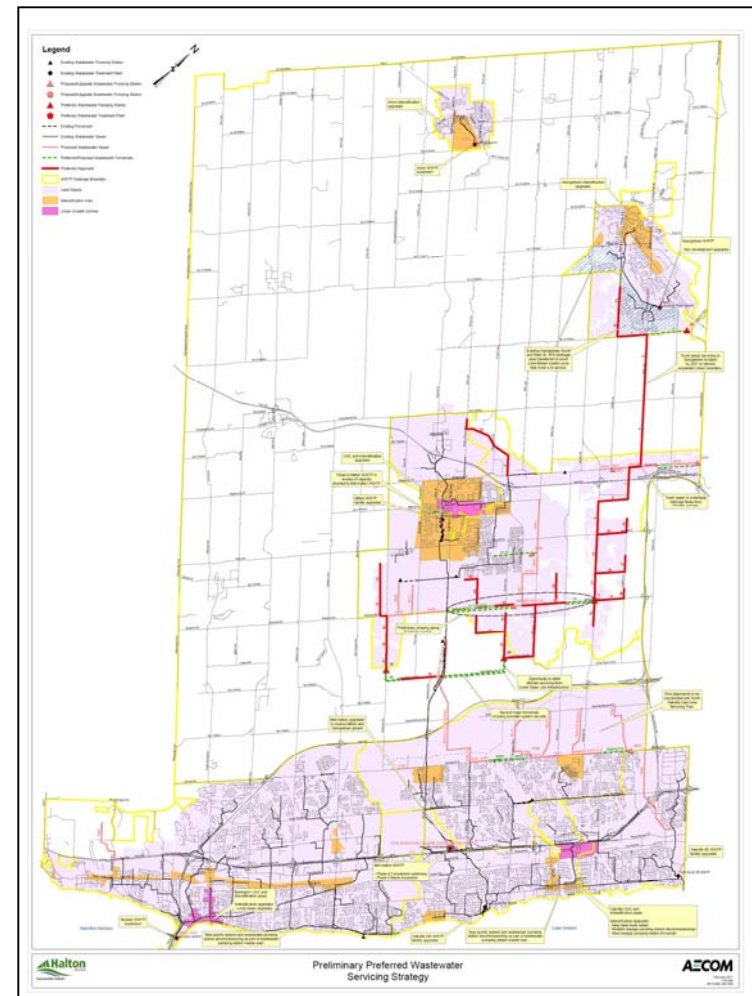


Wastewater Servicing Alternatives

Alternative 1 – Lower Base Line

Strategy

- Provide gravity servicing for Georgetown growth with consideration for peeling off existing Georgetown WWTP service areas.
- New 8th Ln/9th Ln/Trafalgar Rd trunk sewer to provide servicing for Georgetown, HH/401 Corridor and Trafalgar corridor
- New Trafalgar/Britannia WWPS to pump flows west to the continuation of the trunk sewer on Britannia Rd.
- Trunk sewer continues south to the Lower Base Line (LBL) WWPS which pumps west across 16 Mile Creek to the new RR25 trunk sewer

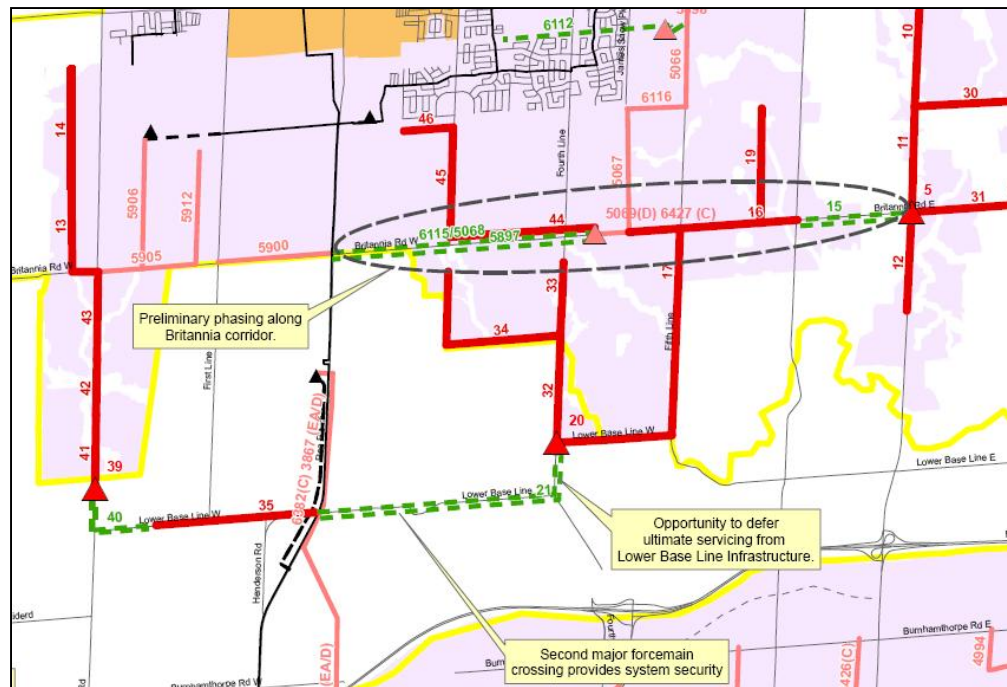


Wastewater Servicing Alternatives

Alternative 1 – Lower Base Line

Phasing Opportunities

- Oversizing at Britannia/James Snow Parkway (JSP) WWPS will allow for phased growth along Britannia corridor
- Trafalgar Corridor, HH/401 Corridor and Georgetown can develop once the 9th Line/Trafalgar trunk and Britannia/Trafalgar WWPS are in place, sending flows west to the Britannia/JSP WWPS on an interim basis
- As the Britannia/JSP WWPS reaches its capacity, the 5th Ln sewer, LBL sewer and LBL WWPS will be required for the ultimate service area.

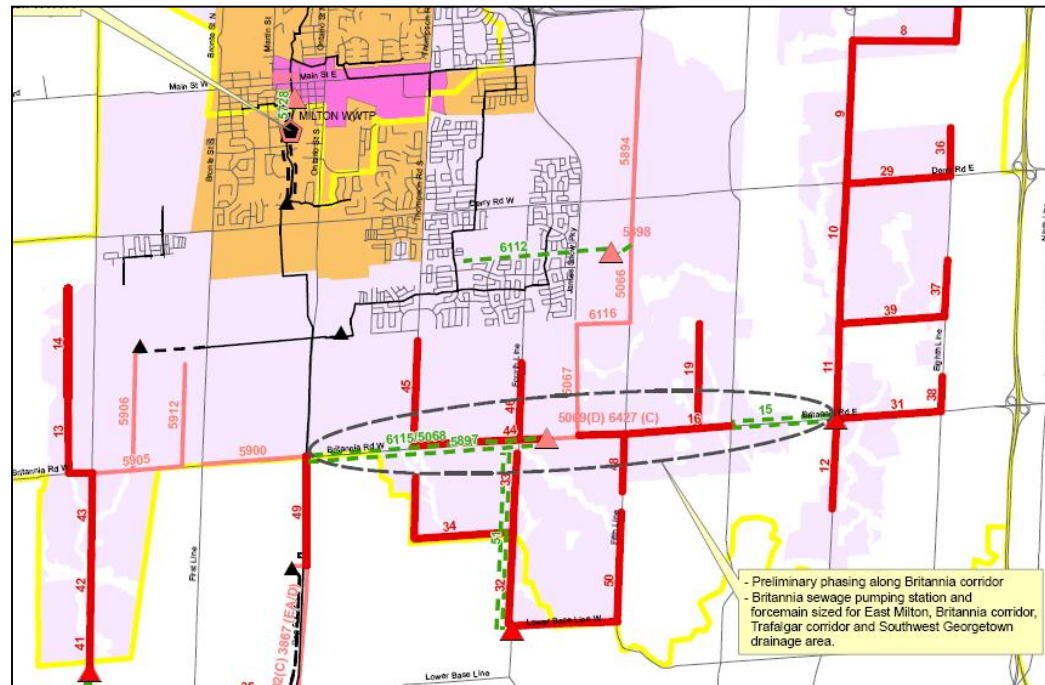


Wastewater Servicing Alternatives

Alternative 2 – Britannia

Phasing Opportunities

- Britannia/James Snow Parkway (JSP) WWPS sized for ultimate catchment area and can accommodate flows from phased development along Britannia corridor, Trafalgar Corridor, HH/401, and Georgetown as trunk infrastructure is constructed towards the east and north.
- Servicing south of Britannia will require the smaller LBL WWPS pumping north and gravity sewers on 4th Ln, 5th Ln and Lower Base Line.

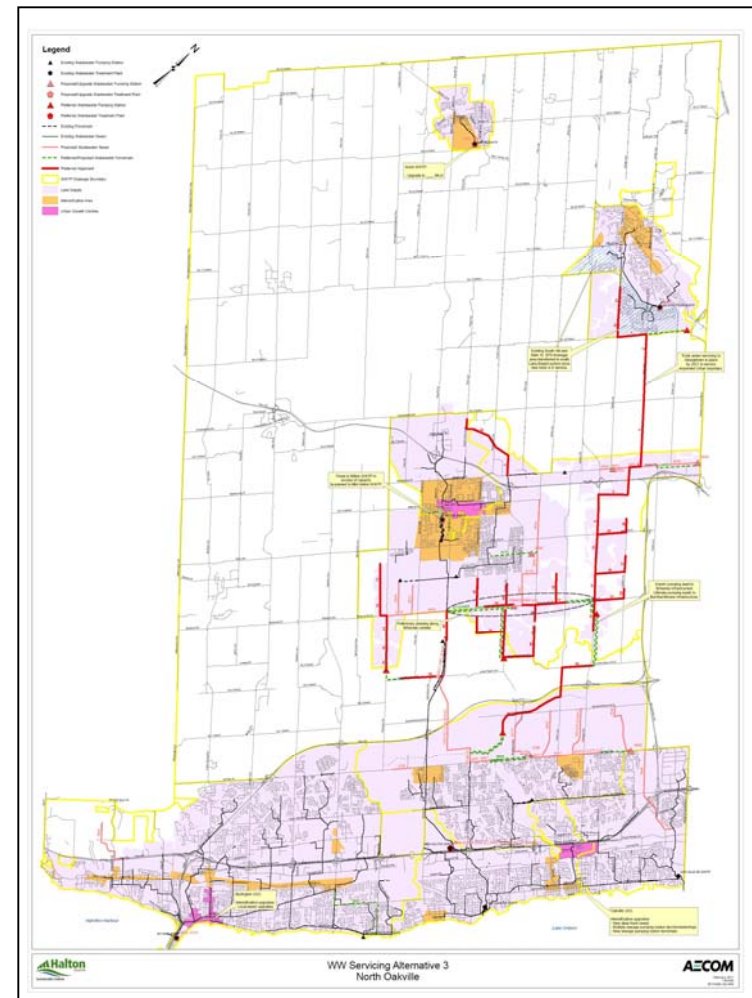


Wastewater Servicing Alternatives

Alternative 3 – North Oakville

Strategy

- Provide gravity servicing for Georgetown growth with consideration for peeling off existing Georgetown WWTP service areas.
- New 8th Ln/9th Ln/Trafalgar Rd trunk sewer to provide servicing for Georgetown, HH/401 Corridor and Trafalgar Corridor
- New Trafalgar/Britannia WWPS to pump flows south to the continuation of trunk sewer along Lower Base Line, 6th Line and New Burnhamthorpe Rd.
- Burnhamthorpe trunk sewer flows to new Burnhamthorpe WWPS which pumps across 16 Mile Creek to RR25 trunk sewer
- Flows south of Britannia and along the Britannia corridor flow to the Britannia/JSP WWPS via gravity sewers and/or new LBL WWPS

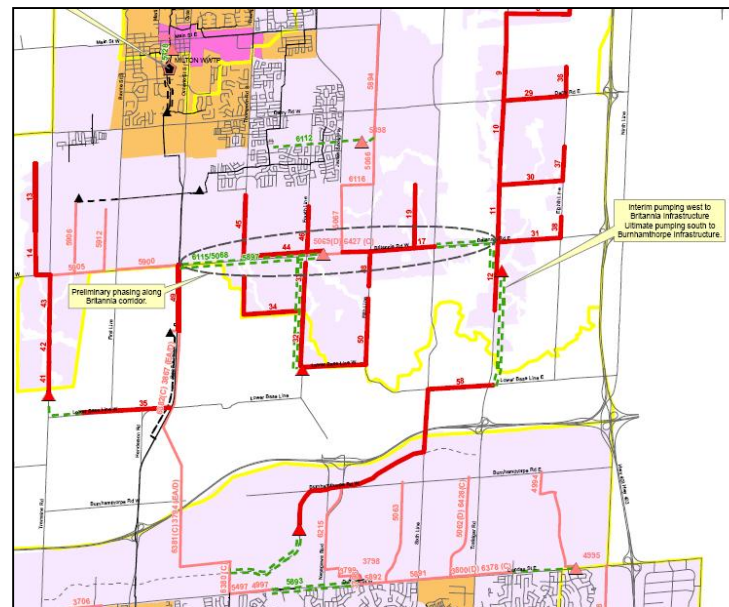


Wastewater Servicing Alternatives

Alternative 3 – North Oakville

Phasing Opportunities

- Britannia/JSP WWPS sized for east and southeast Milton catchment area. Servicing south of Britannia will require the smaller LBL WWPS pumping north as well as gravity sewers on 4th Ln, 5th Ln and Lower Base Line
- Trafalgar Corridor, HH/401 Corridor and Georgetown can be serviced on an interim basis by Trafalgar/Britannia WWPS pumping west to the Britannia Trunk and Britannia/JSP WWPS
- As Britannia/JSP WWPS reaches its capacity, Trafalgar/Britannia WWPS pumps flows to the south. Trunk sewers on LBL, 6th Line and Burnhamthorpe as well as Burnhamthorpe WWPS will be required for the ultimate service area

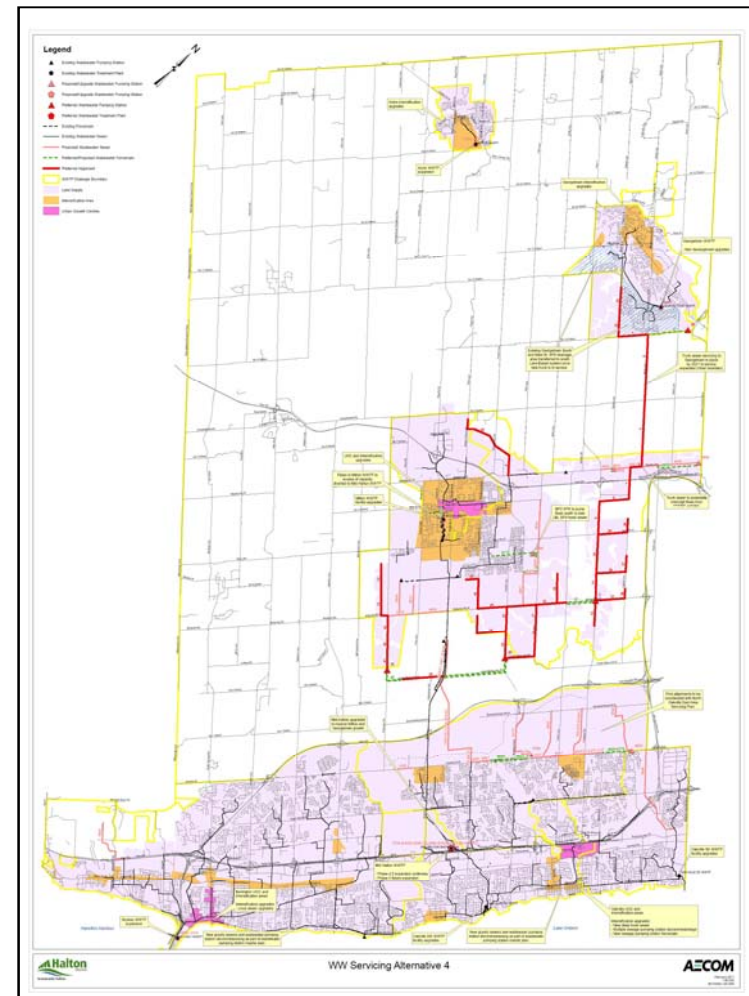


Wastewater Servicing Alternatives

Alternative 4 – Modified Lower Base Line

Strategy

- Provide gravity servicing for Georgetown growth with consideration for peeling off existing Georgetown WWTP service areas.
- New 8th Ln/9th Ln/Trafalgar Rd trunk sewer to provide servicing for Georgetown, HH/401 Corridor and Trafalgar corridor
- New Trafalgar/Britannia WWPS to pump flows west to the continuation of the trunk sewer on Britannia Rd.
- Trunk sewer continues south to the Lower Base Line (LBL) WWPS which pumps west across 16 Mile Creek to the new RR25 trunk sewer
- Eliminate previously recommended WWPS at Britannia Rd and James Snow Parkway
- BPII WWPS pumps south to new Milton Trunk Sewer, which bypasses previous location of Britannia/JSP WWPS and continues south to LBL WWPS

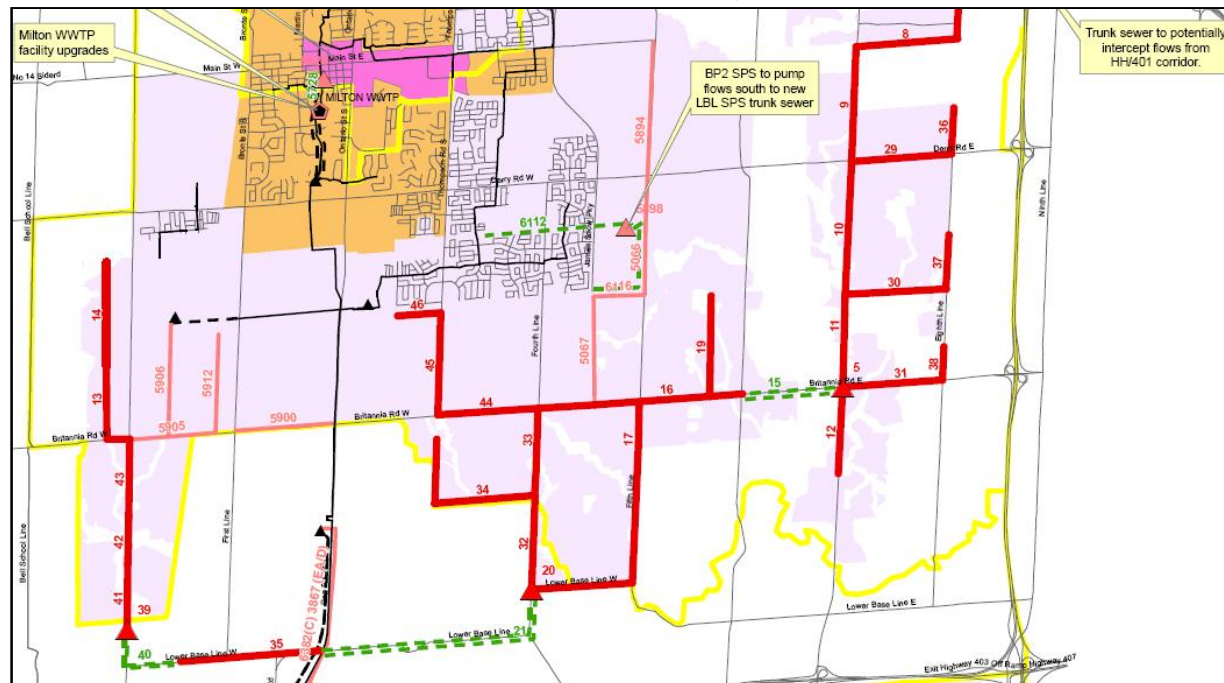


Wastewater Servicing Alternatives

Alternative 4 – Modified Lower Base Line

Phasing Opportunities

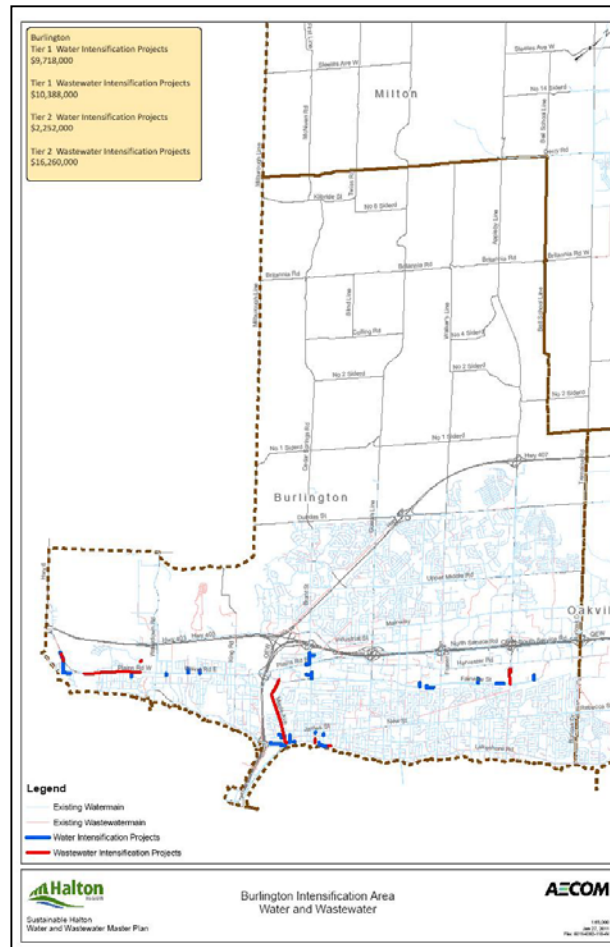
- LBL WWPS and gravity sewer on 4th Line or 5th Ln required for South Milton or Britannia Corridor to develop
- Trafalgar Corridor, HH/401 Corridor and Southwest Georgetown can develop once the 9th Line/Trafalgar trunk , Britannia/Trafalgar WWPS, Britannia/5th Line Trunk and LBL WWPS are in place
- The LBL WWPS can be sized for preliminary flows with consideration for future upgrades/expansions



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – Intensification

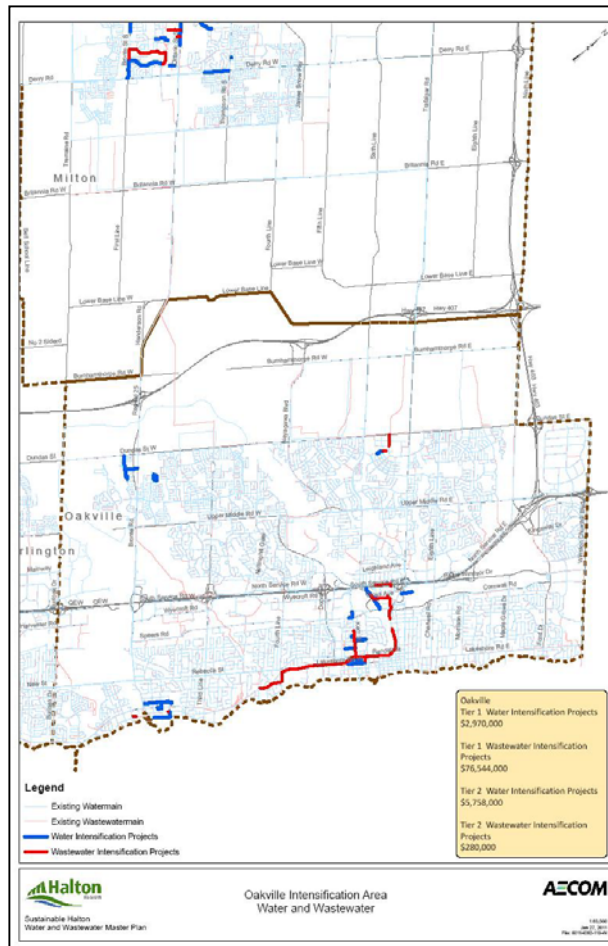
Burlington



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – Intensification

Oakville

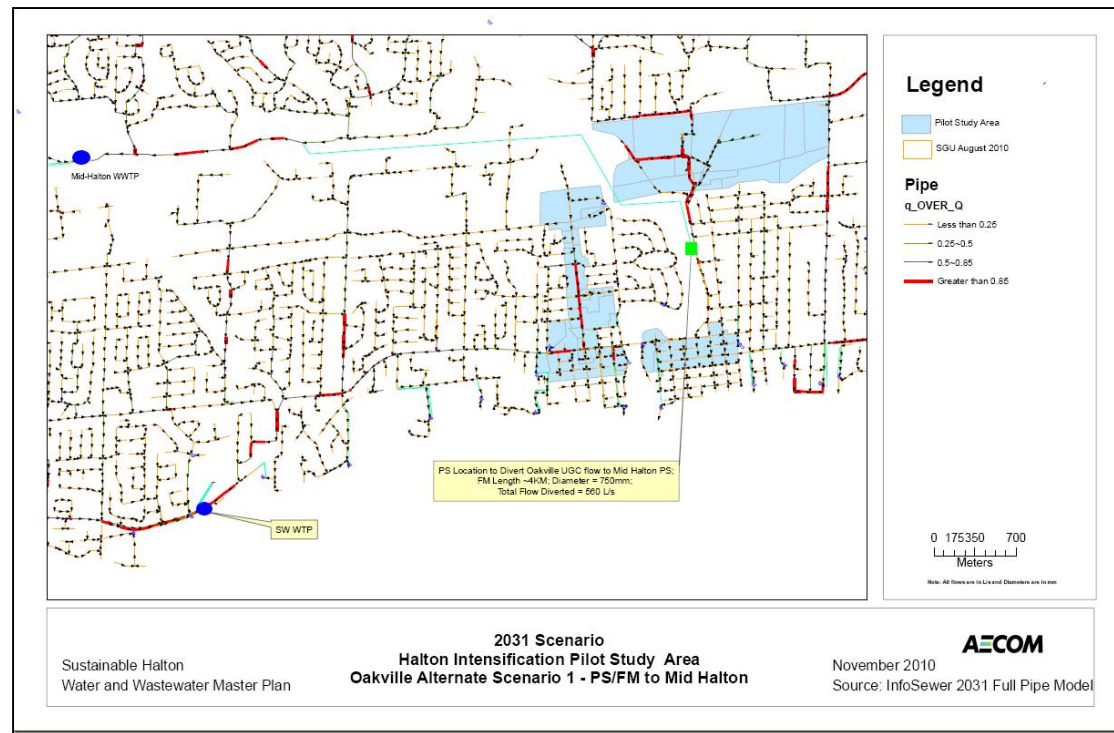


South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – Oakville UGC

Oakville Urban Growth Centre Alternative 1

- Construction of new Wastewater Pumping Station to pump flows north across 16 Mile Creek and QEW to Mid-Halton WWTP

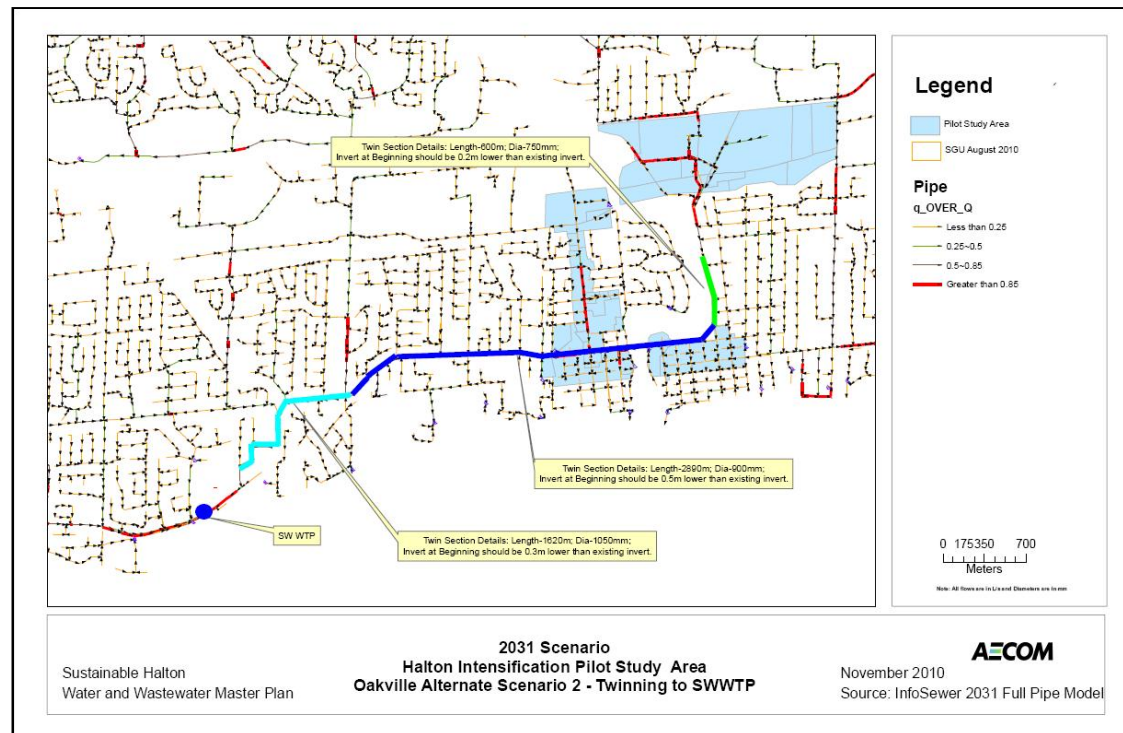


South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – Oakville UGC

Oakville Urban Growth Centre Alternative 2

- Construction of new Rebecca St trunk sewer twin from south of Oakville UGC to Oakville SW WWTP

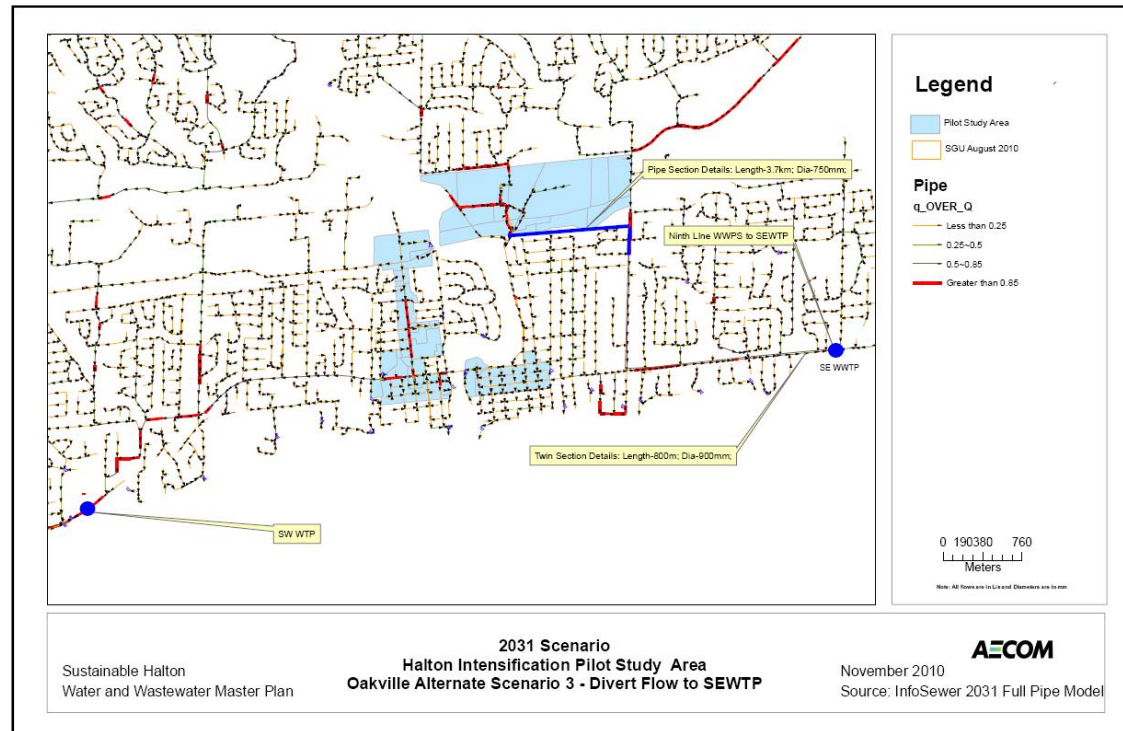


South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – Oakville UGC

Oakville Urban Growth Centre Alternative 3

- Construction of new gravity sewer diversion to take UGC flows to the east to Oakville SE WWTP



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – WWPS Master Plan

- Burlington Skyway WWTP Strategy (West Trunk)



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – WWPS Master Plan

- Burlington Skyway WWTP Strategy (East Trunk)



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – WWPS Master Plan

- Oakville SW WWTP Strategy (West Trunk)



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – WWPS Master Plan

- Oakville SW WWTP Strategy (East Trunk)



South Halton Wastewater Servicing Strategy

South Halton Servicing Considerations – WWPS Master Plan

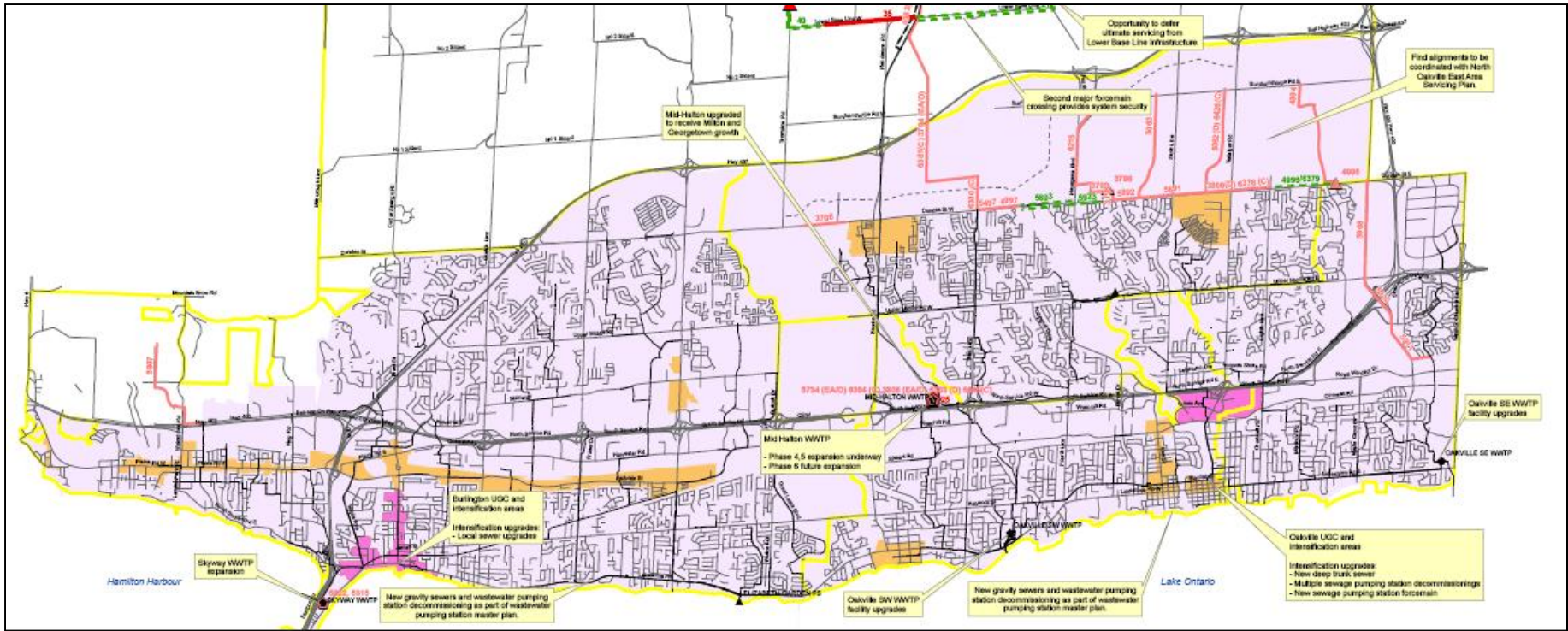
- Oakville SE WWTP Strategy



South Halton Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for South Halton is as follows:
 - Existing plants continue to service existing drainage area
 - Expand/upgrade Skyway & Mid-Halton WWTPs
 - Mid Halton WWTP to service existing drainage area plus Milton & Georgetown new growth
 - Decommission pumping stations and construct new gravity sewers in Oakville & Burlington
 - Construct two new pumping stations and forcemains to service new growth areas
 - Coordinate servicing strategy with Sewage Pumping Station Master Plan recommendations
- Rationale is to:
 - Minimize pumping, operation, and maintenance costs
 - Coordinate with phasing of growth/development
 - Build off existing & planned infrastructure
 - Expand/upgrade collection system to accommodate intensification

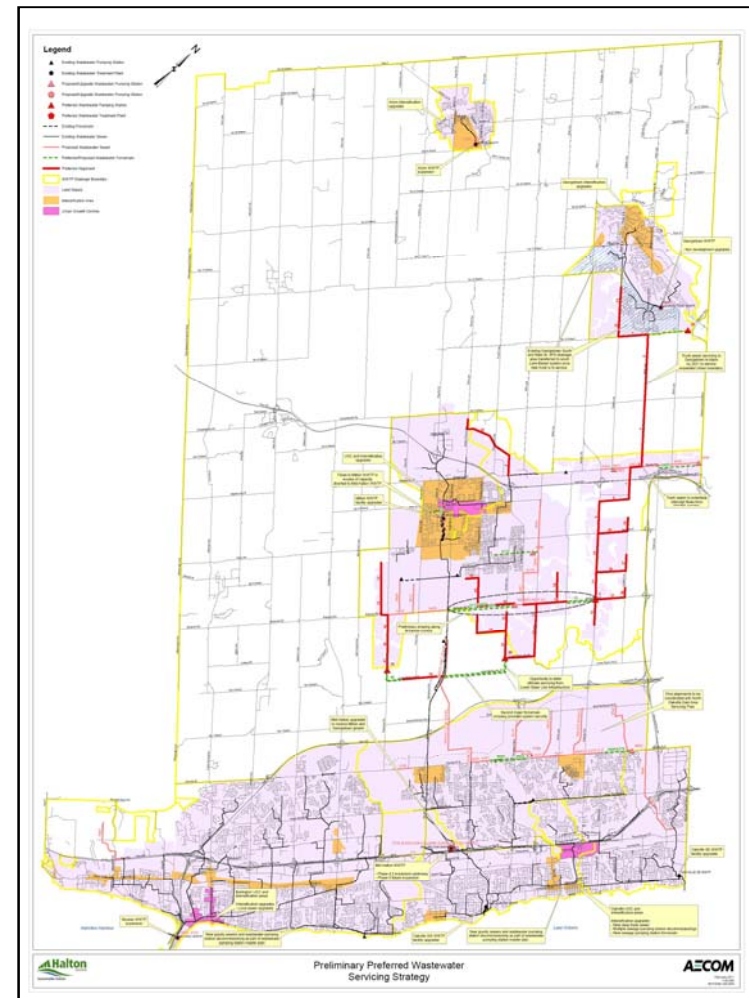
South Halton Wastewater Servicing Strategy



Preferred Wastewater Servicing Alternative

Summary:

- Allow the Acton system to operate independently
- Allow the Georgetown WWTP to service existing area and service greenfield growth through the lake based system
- Continue to divert flow from Milton to Mid Halton
- Provide an opportunity to review existing and future service areas
- Mid Halton WWTP to service existing drainage area plus new growth in Georgetown and Milton
- Consideration to phasing of development and infrastructure requirements to support phased growth
- Evaluated gravity sewer solution in place of existing pumping system within southern collection system
- Evaluated alternative sanitary sewer and forcemain alignments
- Considered topographical constraints and pumping requirements
- Consideration to diversion of flows in excess of treatment capacity



Next Steps

- PIC Dates
 - Oakville – Feb. 16
 - Burlington – Feb 17
 - Milton – Feb 22
 - Halton Hills – Feb 24



Serving our Communities and our Environment

Sustainable Halton Water & Wastewater Master Plan

Agenda

1. Introductions & Meeting Objectives
2. Background
3. Key Issues & Discussion Items
4. Water Servicing
5. Wastewater Servicing
6. Preliminary Strategies
7. Next Steps

Meeting Objectives

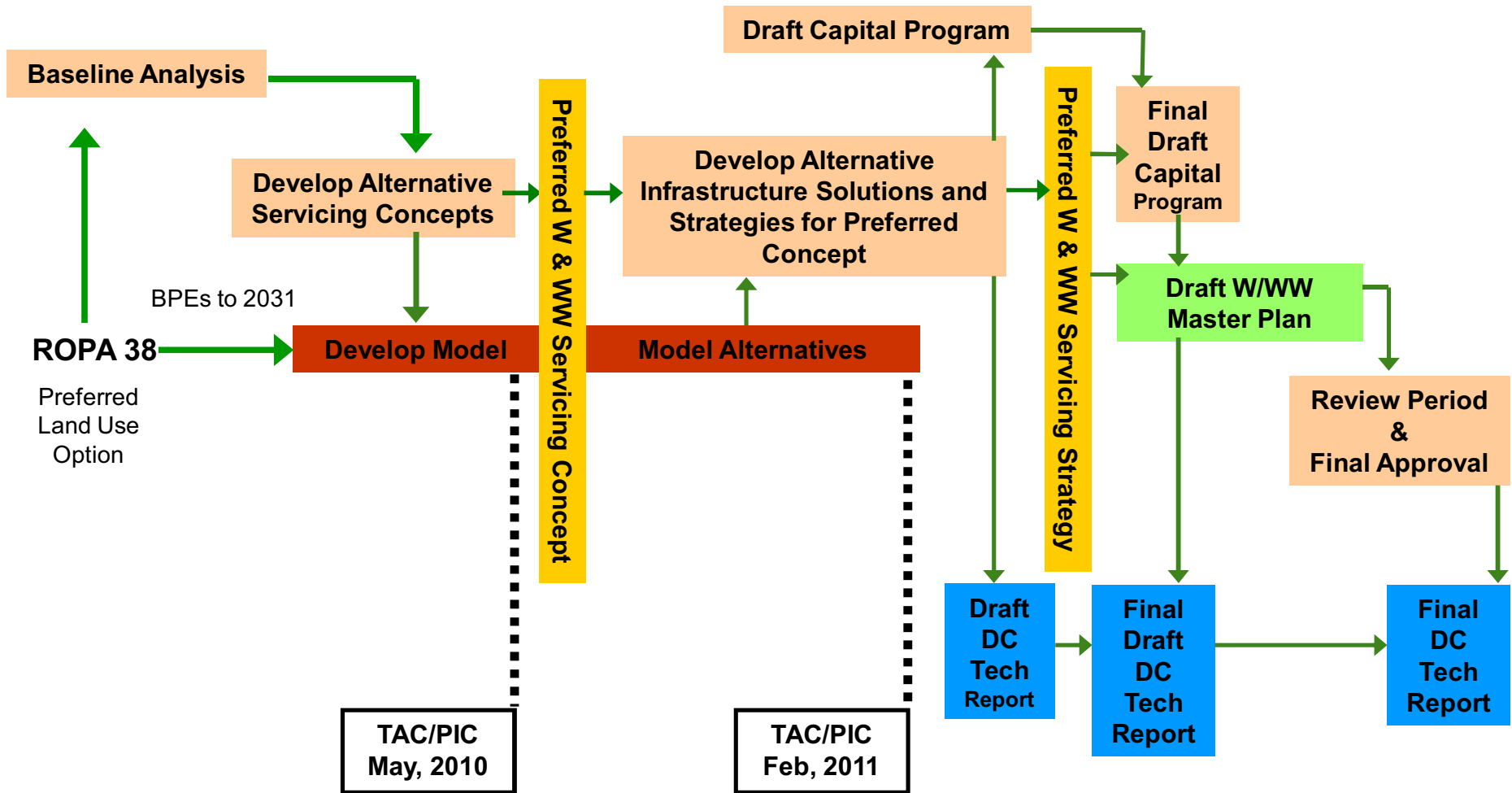
- Review key servicing issues
- Discuss alternative servicing solutions
- Present preliminary preferred servicing strategy
- Gather feedback

Objectives of the Master Plan Study

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and business in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for 780,000 people & 390,000 jobs by 2031
 - A growth of 300,000 people & 170,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Develop a capital implementation program for the preferred servicing strategy.

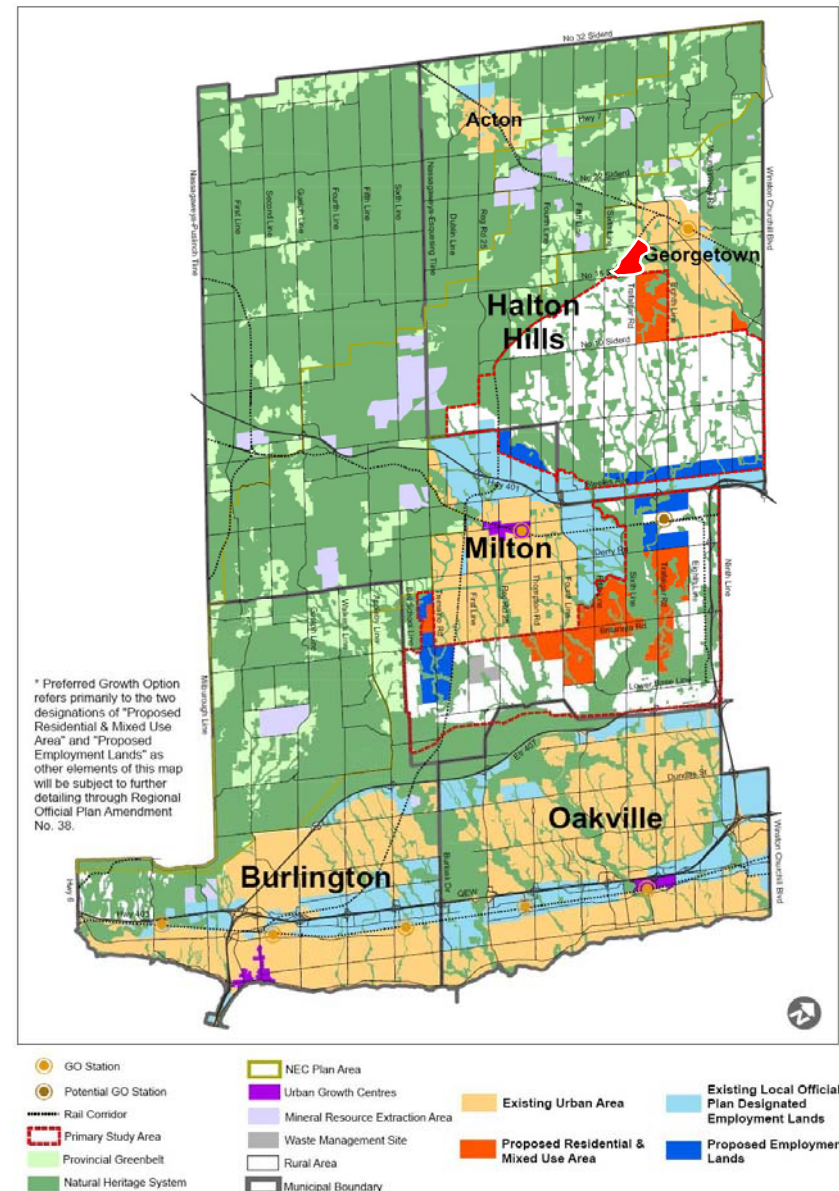
Master Plan Process

Jul to Dec, 2009	Jan to Jun, 2010	Jul, 2010 to	Mar, 2011	Apr/May, 2011	Jun/Jul, 2011
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Preferred Growth Option

- 2009 to 2031 Growth:
 - Residential (serviced): 68,000 to 221,000 people
 - Non-Residential (serviced): 34,700 to 110,600 employees
- Expansion of Urban Boundary- New Growth Areas in 2021-2031



Service Area Planning Projections

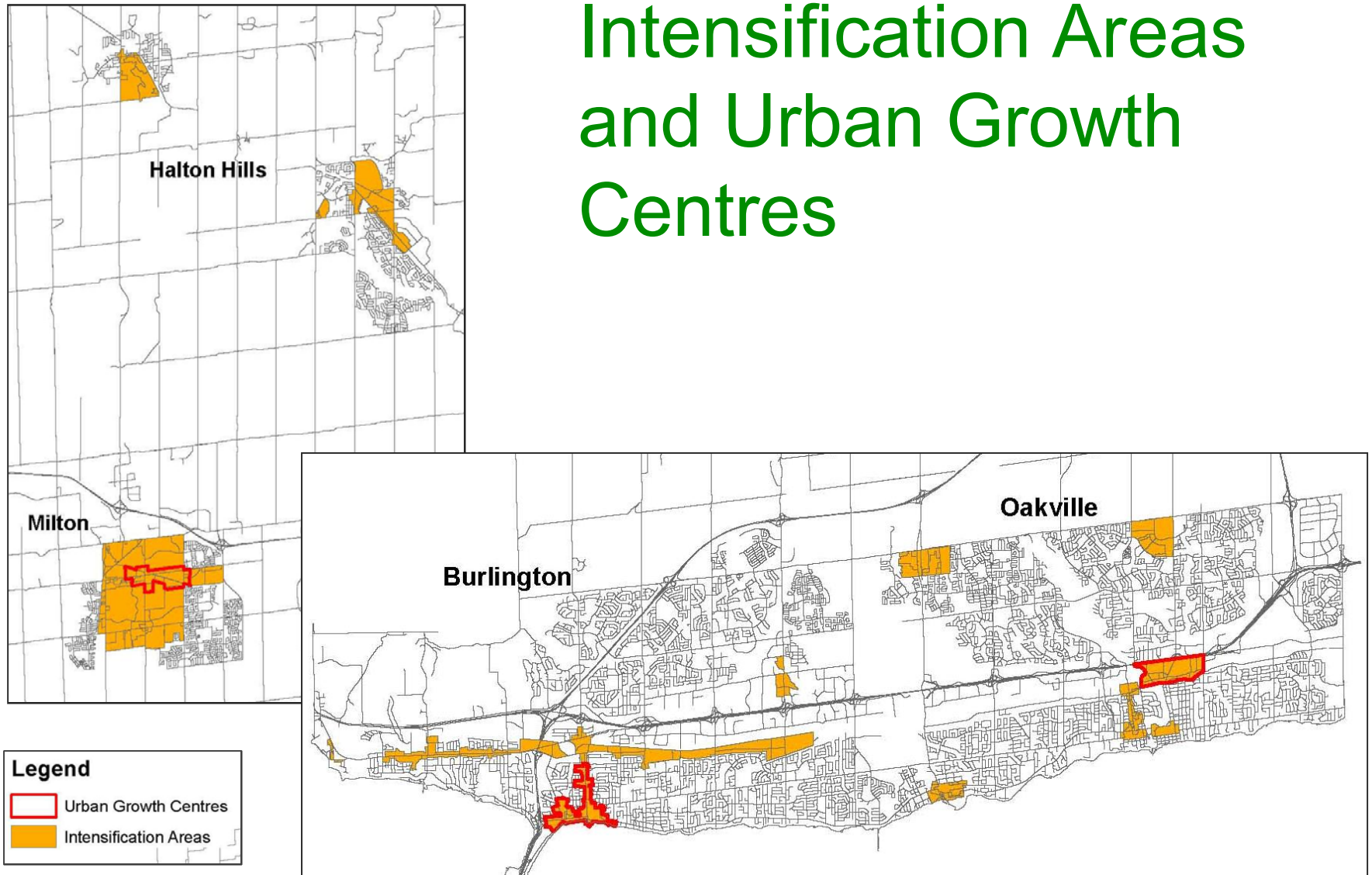
	Serviced Population (Persons)					
	2006	2011	2016	2021	2026	2031
Oakville	165,521	172,482	184,007	210,450	230,826	246,363
Burlington	160,797	170,386	172,292	175,208	178,488	182,080
Milton	47,825	81,088	117,468	155,797	186,700	221,240
Halton Hills 401 Corridor	0	0	0	0	0	0
Sub-Total	374,143	423,956	473,767	541,455	596,014	649,683
Acton	10,352	10,088	10,089	11,710	13,237	14,709
Georgetown	37,492	41,070	43,159	45,831	56,594	68,273

Note: Projections based on serviced area only and does not include rural population (BPE Data October 2010)

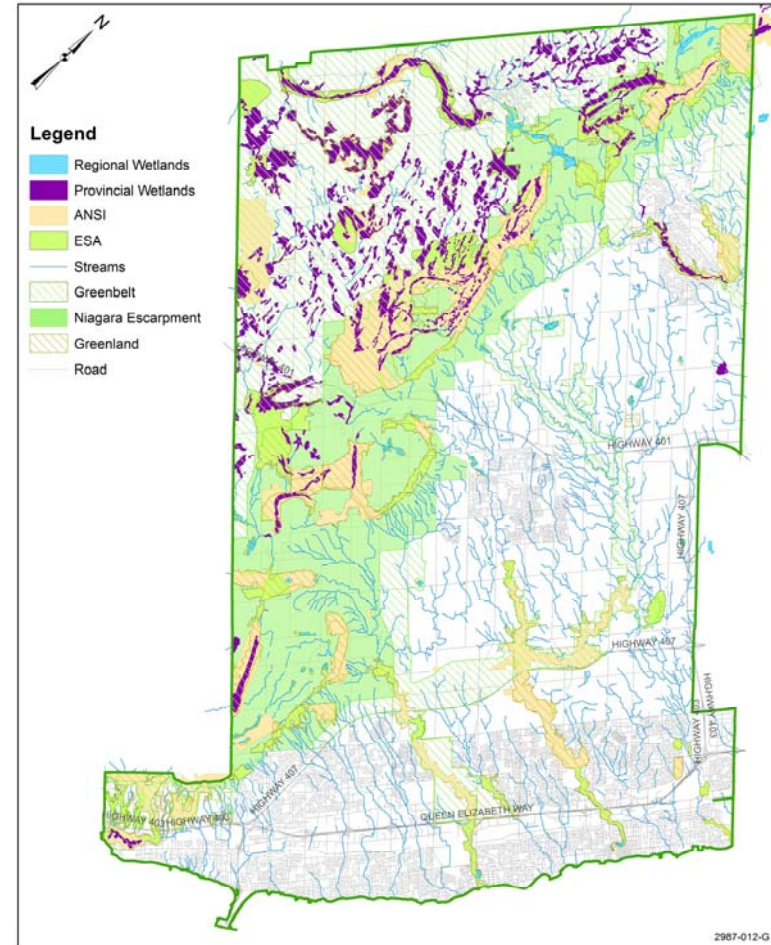
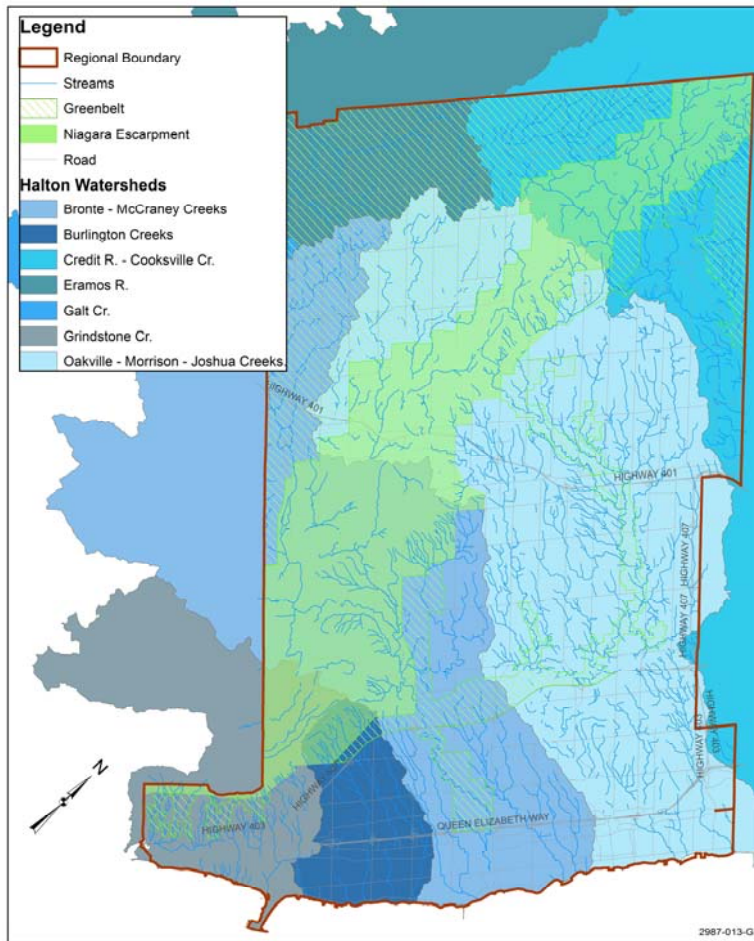
	Serviced Employment (Employees)					
	2006	2011	2016	2021	2026	2031
Oakville	82,089	86,938	99,371	117,366	119,358	127,000
Burlington	88,078	95,572	101,145	102,621	103,714	104,913
Milton	24,846	41,223	59,040	79,365	99,809	110,648
Halton Hills 401 Corridor	2,014	4,938	8381	10,891	15,843	19,581
Sub-Total	197,027	228,671	267,937	310,243	338,724	362,142
Acton	3,642	4,087	4,377	4,613	4,765	5,071
Georgetown	11,393	11,914	11,739	11,636	13,161	14,563

Note: Projections based on serviced area only and does not include rural employment (BPE Data October 2010)

Intensification Areas and Urban Growth Centres



Existing Watersheds and Environmental Features



Key Issues & Discussion Items

Water:

- Groundwater supply vs projected demand
- Increased well supply vs ecological impact
- Need to switch over existing service areas
- Water Balance Requirements
- Security of Supply / Emergency Connection
- Northern system impact on south system

Wastewater:

- Stream based assimilative capacity
- Northern system impact on south system

General:

- Major Environmental Crossings
- Intensification Impact
- Financial Balance
- Build-out Servicing

Water



Water - Acton

Issues/Constraints:

- Existing well supply not sufficient to meet projected growth
- Need for treatment upgrade
- Existing storage capacity constraints
- Isolated system
- Water Balance Requirements
- Existing urban boundary will remain

Opportunities:

- Upgrade well supply:
 - Increase existing supply to meet 2031 growth
 - Investigate new supplies (new well, interconnection with Georgetown, aquifer recharge)
- Evaluate treatment upgrades & storage alternatives



Solutions:

- Maintain independent system & groundwater supply
- Provide supply through a new well and upgrade existing wells
- Upgrade treatment & storage

Water - Georgetown

Issues/Constraints:

- Existing well supply not sufficient to meet growth
- Emergency connection required or security of supply
- Existing storage constraints (operational & quantity)
- Hamlet servicing requirement
- Expanded urban boundary (large greenfield growth)

Opportunities:

- Upgrade well supply:
 - Increase existing supply to meet 2031 growth
 - Investigate new water supply options (new wells, interconnection with South Halton or with Peel, aquifer recharge)
- Evaluate storage alternatives



Solutions:

- System cannot be maintained on groundwater only
- Connect some areas of Georgetown to a lake based system
- Provide emergency supply through a lake based system
- Increase storage
- Review impacts to lake based system & water balance

Water - Milton

Issues/Constraints:

- Existing well supply not sufficient to meet current & projected growth
- Constrained wells:
 - Walker's Line – limited supply, not meeting PTTW, water quality issues, surge tank/watermain issues, costly to run, high cost to upgrade/bring to capacity, existing customers on Walker's Line
 - Kelso – limited supply, not meeting PTTW
 - Capital spent without achieving desired results
- Kelso feedermain redundancy
- Political / public perception of maintaining groundwater service area

Opportunities:

- Investigate optimization & upgrade alternatives to increase well supply to meet 2031 growth
- Evaluate connection to lake based system



Solutions:

- System cannot be maintained on groundwater only
- Transfer some areas of Milton to South Halton lake based system
- Security of supply to Milton groundwater through lake based system
- In turn, creates impact on South Halton lake based system
- Review water balance

Water – South Halton

Issues/Constraints:

- Intensification impact on existing system
- Impact of transferring areas in Milton and Georgetown to lake based system
- Treatment capacity vs. projected demands
- Pressure zone boundary – level of service
- Burloak feedermain – Zone 1 /EW
- West to east transfer
- Build-out Servicing

Opportunities:

- Evaluate Oakville WWP and Burloak WWP upgrades
- Oversizing considerations
- Evaluate storage alternatives

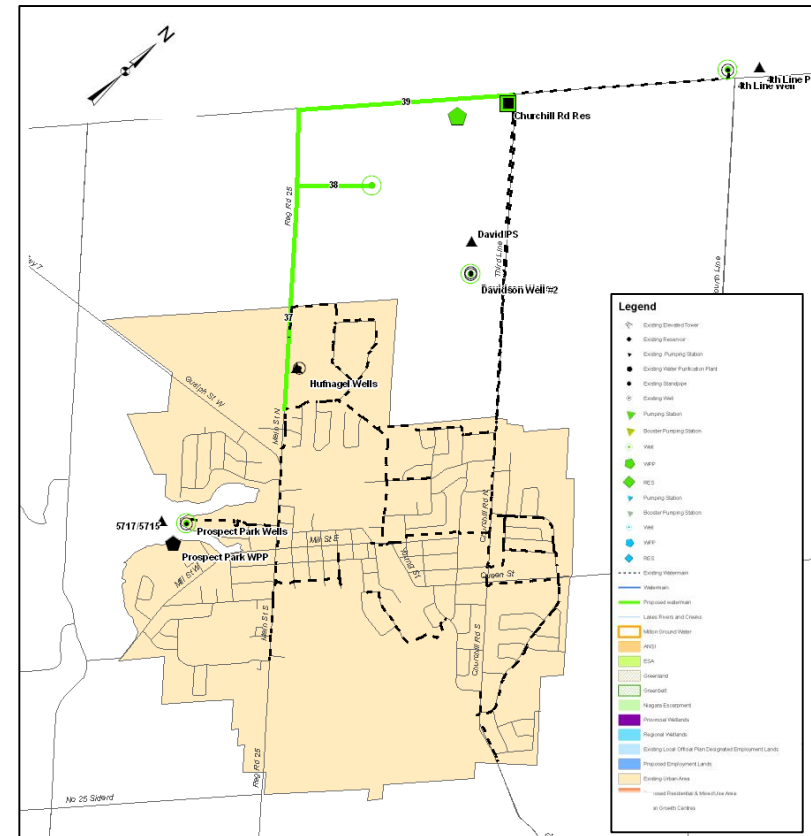


Solutions:

- Strengthen west to east transfer
- Feed to Burlington Zone 2 & Kitchen Reservoir from Burloak
- Feed to Washburn Pumping Station / redundancy of supply
- Increase pumping capacity to zones O/B2 and O/B3

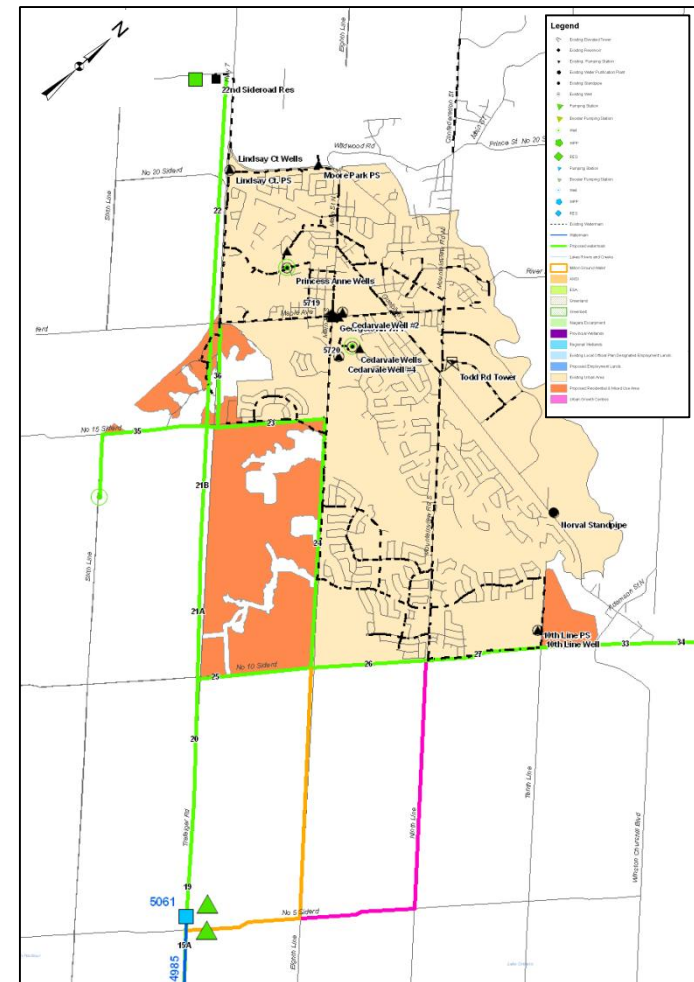
Acton Water Servicing Strategy

- Preliminary preferred water servicing strategy for Acton is as follows:
 - Stay on groundwater supply
 - Explore new well supplies & upgrade existing wells (4th Line & Prospect Park) to meet future demands
 - Upgrade existing reservoir to increase storage capacity
 - Provide centralized treatment
- Rationale is to:
 - Maximize available use of existing & planned infrastructure
 - Minimize impacts on environmental features



Georgetown Water Servicing Strategy

- Preliminary preferred water servicing strategy for Georgetown is as follows:
 - Maintain a groundwater supply service area
 - Upgrade existing wells (Lindsay Ct & Cedarvale) to meet future groundwater service area demands
 - Service new greenfield growth via lake based system
 - Switch over some existing service area to Lake-based
 - New Zone 6 reservoir at existing site, to provide additional storage capacity
- Rationale is to:
 - Increase security of supply
 - Minimize operation & maintenance costs
 - Coordinate with phasing
 - Minimize impacts on environmental features
 - Provide a Halton-only solution with emergency supply from Peel



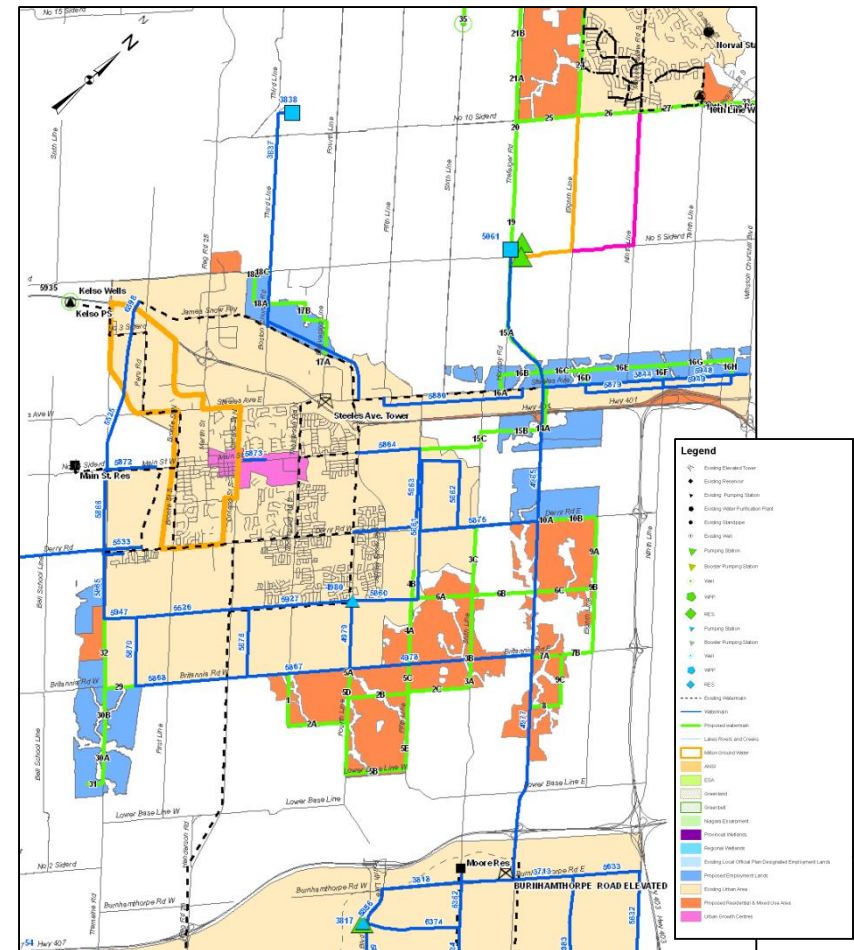
Milton Water Servicing Strategy

- Preliminary preferred water servicing strategy for Milton is as follows:

- Maintain a groundwater supply service area
- Upgrade existing Kelso wells
- Transfer areas in Milton to lake based system
- Build off existing planned Zone 4 & 5 infrastructure to service greenfield growth

- Rationale is to:

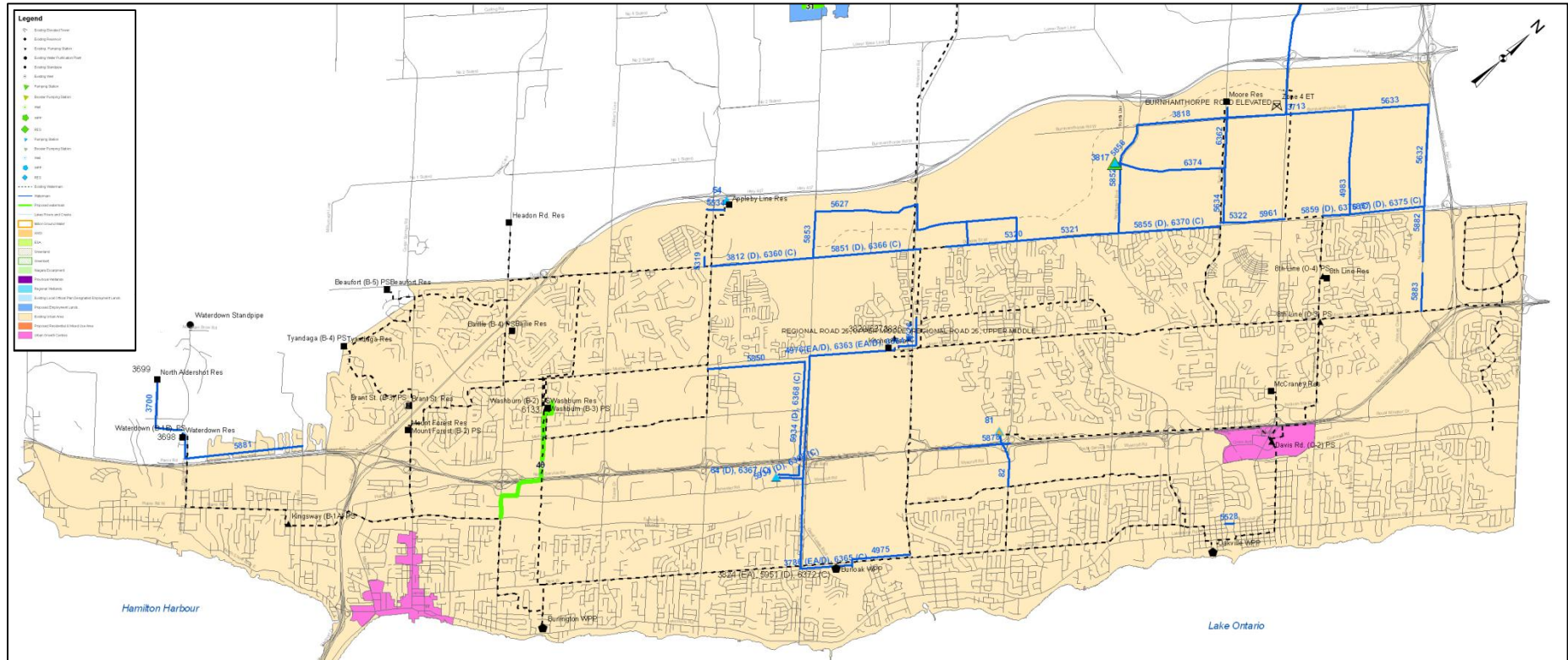
- Increase security of supply through lake based system
- Maximize available use of existing & planned infrastructure
- Coordinate with phasing
- Minimize impacts on environmental features
- Provide a Halton-only solution



South Halton Water Servicing Strategy

- Preliminary preferred water servicing strategy for South Halton is as follows:
 - Oakville WPP optimization
 - Burloak WPP capacity expansion
 - New feed to Washburn Pumping Station and Reservoir
 - Increase pumping capacities to zones 3, 4 and 5
 - New Zone 6 pumping to service Georgetown greenfield growth
- Rationale is to:
 - Increase security/redundancy of supply
 - Coordinate with phasing
 - Build off & maximize use of existing & planned infrastructure
 - Minimize operation & maintenance costs
 - Provide a Halton-only solution

South Halton Water Servicing Strategy



Wastewater



Key Wastewater Issues – Decommissioning of Local WWTPs

Key Considerations:

- Impacts to receiving water base flows
 - Water bodies receiving treated effluent have established flows that are dependent on the WasteWater Treatment Plants (WWTPs) (Milton/Acton)
- Impacts to water Balance
 - Diversion of flow to another catchment and possibly to a Lake Ontario based treatment facility. If water supply system is groundwater based, diverting treated effluent to a different catchment could present water balance issues
- Overall Economics
 - Opportunities for savings in maintenance, operation and management if smaller, older facilities are eliminated
 - Diversion due to plant decommissioning can generally require Sewage Pumping Stations (SPS), Forcemains (FM) and/or extensive gravity sewers
 - Increased capacity at a different treatment plant is required

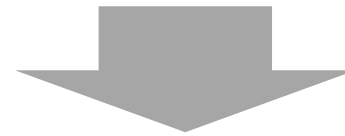
Wastewater - Acton

Issues/Constraints:

- Existing treatment capacity not sufficient to meet projected growth
- High inflow & infiltration
- Isolated service area
- Planned growth is within existing urban boundary (smaller scale growth)
- Stream based assimilative capacity criteria restrictive for expansion
- Need to consider minimum flows in receiving streams and water balance

Opportunities:

- Investigate increase in plant capacity
- Investigate new plant / diversion
- Reduce levels of inflow & infiltration



Solutions:

- Expand plant

Wastewater - Georgetown

Issues/Constraints:

- Existing treatment capacity not sufficient to meet 2031 flows
- Isolated system
- Topographical constraints may require pumping
- Large, Greenfield service area growth
- Intensification
- Stream based stringent effluent criteria requires to be met if expanded

Opportunities:

- Expand treatment plant to service growth
- Divert flow to South Halton drainage system
- Divert flow to Peel
- Combination of above
- Review existing and future service areas



Solutions:

- Existing plant to service existing service areas & Hamlets
- Greenfield growth serviced by new gravity drainage to south system

Wastewater - Milton

Issues/Constraints:

- Existing treatment capacity not sufficient to meet projected growth
- Existing system already diverting flow in excess of treatment capacity
- Stream based stringent effluent criteria requires to be met if expanded
- Existing & planned infrastructure sized to divert flow in excess of existing plant capacity
- Milton experiencing majority of post 2021 new growth
- Divided drainage areas due to environmental features
- Majority of new growth not easily serviced by gravity
- Growth is distributed
- Phasing challenges

Opportunities:

- Continue to divert existing Milton WWTP drainage area in excess of capacity to south system
- Utilize existing and planned trunk infrastructure to service new areas from Milton to south system
- Network of gravity and SOS/forcemains to service new growth
- Inter-regional solution



Solutions:

- Above without inter-regional
- Size south treatment plant to accommodate future Milton / Georgetown flows

Wastewater – South Halton

Issues/Constraints:

- Potential impact on existing infrastructure with additional intensification flow
- Continued operation & maintenance cost of existing collection system
- High number of existing sewage pumping stations
- Existing treatment capacity of Skyway WWTP not sufficient to meet projected growth
- Oakville plants close to reaching capacity by 2031 with existing service areas
- Skyway WWTP required to meet RAP targets

Opportunities:

- Existing plants to continue to service existing drainage area
- Mid-Halton to service existing drainage area plus Milton & Georgetown new growth
- Inter-regional option
- Look to expand existing lake based plants
- Decommission pumping stations and build deep trunks in Oakville & Burlington



Solutions:

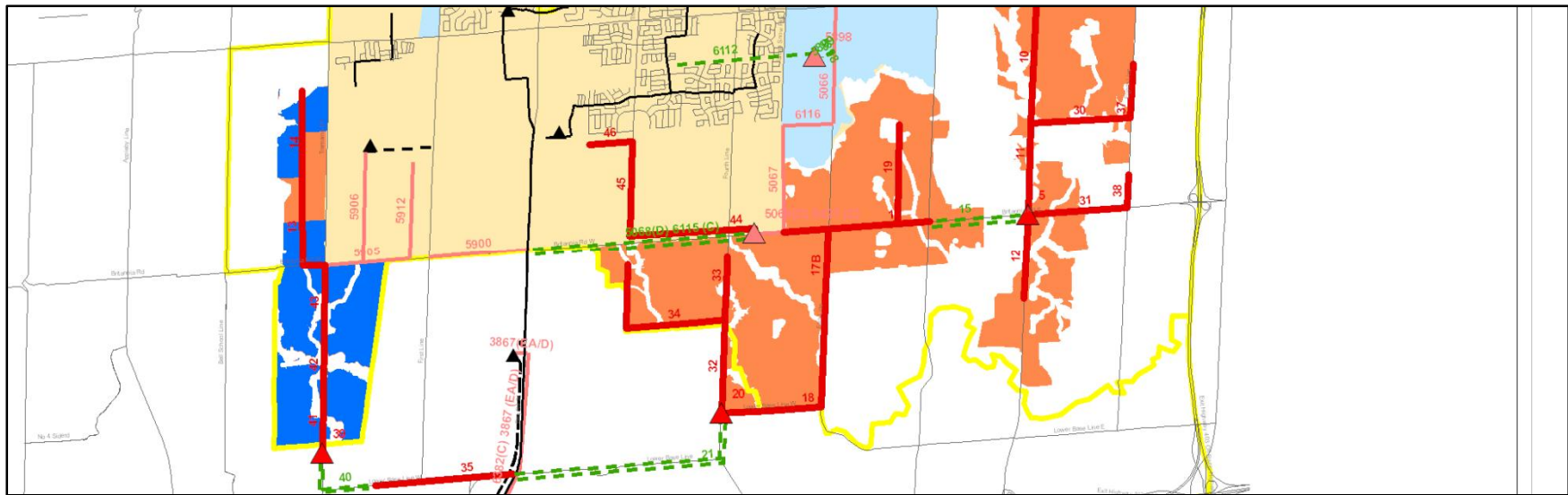
- Above with implementing gravity sewer solution in place existing pumping station/forcemain servicing in the south system

Wastewater Servicing Alternatives

Alternative 1 – Lower Base Line

Phasing Opportunities

- Oversizing at Britannia/James Snow Parkway (JSP) SPS will allow for phased growth along Britannia corridor
- Trafalgar Corridor, HH/401 Corridor and Georgetown can develop once the 9th Line/Trafalgar trunk and Britannia/Trafalgar SPS are in place, sending flows west to the Britannia/JSP SPS on an interim basis
- As the Britannia/JSP SPS reaches its capacity, the 5th Ln sewer, LBL sewer and LBL SPS will be required for the ultimate service area.

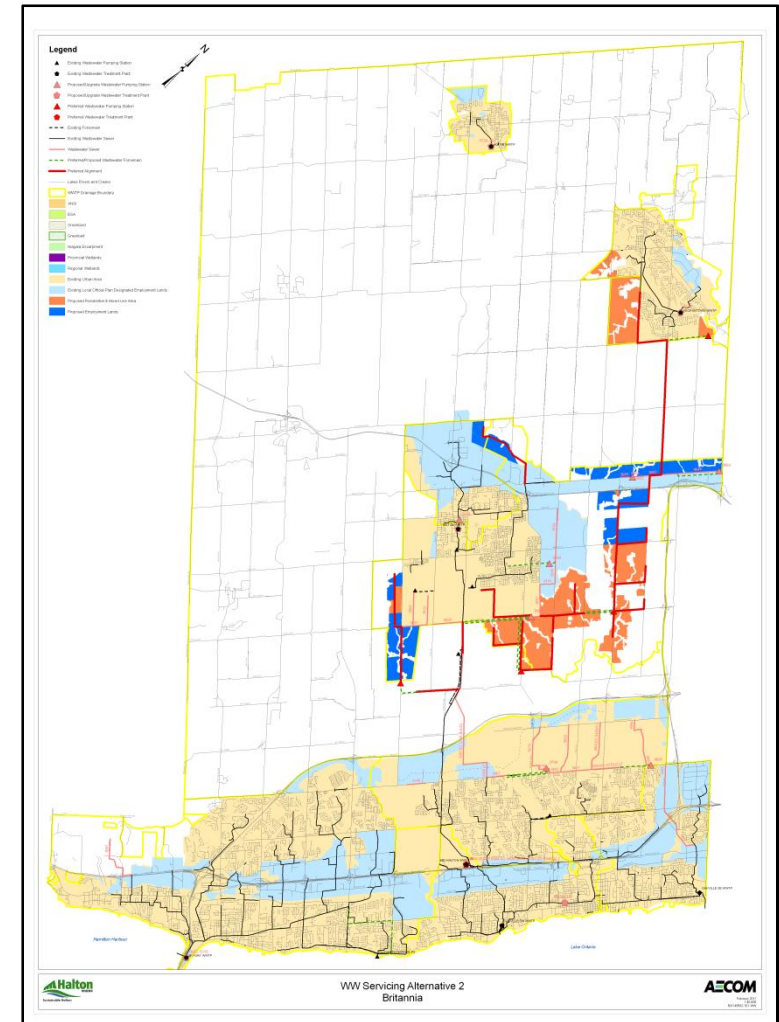


Wastewater Servicing Alternatives

Alternative 2 – Britannia

Strategy

- Provide gravity servicing for Georgetown growth with consideration for peeling off existing Georgetown WWTP service areas.
- New 8th Ln/9th Ln/Trafalgar Rd trunk sewer to provide servicing for Georgetown, HH/401 Corridor and Trafalgar Corridor
- New Trafalgar/Britannia SPS to pump flows west to the continuation of trunk sewer on Britannia Rd.
- Trunk sewer continues west to the Britannia/JSP SPS, which pumps across 16 Mile Creek to RR25 trunk sewer
- Flows south of Britannia flow south to the Lower Base Line (LBL) SPS which pumps north to the Britannia/JSP SPS

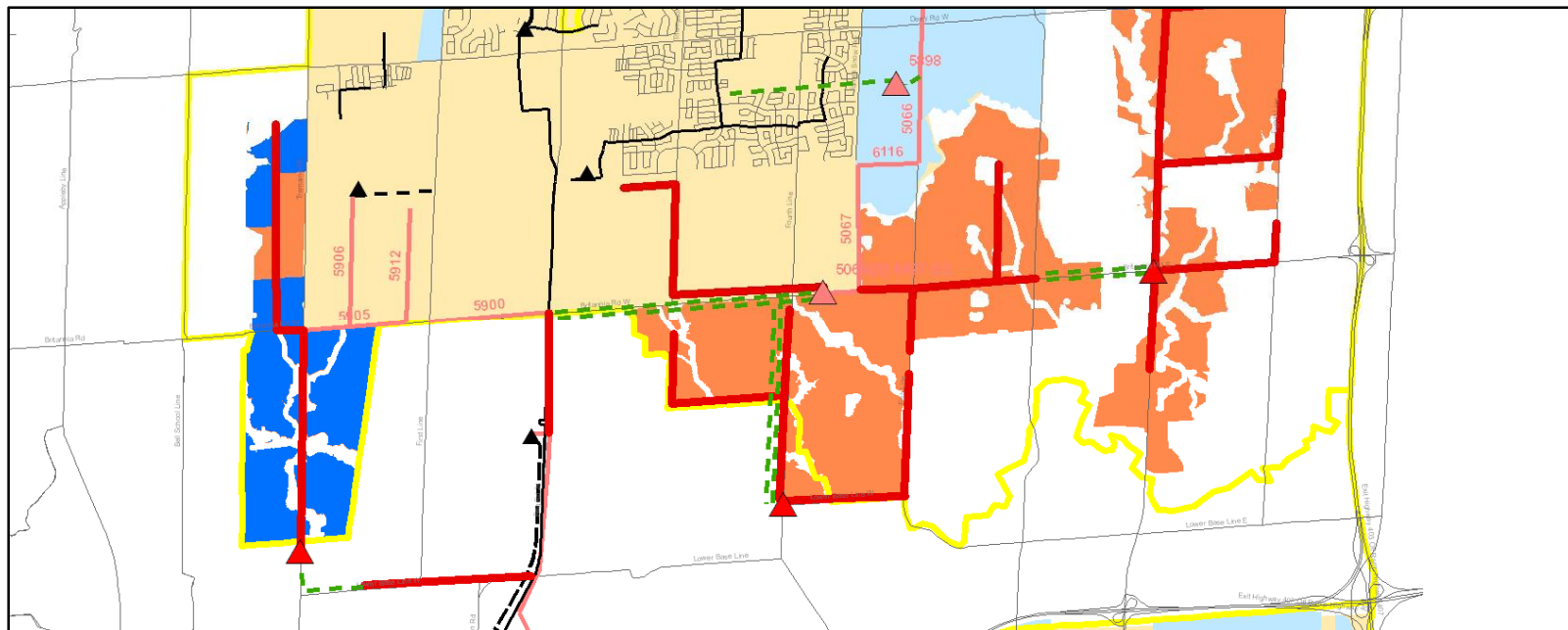


Wastewater Servicing Alternatives

Alternative 2 – Britannia

Phasing Opportunities

- Britannia/James Snow Parkway (JSP) SPS sized for ultimate catchment area and can accommodate flows from phased development along Britannia corridor, Trafalgar Corridor, HH/401, and Georgetown as trunk infrastructure is constructed towards the east and north.
- Servicing south of Britannia will require the smaller LBL SPS pumping north and gravity sewers on 4th Ln, 5th Ln and Lower Base Line.

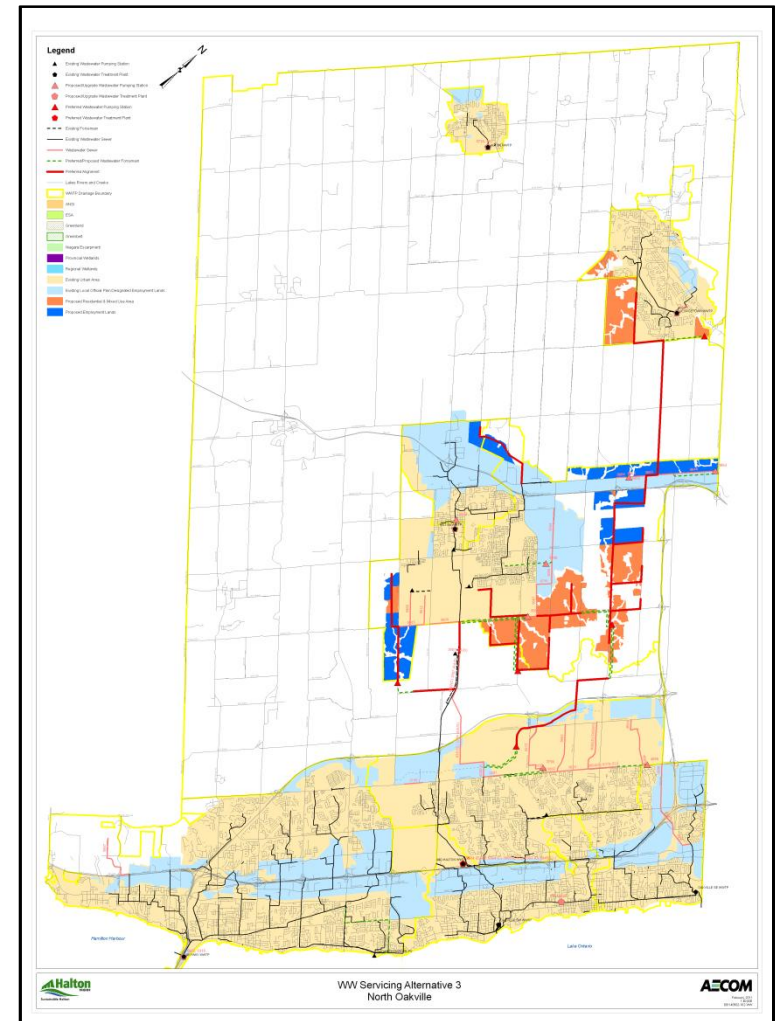


Wastewater Servicing Alternatives

Alternative 3 – North Oakville

Strategy

- Provide gravity servicing for Georgetown growth with consideration for peeling off existing Georgetown WWTP service areas.
- New 8th Ln/9th Ln/Trafalgar Rd trunk sewer to provide servicing for Georgetown, HH/401 Corridor and Trafalgar Corridor
- New Trafalgar/Britannia SPS to pump flows south to the continuation of trunk sewer along Lower Base Line, 6th Line and New Burnhamthorpe Rd.
- Burnhamthorpe trunk sewer flows to new Burnhamthorpe SPS which pumps across 16 Mile Creek to RR25 trunk sewer
- Flows south of Britannia and along the Britannia corridor flow to the Britannia/JSP SPS via gravity sewers and/or new LBL SPS

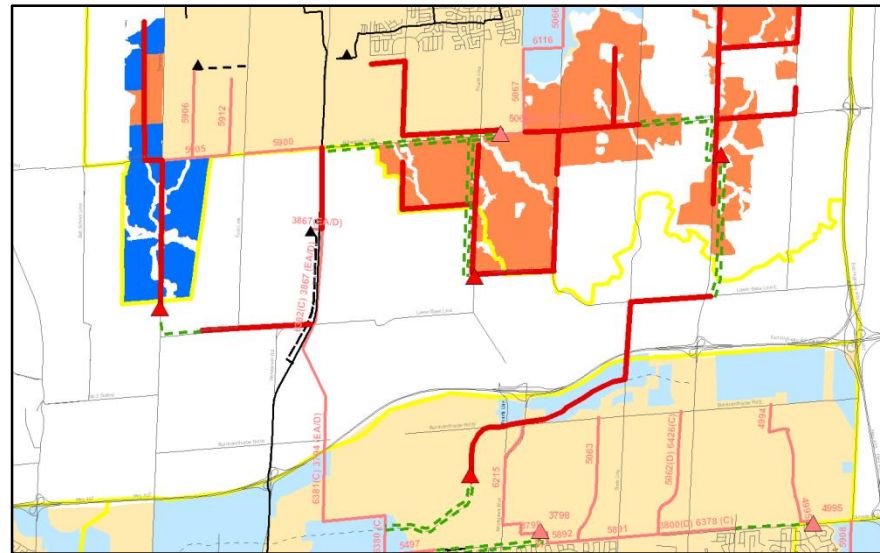


Wastewater Servicing Alternatives

Alternative 3 – North Oakville

Phasing Opportunities

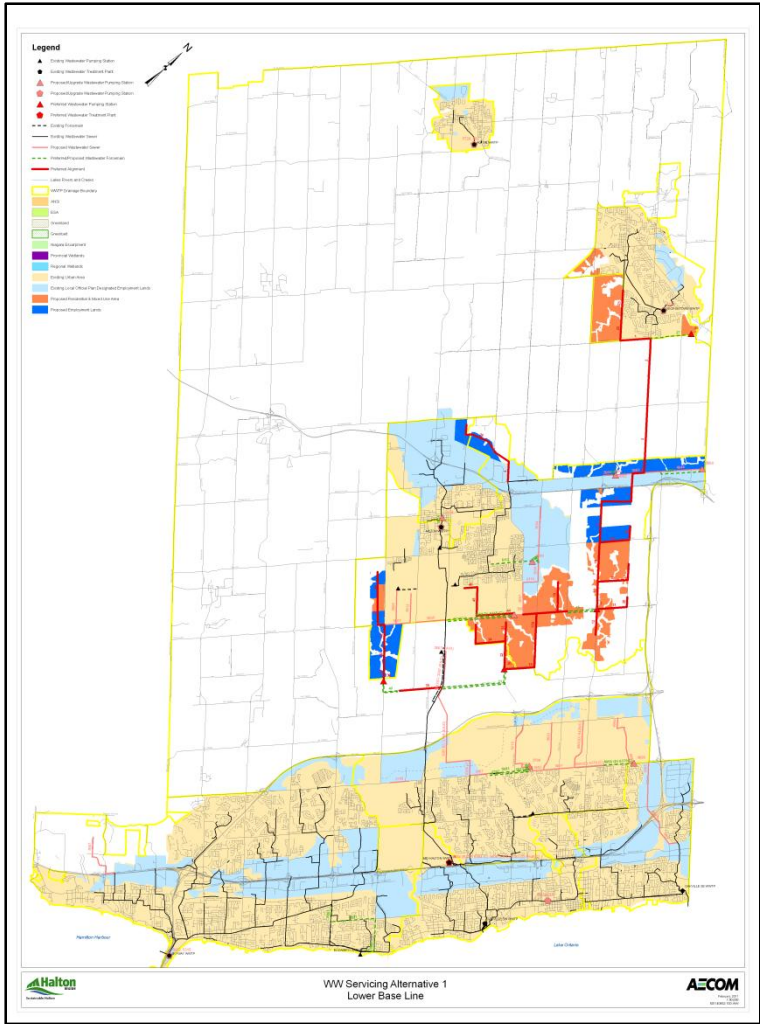
- Britannia/JSP SPS sized for east and southeast Milton catchment area. Servicing south of Britannia will require the smaller LBL SPS pumping north as well as gravity sewers on 4th Ln, 5th Ln and Lower Base Line
- Trafalgar Corridor, HH/401 Corridor and Georgetown can be serviced on an interim basis by Trafalgar/Britannia SPS pumping west to the Britannia Trunk and Britannia/JSP SPS
- As Britannia/JSP SPS reaches its capacity, Trafalgar/Britannia SPS pumps flows to the south. Trunk sewers on LBL, 6th Line and Burnhamthorpe as well as Burnhamthorpe SPS will be required for the ultimate service area



Preferred Wastewater Servicing Alternative

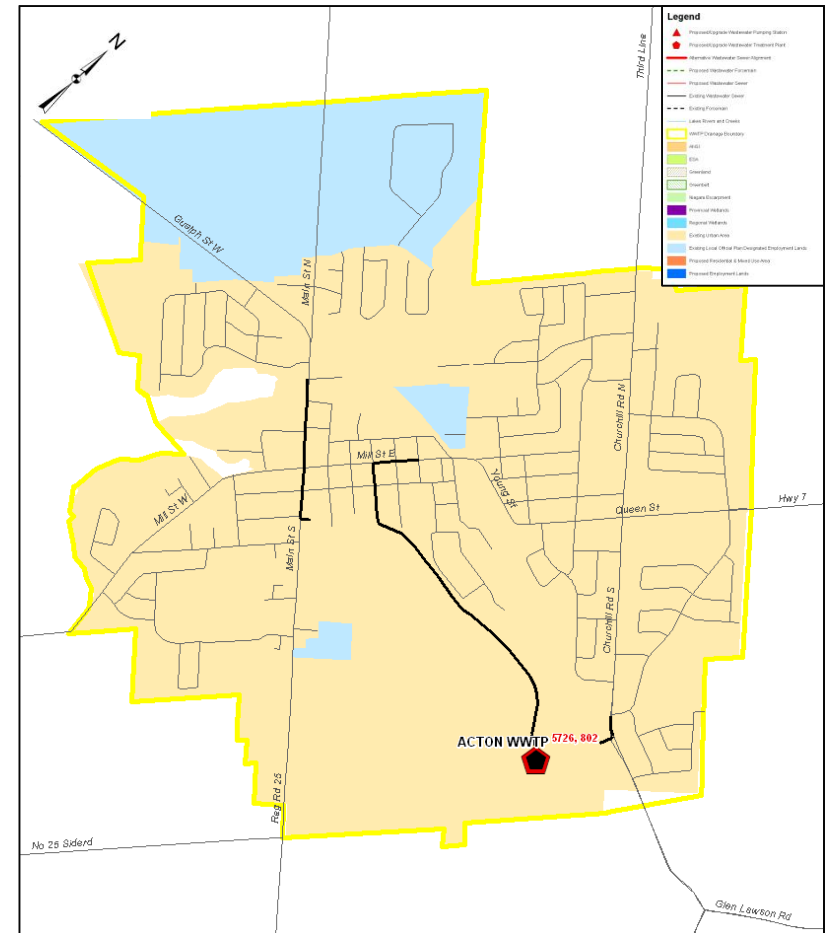
Summary:

- Allow the Acton system to operate independently
- Allow the Georgetown WWTP to service existing area and service greenfield growth through the lake based system
- Continue to divert flow from Milton to Mid Halton
- Provide an opportunity to review existing and future service areas
- Mid Halton WWTP to service existing drainage area plus new growth in Georgetown and Milton
- Consideration to phasing of development and infrastructure requirements to support phased growth
- Evaluated gravity sewer solution in place of existing pumping system within southern collection system
- Evaluated alternative sanitary sewer and forcemain alignments
- Considered topographical constraints and pumping requirements
- Consideration to diversion of flows in excess of treatment capacity



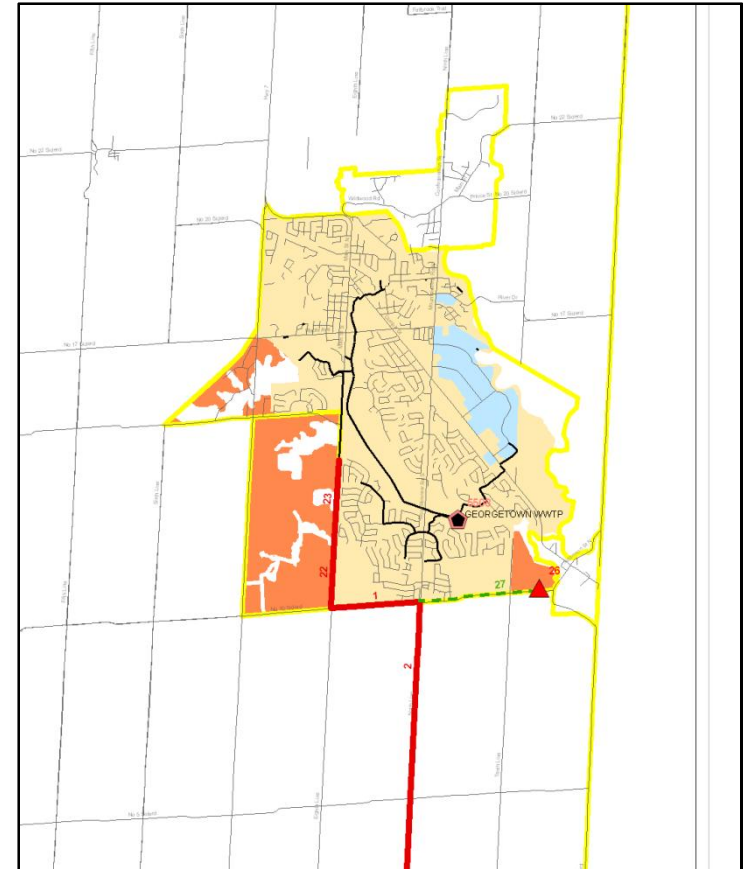
Acton Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for Acton is as follows:
 - Allow system to operate independently
 - Expand treatment capacity at existing Acton WWTP to meet 2031 flows
- Rationale is to:
 - Minimize impact to environmental features
 - Maximize use of available infrastructure
 - Halton-only solution



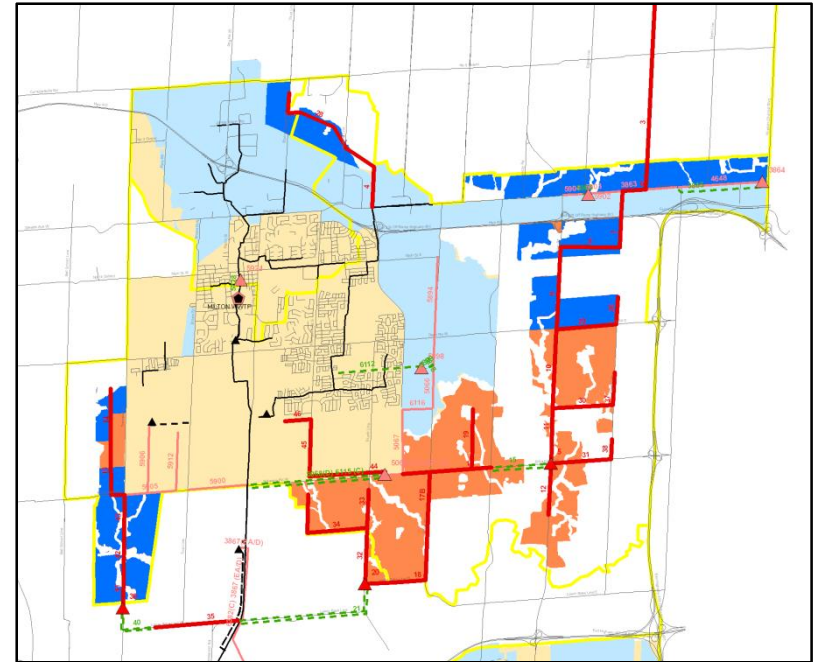
Georgetown Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for Georgetown is as follows:
 - Construct one sewage pumping station (SPS) and forcemain
 - Expand gravity collection system
 - Georgetown WWTP will not be able to support growth to 2031. Flows to be sent south to Mid-Halton WWTP
- Rationale is to:
 - Minimize impact to environmental features
 - Coordinate with road widening/phasing of growth
 - Maximize available collection, treatment, and capacity in south system
 - Develop a servicing strategy that has the flexibility to peel off areas (Stewarttown and South Hill) within Georgetown WWTP drainage area and send those flows south via 8th/9th Line Trunk Sewer



Milton Wastewater Servicing Strategy

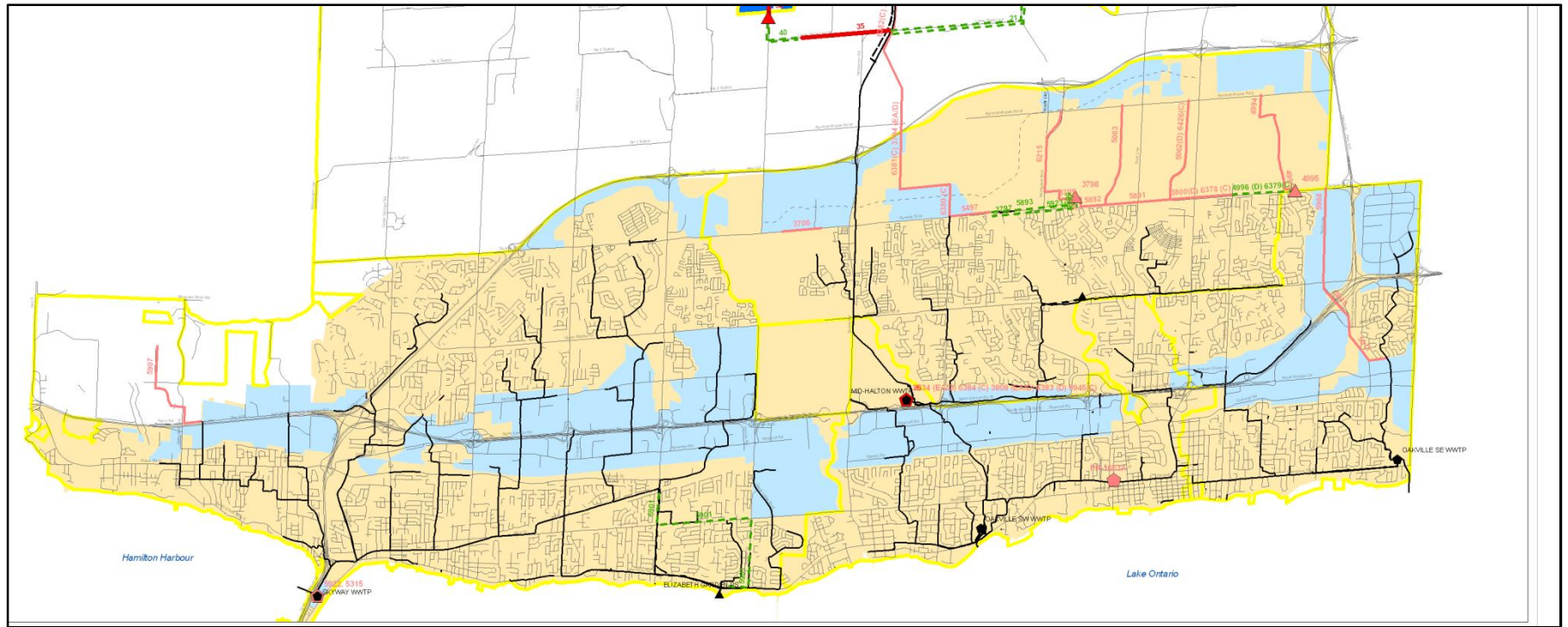
- Preliminary preferred wastewater servicing strategy for Milton is as follows:
 - Continue to divert flows to Mid Halton
 - Expand Fulton Sewage PS capacity at Milton WWTP
 - Expand gravity collection system
 - Construct seven new pumping stations and forcemains to service growth areas
- Rationale is to:
 - Build off existing & planned infrastructure
 - Overcome topographical and environmental constraints
 - Develop an overall servicing strategy that facilitates phasing of growth/development
 - Coordinate with planned transportation projects



South Halton Wastewater Servicing Strategy

- Preliminary preferred wastewater servicing strategy for South Halton is as follows:
 - Existing plants continue to service existing drainage area
 - Expand/upgrade Skyway & Mid-Halton WWTPs
 - Mid Halton WWTP to service existing drainage area plus Milton & Georgetown new growth
 - Decommission pumping stations and construct new gravity sewers in Oakville & Burlington
 - Construct two new pumping stations and forcemains to service new growth areas
 - Coordinate servicing strategy with Sewage Pumping Station Master Plan recommendations
- Rationale is to:
 - Minimize pumping, operation, and maintenance costs
 - Coordinate with phasing of growth/development
 - Build off existing & planned infrastructure
 - Expand/upgrade collection system to accommodate intensification

South Halton Wastewater Servicing Strategy



Next Steps

- PIC Dates
 - Oakville – Feb. 16
 - Burlington – Feb 17
 - Milton – Feb 22
 - Halton Hills – Feb 24

REVIEW AGENCIES EX-TAC

APR 1 2011

EXTAR - REVIEW AGENCIES SIGN IN

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Serving our Communities and our Environment
Sustainable Halton Water & Wastewater Master Plan

Agenda

1. Introductions & Meeting Objectives
2. Background
3. Key Issues & Discussion Items
4. Water Servicing
 - i. Key Servicing Issues
 - ii. Servicing Alternatives
 - iii. Solutions
5. Wastewater Servicing
 - i. Key Servicing Issues
 - ii. Servicing Alternatives
 - iii. Solutions
6. Preliminary Preferred Water & Wastewater Servicing Strategies
7. Next Steps

Meeting Objectives

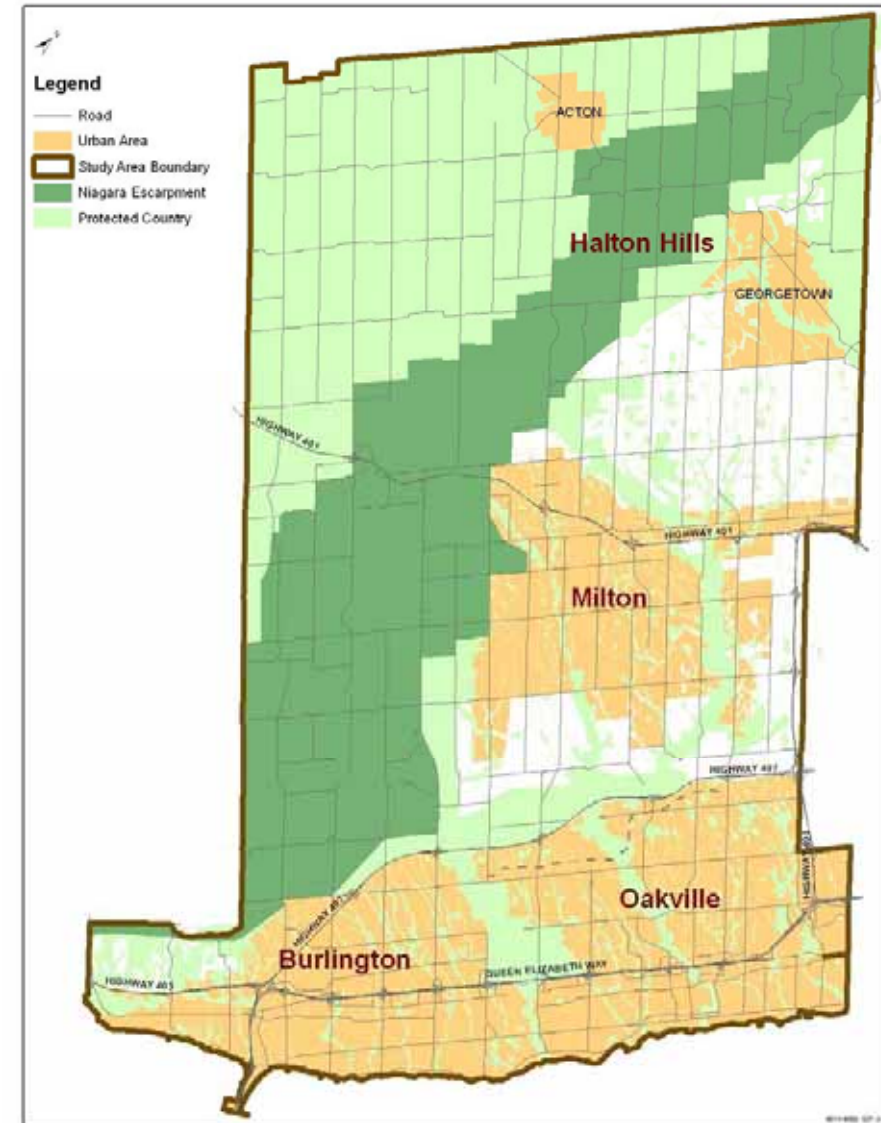
- Review key servicing issues
- Discuss alternative servicing solutions
- Present preliminary preferred servicing strategy
- Gather feedback

Objectives

Master Plan Study

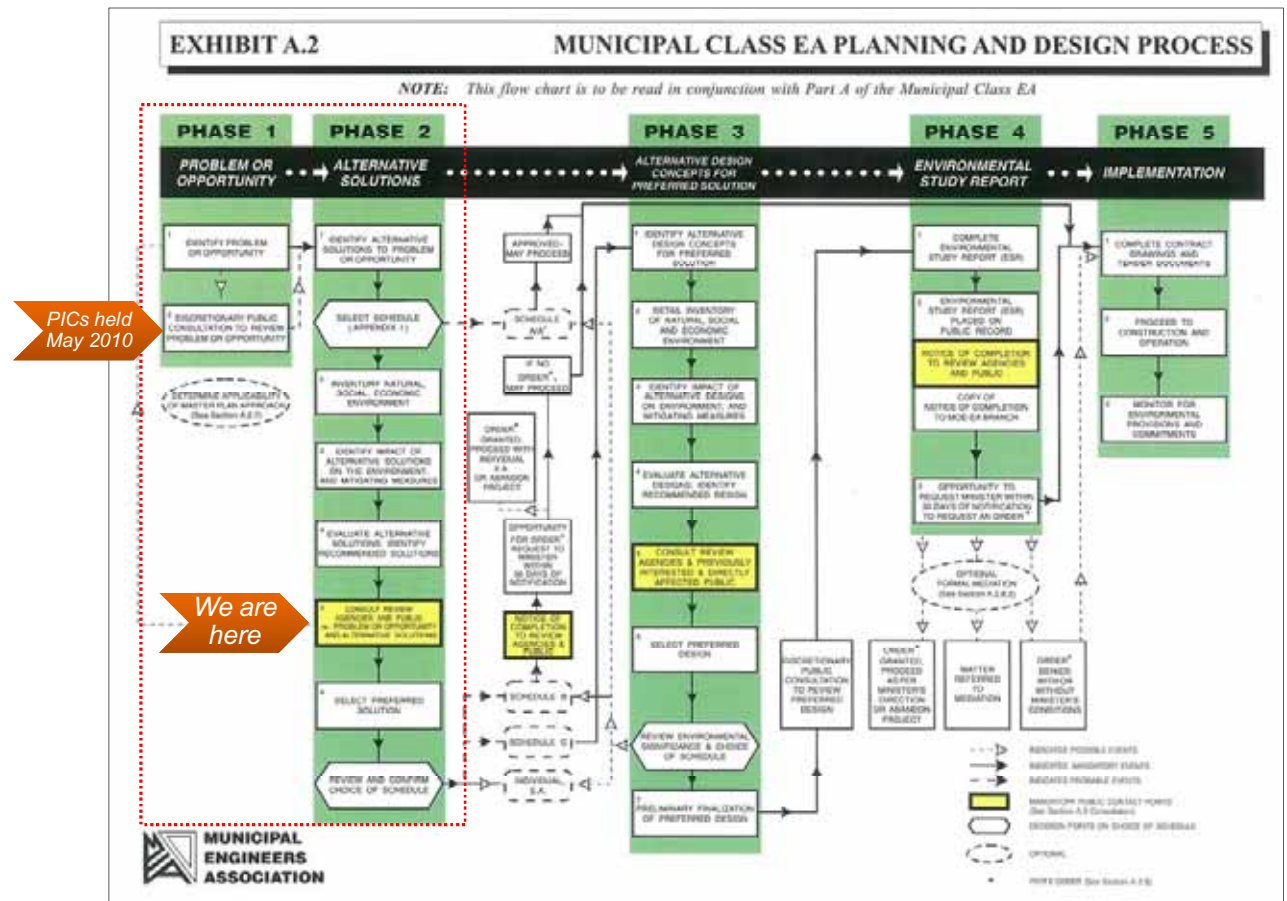
A Servicing Master Plan is a long range planning document that integrates infrastructure requirements for existing and future land use with environmental assessment planning principles. Its purpose is to:

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and businesses in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for approx. 732,000 people & 381,000 jobs by 2031 (*The population data and forecasts are consistent with the official Census figures as reported by Statistics Canada, not adjusted for undercoverage. It should be noted that the un-adjusted counts, sometimes referred to as “Census population” (versus “total population” referring to the adjusted counts as used in the Growth Plan), remain as the official population counts and are never updated to include the undercount.*)
 - A growth of approx. 257,000 people & 137,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Complete a capital implementation program for the preferred servicing strategy.



Municipal Class Environmental Assessment Process and Master Plan Context

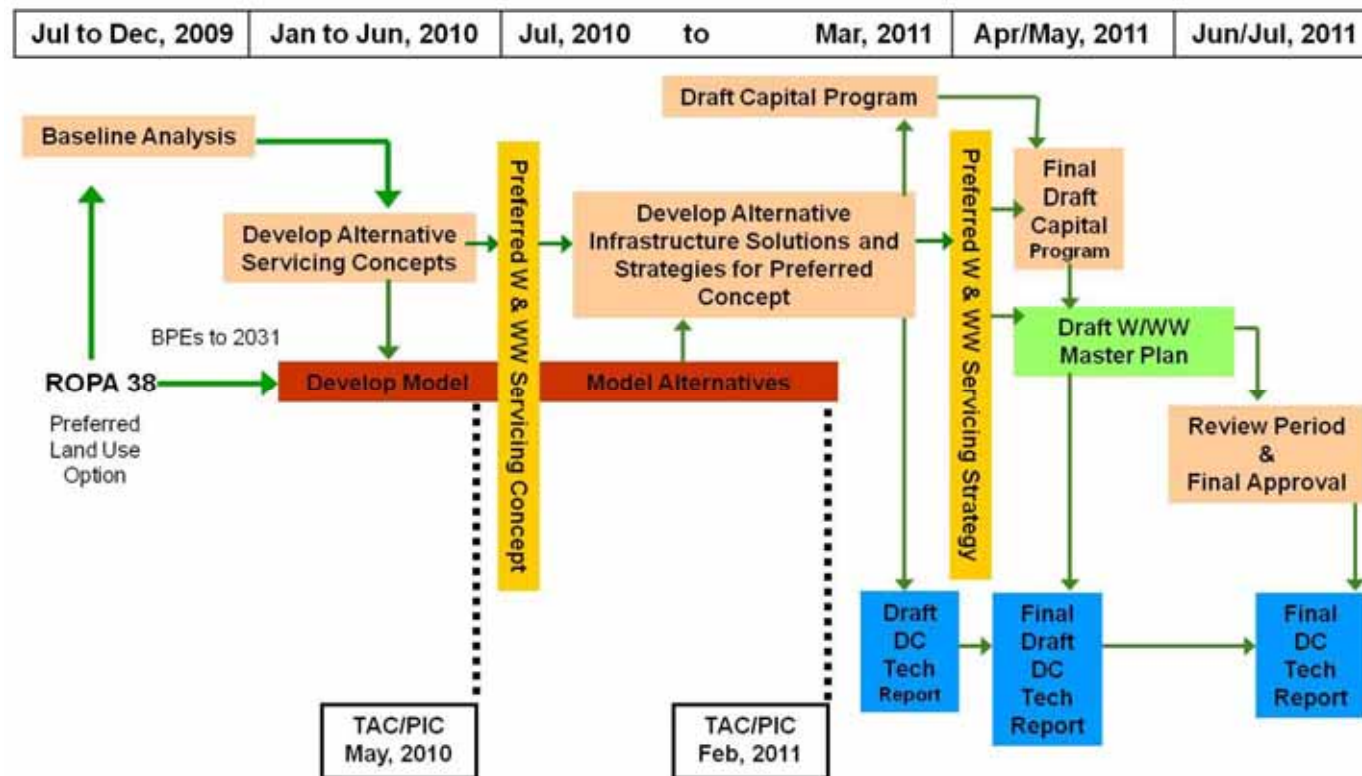
- Master Plan will be filed under Approach #2 under the MEA Class EA Approach for Master Planning, satisfying the following:
 - Meeting Phases 1 and 2 of the Class EA process but also fulfills requirements for Schedule A, A+ and B projects
 - Providing supporting documentation for any Schedule C projects, however these projects would still need to meet Phases 3 and 4 prior to filing for public review
- In the context of a Master Plan, a high level review of servicing with a conceptual/order of magnitude accuracy of costs will be carried out.



Master Plan Deliverables and Timeline

The final Servicing Master Plan document will include:

- Preferred Servicing Strategy
- Capital Implementation Plan
- Clear identification of follow-on study requirements
- Clarity for support of follow-on Class EA studies
- Integrated documents under Sustainable Halton

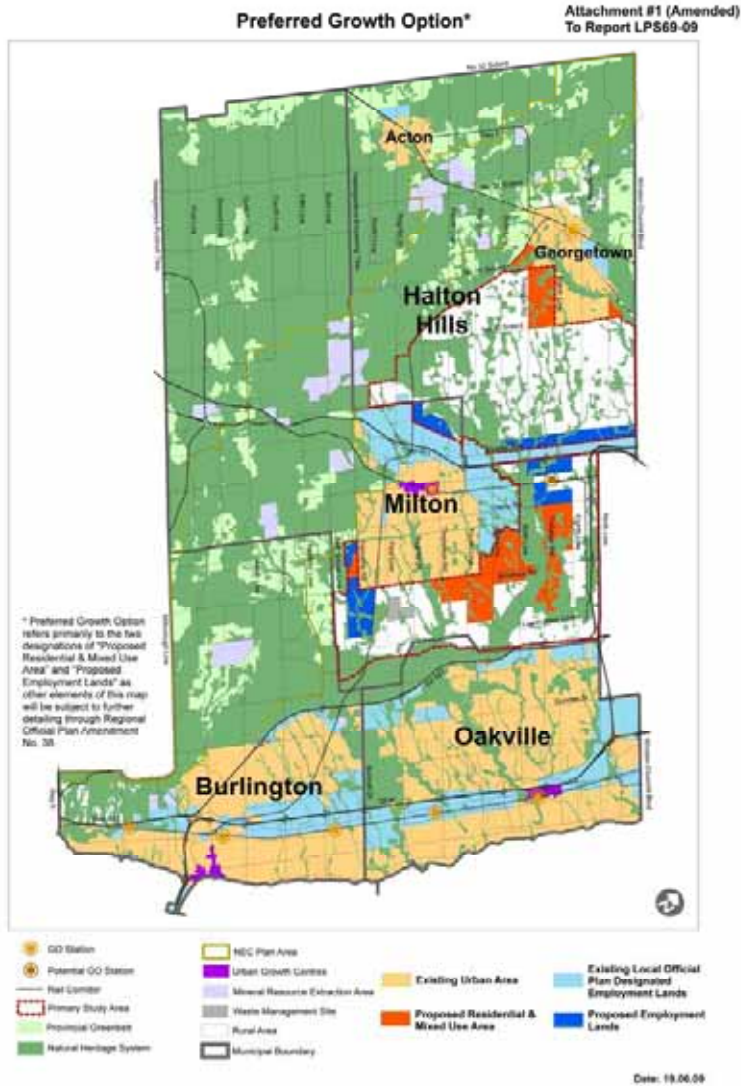


Related Halton Region Studies

- Regional Official Plan Amendment 38
- Transportation Master Plan
- Wastewater Pumping Station Master Plan
- Halton Tier 3 Groundwater Study
- Groundwater Supply Class EA's – Lindsay Court, Cedarvale and Prospect Park Well fields
- Acton and Georgetown Groundwater Capacity Study (under the W & WW Master Plan)
- Multiple Class EA's including Acton WWTP Expansion, Burlington-Oakville Interconnecting Watermains and Burloak WPP Expansion
- Water Efficiency Study and Program
- Halton Region Biosolids Master Plan

Sustainable Halton Preferred Land Use Plan

Planning Projections



Service Area	Served Population (Persons)		
	2011	2031	Growth
Acton	10,088	14,709	4,621
Georgetown	41,070	68,273	27,203
Halton Hills 401 Corridor	0	0	0
Halton Hills Sub-Total	51,158	82,982	31,824
Oakville	172,482	246,363	73,881
Burlington	170,386	182,080	11,694
Milton	81,088	221,240	140,152
Region Total	475,114	732,665	257,551

Note: Projections based on serviced area only and does not include rural employment (BPE Data October 2010).

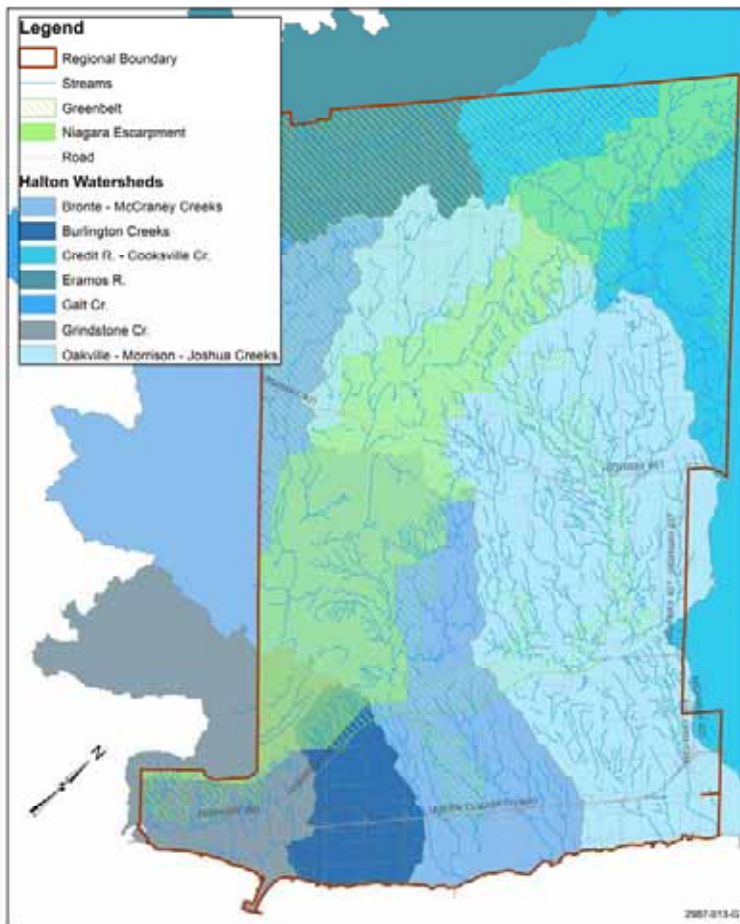
* The population data and forecasts are consistent with the official Census figures as reported by Statistics Canada, not adjusted for undercoverage. It should be noted that the un-adjusted counts, sometimes referred to as "Census population" (versus "total population" referring to the adjusted counts as used in the Growth Plan), remain as the official population counts and are never updated to include the under-count.

Service Area	Served Employment (Employees)		
	2011	2031	Growth
Acton	4,087	5,071	984
Georgetown	11,914	14,563	2,649
Halton Hills 401 Corridor	4,938	19,581	14,643
Halton Hills Sub-Total	20,939	39,215	18,276
Oakville	86,938	127,000	40,062
Burlington	95,572	104,913	9,341
Milton	41,223	110,648	69,425
Region Sub-Total	244,672	381,776	137,104

Note: Projections based on serviced area only and does not include rural employment (BPE Data October 2010).

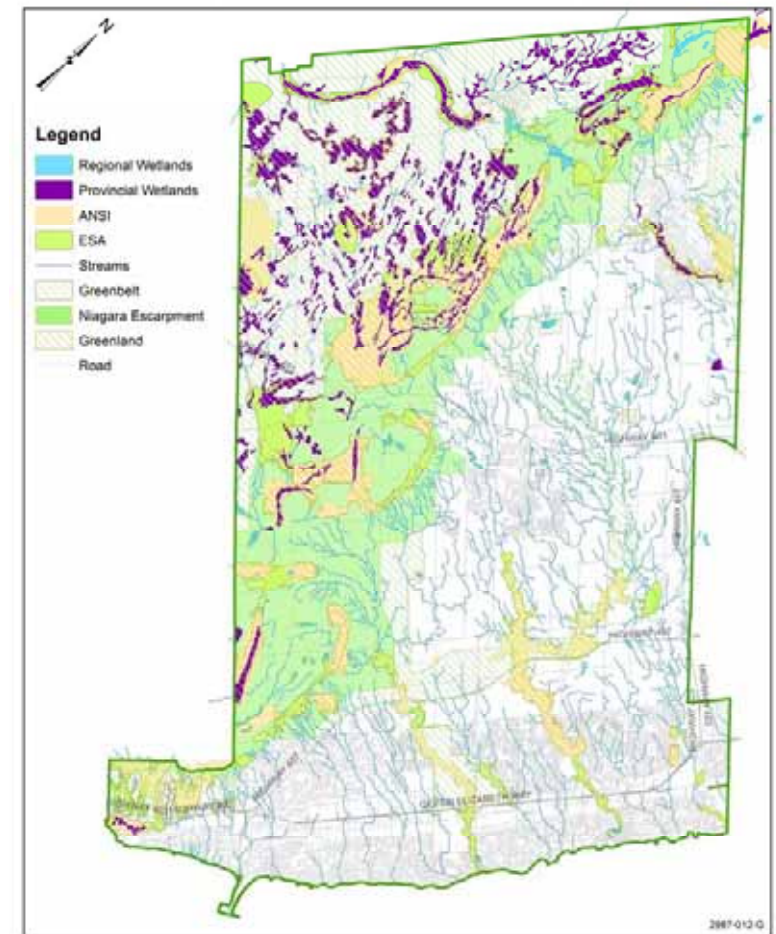
Existing Environmental Conditions

Watersheds



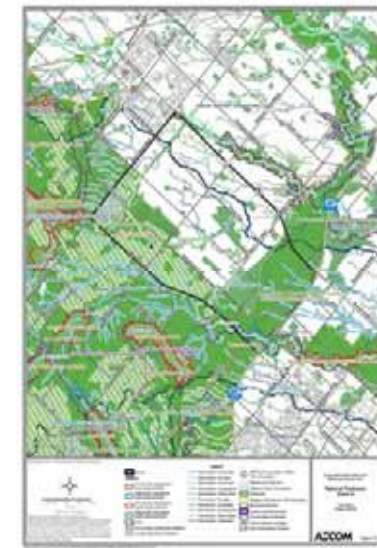
- Existing watersheds, environmental features and environmentally sensitive areas have been considered when evaluating water and wastewater servicing alternatives
- Preferred alignments and sites have been selected to avoid sensitive areas where possible
- Mitigative measures will be taken for those areas where water crossings and potential impacts may occur
- Appropriate construction techniques will be used to avoid water crossings and environmentally sensitive areas

Environmental Features

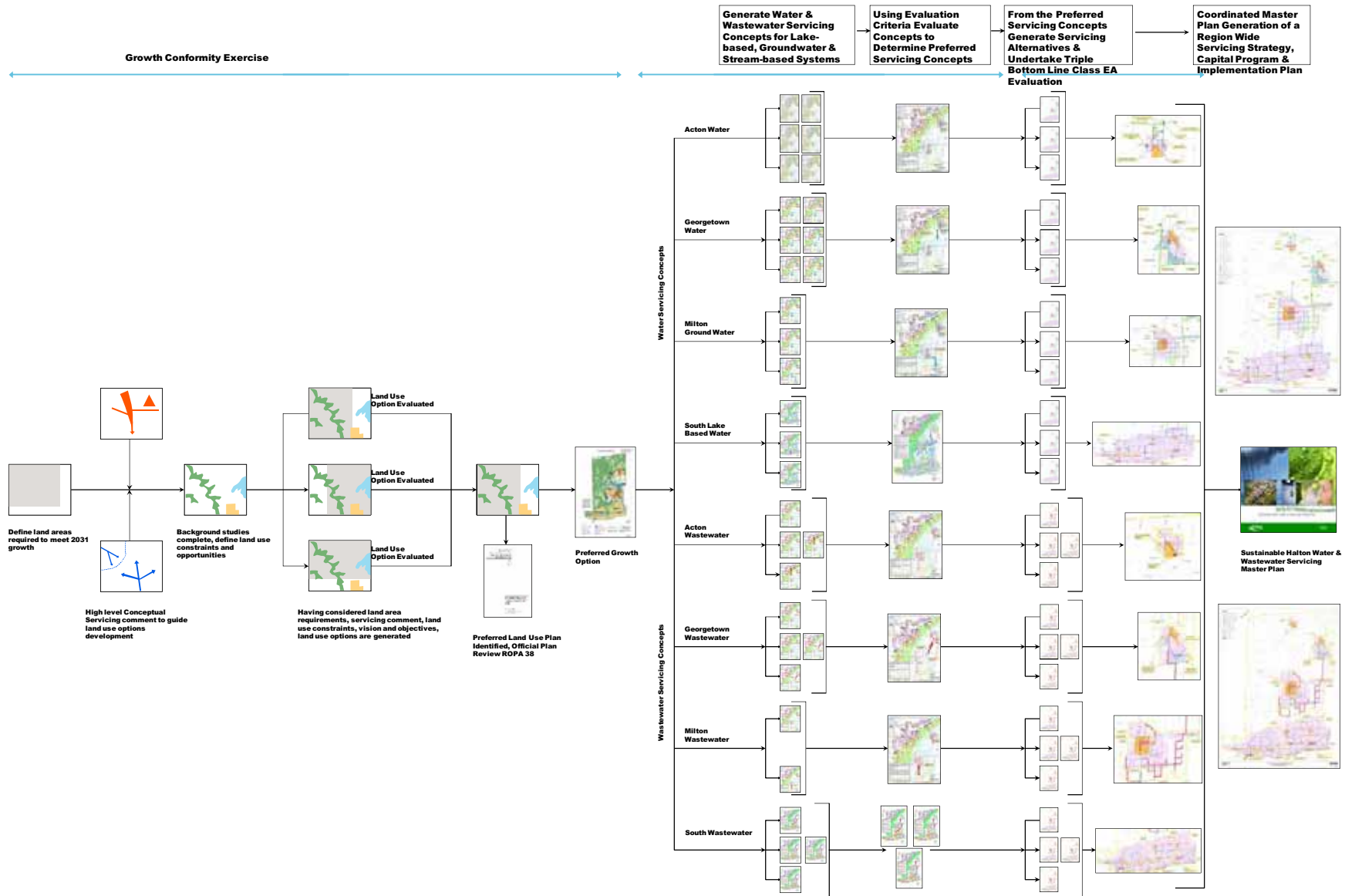


Environmental Baseline

- Review of natural heritage features and functions and hydro-geological conditions of the Study Area was undertaken
- Screening included a combination of secondary source review and field reconnaissance of key features of interest
- Documented existing conditions and assessed the implications of typical construction techniques in terms of potential impacts



Sustainable Halton Planning and Decision-Making Process



Servicing Concepts Evaluation Criteria

Water Strategies Evaluation

- Evaluate Average Day, Maximum Day and Peak Hour flows and supply
- Consider system security and redundancy
- Maintain adequate levels of service (pressure/flow for domestic use and firefighting)
- Ensure operating considerations are addressed
- Continue to meet all MOE requirements
- Use the model to assess impact of new growth demands (based on projected BPEs) on system infrastructure:
 - Capacity
 - Pressure
 - Fire Flow
- Analyze pressure zone boundaries
- Develop/evaluate servicing strategies

The framework for evaluating alternative water and wastewater servicing strategies was based on the **Twelve Point** Evaluation Criteria, consisting of:

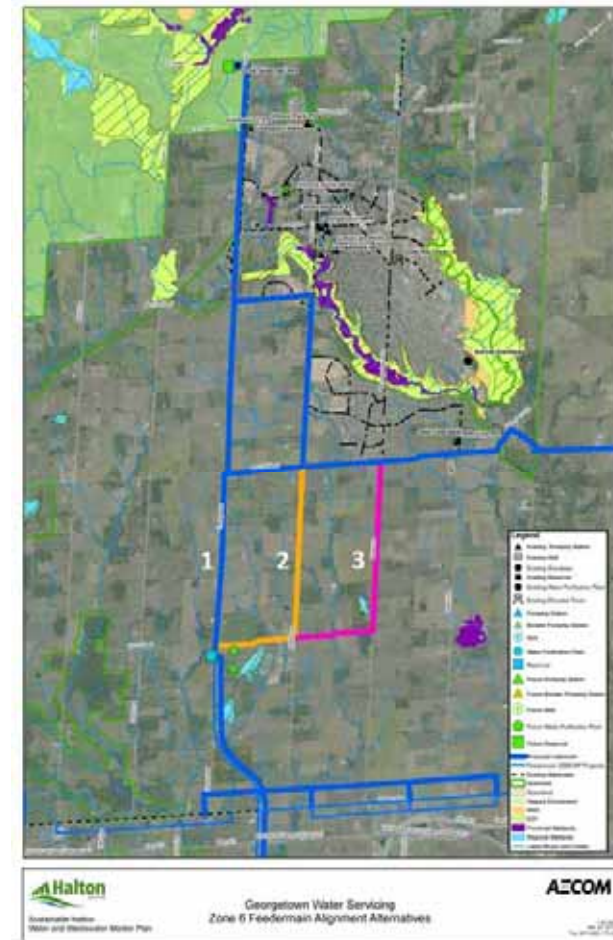
1. Environmental Impacts
2. Socio-Economic Impacts
3. Regional Policies & Guidelines Impacts
4. Legal/Jurisdictional Impacts
5. Technical Impacts
6. Phasing Impacts
7. Sizing Impacts
8. Constructability Impacts
9. Build Out Impacts
10. Implementation & Operability Impacts
11. Servicing Integration Impacts
12. Financial Impacts

Wastewater Strategies Evaluation

- Continue to meet all MOE requirements, including effluent quality standards
- Evaluate growth and inflow and infiltration
- Consider system security and redundancy
- Ensure that operating considerations are addressed
- Use the model to assess impact of new growth flows (based on projected BPEs) on system infrastructure:
 - Capacity
 - d/D
- Develop/evaluate servicing strategies

Project Alignment/Site Evaluation and Selection

- A key objective is to construct new pipes within existing or future road alignments where possible
- Using the Environmental Baseline as guidance avoid/minimize natural heritage areas and crossings when planning alignments and site selection
- Evaluate alternative alignments and sites including the consideration of existing natural conditions and assess the implications of typical construction techniques in terms of potential impacts
- Determine necessity to mitigate potential environmental impact



Key Issues & Discussion Items

Water:

- Groundwater supply vs projected demand
- Increased well supply vs ecological impact
- Need to switch over existing service areas
- Water Balance Requirements
- Security of Supply / Emergency Connection
- Northern system impact on south system

Wastewater:

- Stream based assimilative capacity
- Northern system impact on south system

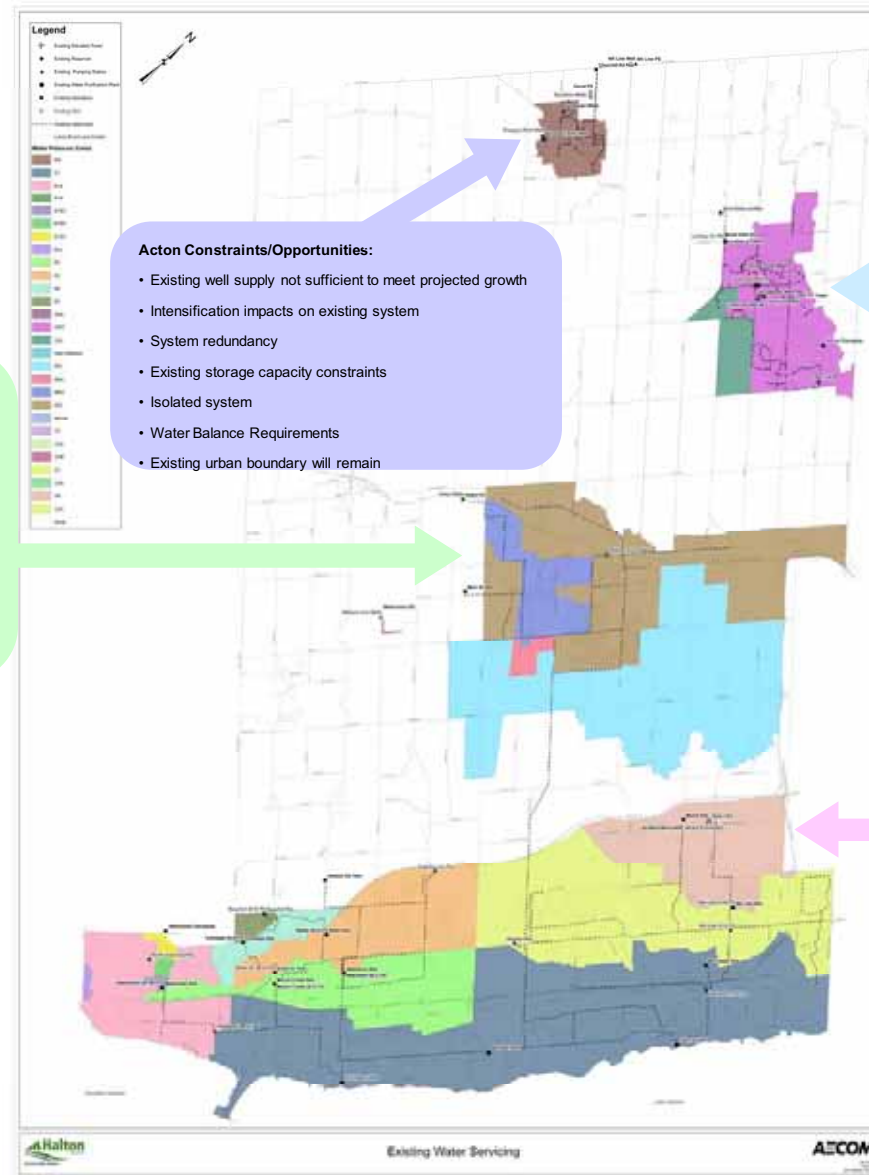
General:

- Major Environmental Crossings
- Intensification Impact
- Financial Balance
- Build-out Servicing

Water



Water Infrastructure and Servicing Issues



Milton Constraints/Opportunities:

- Existing well supply not sufficient to meet current & projected growth
- Intensification impacts on existing system
- Constraints:
 - Walker's Line Wells – limited supply, not meeting PTTW, surge tank/watermain rehabilitation required,
 - Kelso Water Plant – optimization required to increase production, not meeting PTTW
- Groundwater system servicing redundancy
- Political / public perception of maintaining groundwater service area
- Pressure zone boundary adjustments

Acton Constraints/Opportunities:

- Existing well supply not sufficient to meet projected growth
- Intensification impacts on existing system
- System redundancy
- Existing storage capacity constraints
- Isolated system
- Water Balance Requirements
- Existing urban boundary will remain

Georgetown Constraints/Opportunities:

- Existing well supply not sufficient to meet growth
- Intensification impacts on existing system
- System Redundancy
- Existing storage constraints (operational & quantity)
- Hamlets servicing requirement
- Expanded urban boundary (large greenfield growth)
- Water Balance Requirements
- Political / public perception of maintaining groundwater service area
- Interregional water connection

South Halton Constraints/Opportunities:

- Intensification impact on existing system
- Impact of transferring areas in Milton and Georgetown to lake based system
- Treatment capacity vs. projected demands
- Pressure zone boundary adjustments
- System redundancy
- West to east water transfer
- Build-out servicing
- Operational constraints in existing Burlington area
- Interregional water connections

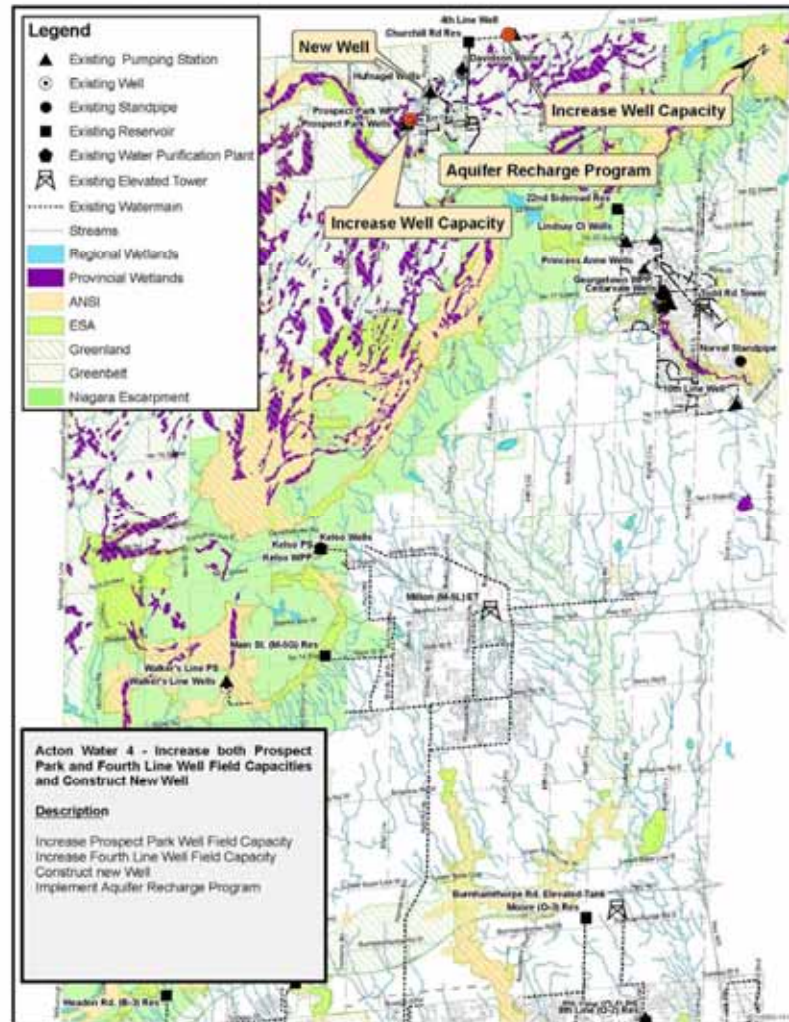
Master Plan Groundwater Study Objectives

- The objective of the groundwater project as part of the Sustainable Halton Master Plan was to assess the viability of different groundwater servicing alternatives. These alternatives may involve increasing groundwater taking from existing wells and/or adding new well(s).
- The groundwater assessment specifically examined the long term sustainability of increased groundwater taking by addressing two key questions
 - Is there sufficient water available in the aquifers?
 - Will increased water taking from those aquifers adversely impact the natural environment or surrounding domestic wells?
- To answer these key questions, the groundwater study evaluated historical data and reports along with draft results from projects currently underway on the various well fields. In addition, a detailed groundwater model was used to assess long term sustainability of proposed water takings, which includes cumulative effects of all the well fields.

Decision Making Process – Acton Water

Long List of water servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred water servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 – Increase both Prospect Park and Fourth Line Well Field Capacities	<ul style="list-style-type: none"> Maximizes existing well infrastructure 	<ul style="list-style-type: none"> Requires regular well maintenance No allowance for redundancy/firm capacity of the well system Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required 	<p>Concept 1 – Increase both Prospect Park and Fourth Line Well Field Capacities</p> <p>Concept screened out as a stand alone solution</p>	(Screened Out – no further evaluation undertaken)				
Concept 2 – Increase Prospect Park Well Field Capacity and Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	<p>Concept 2 – Increase Prospect Park Well Field Capacity and Construct a New Well Field</p> <p>(Concept further evaluated through Groundwater Study)</p>	<p>Low to moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Least Preferred</p>	<p>Risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Least Preferred</p>	<p>Sustainable Halton groundwater study and preliminary Tier 3 Modelling results show alternative does not meet projected supply needs</p> <p>Not considered a viable alternative</p> <p>Least Preferred</p>	<p>Lower cost alternative</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Least Preferred</p>	
Concept 3 – Increase Fourth Line Well Field Capacity and Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	<p>Concept 3 – Increase Fourth Line Well Field Capacity and Construct a New Well Field</p> <p>(Concept further evaluated through Groundwater Study)</p>	<p>Low to moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Least Preferred</p>	<p>Risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Least Preferred</p>	<p>Sustainable Halton groundwater study and preliminary Tier 3 Modelling results show alternative does not meet projected supply needs</p> <p>Not considered a viable alternative</p> <p>Least Preferred</p>	<p>Lower cost alternative</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Least Preferred</p>	
Concept 4 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Greatest flexibility for redundancy/firm capacity in supply Allows staging of works Addresses growth within urban boundary 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	<p>Concept 4 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field</p> <p>Concept combined with Concept 6</p> <p>(Concept further evaluated through Groundwater Study)</p>	<p>Low to moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Aquifer recharge / assimilative capacity required to Black Creek or Fairy Lake</p> <p>Neutral</p>	<p>Lower risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Opportunity for community betterment</p> <p>Maximizes existing well field sites</p> <p>Requires new site</p> <p>Preferred</p>	<p>Based on Sustainable Halton groundwater study and preliminary Tier 3 Modelling results, it is anticipated that this alternative would meet projected supply needs</p> <p>(Alternative requires long term pumping testing to support future production increase)</p> <p>Preferred</p>	<p>Higher cost alternative</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Preferred</p>	<p>Alternative 4 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Construct a New Well Field</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p>
Concept 5a – Connect to the Lake based system in South Halton (Lake Ontario)	<ul style="list-style-type: none"> Increased redundancy and security in supply Could potentially address full build-out needs 	<ul style="list-style-type: none"> Contrary to Greenbelt Policy 	<p>Concept 5a – Connect to the Lake based system in South Halton (Lake Ontario)</p>	(Screened Out – no further evaluation undertaken)				
Concept 5b – Connect to the Wellington County System (Lake Erie)	<ul style="list-style-type: none"> Increased redundancy and security in supply 	<ul style="list-style-type: none"> Intra basin transfer issues, ground watershed flows to Lake Erie Studies required to determine feasibility of balancing water budget Fundamentals of agreement needs to be established Confirmation of available Wellington capacity and trunk system impacts need to be confirmed 	<p>Concept 5b – Connect to the Wellington County System (Lake Erie)</p>	(Screened Out – no further evaluation undertaken)				
Concept 6 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Implement Aquifer Recharge Program	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Aquifer recharge implementation study can run concurrently with Well Field re-rating Addresses growth within urban boundary 	<ul style="list-style-type: none"> Feasibility study required for aquifer recharge Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Potential public concern Not a viable solution in the short term 	<p>Concept 6 – Increase both Prospect Park and Fourth Line Well Field Capacities plus Implement Aquifer Recharge Program</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concept 4</p>	<p>Low to moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Potential mitigation through artificial recharge of aquifer at Black Creek/Fairy Lake</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Neutral</p>	<p>Potential for public perception/acceptance of aquifer recharge solution to be negative</p> <p>Risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Maximizes existing well field sites</p> <p>Agency approvals required for aquifer recharge pilot study</p> <p>Neutral</p>	<p>Alternative does not meet projected supply needs. Further pilot study recommended to test viability of aquifer recharge</p> <p>Neutral</p>	<p>Capital investment into existing and new infrastructure</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Neutral</p>	<p>Integrated into Preliminary Preferred Alternative 4</p>

Acton Preliminary Preferred Water Servicing Strategy



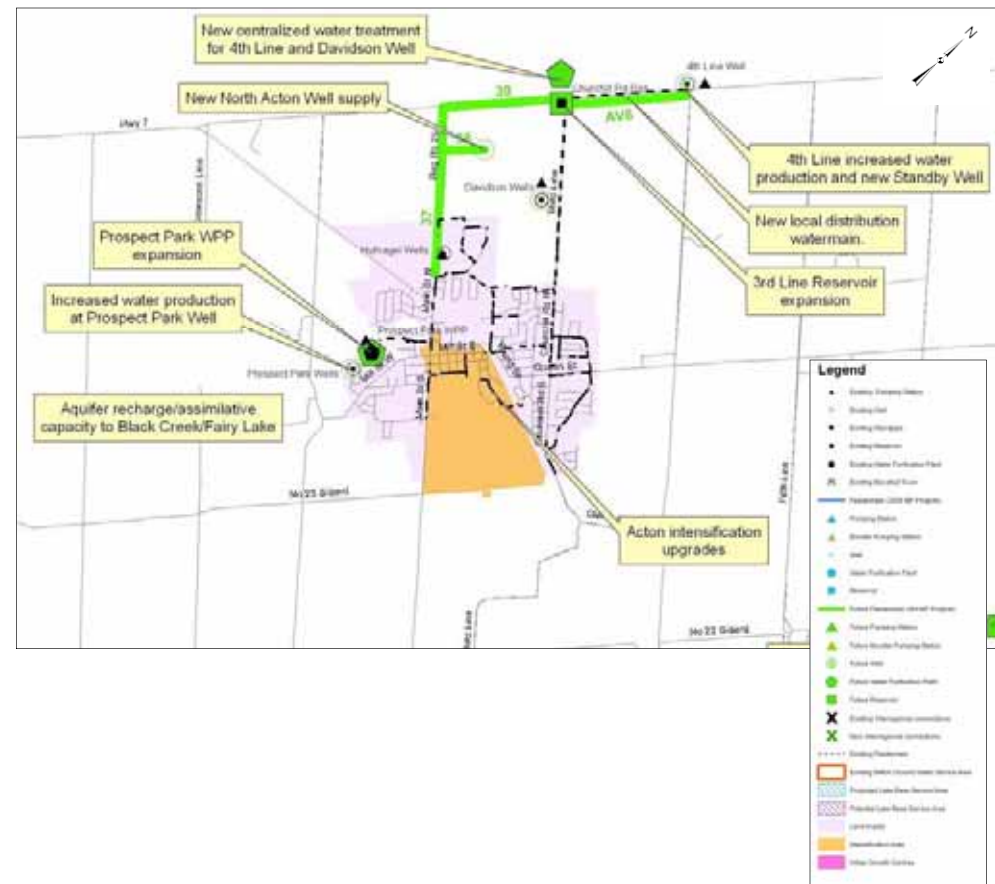
Acton Water Servicing Strategy

Preliminary preferred water servicing strategy for Acton is as follows:

- Stay on groundwater supply
- Explore new well supplies & upgrade existing wells (4th Line & Prospect Park) to meet future demands
- Upgrade existing reservoir to increase storage capacity
- Provide centralized treatment

Rationale is to:

- Maximize available use of existing & planned infrastructure
- Minimize impacts on environmental features

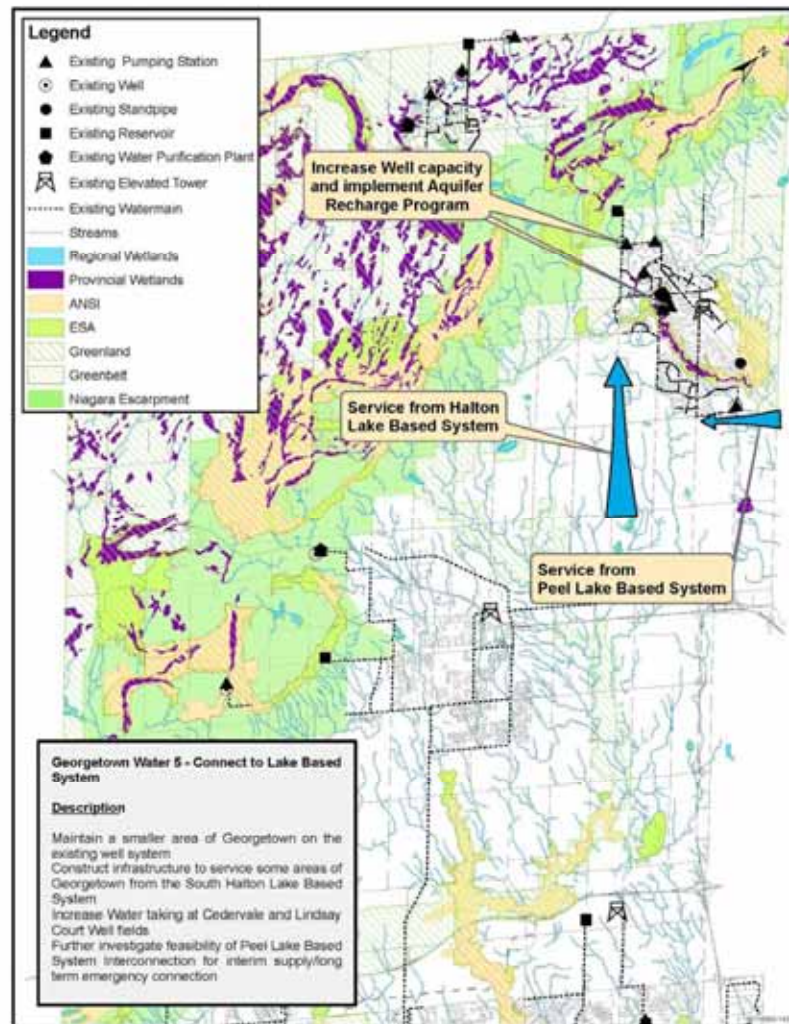


Decision Making Process – Georgetown Water

Long List of water servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred water servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 – Increase both Cedarvale and Lindsay Court Well Field Capacities	<ul style="list-style-type: none"> Maximizes existing well infrastructure Groundwater capacity can meet current urban boundary needs to 2031 Potential to increase firm capacity and security of supply through follow on stage at Lindsay Court 	<ul style="list-style-type: none"> Requires regular well maintenance Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Insufficient redundancy/firm capacity to meet the current urban boundary 2031 needs Insufficient supply for full 2031 needs 	<p>Concept 1 – Increase both Cedarvale and Lindsay Court Well Field Capacities</p> <p>Concept screened out as a stand alone solution</p>	(Screened Out – no further evaluation undertaken)				
Concept 2 – Increase Cedarvale Well Field Capacity and Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Groundwater capacity can meet current urban boundary needs to 2031 Allowance for redundancy/firm capacity for current urban boundary only 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	<p>Concept 2 – Increase Cedarvale Well Field Capacity and Construct a New Well Field</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concept 5A</p>	<p>Low to moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Higher risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Requires new site</p> <p>Maintain groundwater supply</p> <p>Not a viable solution in the short term</p> <p>Neutral</p>	<p>Higher risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Requires new site</p> <p>Maintain groundwater supply</p> <p>Neutral</p>	<p>Based on Sustainable Halton groundwater study and preliminary Tier 3 Modeling results, it is anticipated that this alternative would meet projected supply needs in combination with Concept 5A.</p> <p>Concept does require some transfer of existing groundwater service area to lake based (Alternative requires long term testing to support future production increase)</p> <p>Neutral</p>	<p>Higher costs associated with new well field</p> <p>Capital investment into existing and new infrastructure</p> <p>Least Preferred</p>	
Concept 3 – Increase Lindsay Court Well Field Capacity and Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Groundwater capacity can meet current urban boundary needs to 2031 Allowance for redundancy/firm capacity for current urban boundary only 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	<p>Concept 3 – Increase Lindsay Court Well Field Capacity and Construct a New Well Field</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concept 5A</p>	<p>Moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Higher risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Requires new site</p> <p>Maintain groundwater supply</p> <p>Not a viable solution in the short term</p> <p>Neutral</p>	<p>Higher risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Requires new site</p> <p>Maintain groundwater supply</p> <p>Neutral</p>	<p>Based on Sustainable Halton groundwater study and preliminary Tier 3 Modeling results, it is anticipated that this alternative would meet projected supply needs in combination with Concept 5A.</p> <p>Concept does require some transfer of existing groundwater service area to lake based (Alternative requires long term testing to support future production increase)</p> <p>Neutral</p>	<p>Higher costs associated with new well field</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Capital investment into existing and new infrastructure</p> <p>Least Preferred</p>	
Concept 4 – Increase both Cedarvale and Lindsay Court Well Field Capacities plus Construct a New Well Field	<ul style="list-style-type: none"> Maximizes existing well infrastructure Allows staging of works Groundwater capacity can meet current urban boundary needs to 2031 Greatest flexibility for redundancy/firm capacity for current urban boundary only 	<ul style="list-style-type: none"> Requires regular well maintenance New infrastructure required Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required Requires pumping tests to confirm new well supply yield predictions 	<p>Concept 4 – Increase both Cedarvale and Lindsay Court Well Field Capacities plus Construct a New Well Field</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concept 5A</p>	<p>Moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Requires new site</p> <p>Maintain groundwater supply</p> <p>Not a viable solution in the short term</p> <p>Neutral</p>	<p>Higher risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Coordination with local residents required</p> <p>Requires new site</p> <p>Maintain groundwater supply</p> <p>Neutral</p>	<p>Based on Sustainable Halton groundwater study and preliminary Tier 3 Modeling results, it is anticipated that this alternative would meet projected supply needs in combination with Concept 5A.</p> <p>Given that lake-based supply would still be required, additional new well field would be redundant over Concept 5a!</p> <p>Concept does require some transfer of existing groundwater service area to lake based (Alternative requires long term testing to support future production increase)</p> <p>Least Preferred</p>	<p>Higher costs associated with new well field</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Capital investment into existing and new infrastructure</p> <p>Least Preferred</p>	
Concept 5a – Connect to the Lake based system in South Halton	<ul style="list-style-type: none"> Increased redundancy in supply from Lake Ontario Addresses 2031 and potential urban buildout needs in South Halton Firm groundwater system capacity can be maintained to continue to provide servicing with existing urban boundary Could consider full system capacity 	<ul style="list-style-type: none"> Currently planned infrastructure for lake-based system is required to be in place in order to extend servicing to Georgetown 	<p>Concept 5a – Connect to the Lake based system in South Halton</p> <p>Concept considered a viable stand alone solution</p> <p>Concept combined with Concepts 2,3,4,5a & 5b for further evaluation</p>	<p>Lower potential for impact from increased water taking to local ecology and private wells</p> <p>Ability to reduce impact by transferring some groundwater service areas to Lake Based</p> <p>Maintain water balance</p> <p>Preferred</p>	<p>Some areas transferred to lake based water supply</p> <p>Leverages South Halton water supply and servicing strategy</p> <p>Coordination with local residents required</p> <p>Water balance coordination with wastewater required</p> <p>Preferred</p>	<p>Long term water supply security</p> <p>Leverages South Halton water supply and servicing strategy</p> <p>Water balance coordination with wastewater required</p> <p>Preferred</p>	<p>Leverages costs associated with South Halton lake based solution as well as minimum groundwater costs</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Preferred</p>	<p>Alternative 5a</p> <ul style="list-style-type: none"> Increase capacity at Cedarvale Increase capacity at Lindsay Court Maintain Princess Anne No new well fields Transfer existing Georgetown South and existing Stewarttown to lake based supply All new Southwest Georgetown and Stewarttown growth on lake based supply
Concept 5b – Connect to the Peel System	<ul style="list-style-type: none"> Increased redundancy in supply from Lake Ontario Addresses 2031 and potential mature state needs in South Halton Firm groundwater system capacity can be maintained to continue to provide servicing with existing urban boundary Could consider full system capacity Potential opportunity for interim supply Current Peel distribution system is located closer to the Georgetown service area 	<ul style="list-style-type: none"> Confirmation of available Peel capacity and trunk system impacts need to be confirmed Fundamentals of agreement need to be established 	<p>Concept 5b – Connect to the Peel System</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concept 5A</p>	<p>Common Halton only infrastructure.</p> <p>Triggers Peel infrastructure with environmental mitigation requirements</p> <p>Least Preferred</p>	<p>Requires coordination and agreement with Peel</p> <p>Requires significant Peel infrastructure. Staging dependent on Peel capacity</p> <p>Provides long term emergency connection (security of supply)</p> <p>Neutral</p>	<p>Provides service area flexibility.</p> <p>Requires significant Peel infrastructure. Staging dependent on Peel capacity</p> <p>Provides long term emergency connection (security of supply)</p> <p>Neutral</p>	<p>Highest cost alternative</p> <p>Requires investment in Peel infrastructure</p> <p>Least Preferred</p>	<p>Alternate 5b: Zone 6 Peel interconnection has been carried forward under preliminary preferred alternative 5a as an emergency supply to Georgetown</p>
Concept 6 – Increase both Cedarvale and Lindsay Court Well Field Capacities plus Implement Aquifer Recharge Program	<ul style="list-style-type: none"> Maximizes existing well infrastructure Increased redundancy/firm capacity in supply Addresses growth within urban boundary Aquifer recharge implementation study can run concurrently with Well Field Re-rating 	<ul style="list-style-type: none"> Aquifer recharge feasibility study required Potential public concern Not a viable solution in the short term Re-rating dependant upon Review Agency approval Assessment for potential impact on local ecology and private wells is required 	<p>Concept 6 – Increase both Cedarvale and Lindsay Court Well Field Capacities plus Implement Aquifer Recharge Program</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concept 5a</p>	<p>Low to moderate risk of potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Potential mitigation through artificial recharge of aquifer/Silver Creek</p> <p>Neutral</p>	<p>Potential for public perception/acceptance of aquifer recharge solution to be negative</p> <p>Risk associated with agency approvals for increased Permit To Take Water (PTTW)</p> <p>Maximizes existing well field sites</p> <p>Maintain groundwater supply</p> <p>Agency approvals required for aquifer recharge pilot study</p> <p>Neutral</p>	<p>Based on Sustainable Halton groundwater study and preliminary Tier 3 Modeling results, it is anticipated that this alternative would meet projected supply needs in combination with Concept 5A.</p> <p>Concept does require some transfer of existing groundwater service area to lake based (Alternative requires long term pumping testing to support future production increase)</p> <p>Further pilot study recommended to test viability of aquifer recharge</p> <p>Neutral</p>	<p>Lowest capital cost alternative</p> <p>Additional costs will be incurred for on-going operation, maintenance and monitoring</p> <p>Capital investment into existing and new infrastructure</p> <p>Neutral</p>	<p>Integrated into Preliminary Preferred Alternative 5a</p>



Georgetown Preliminary Preferred Water Servicing Strategy



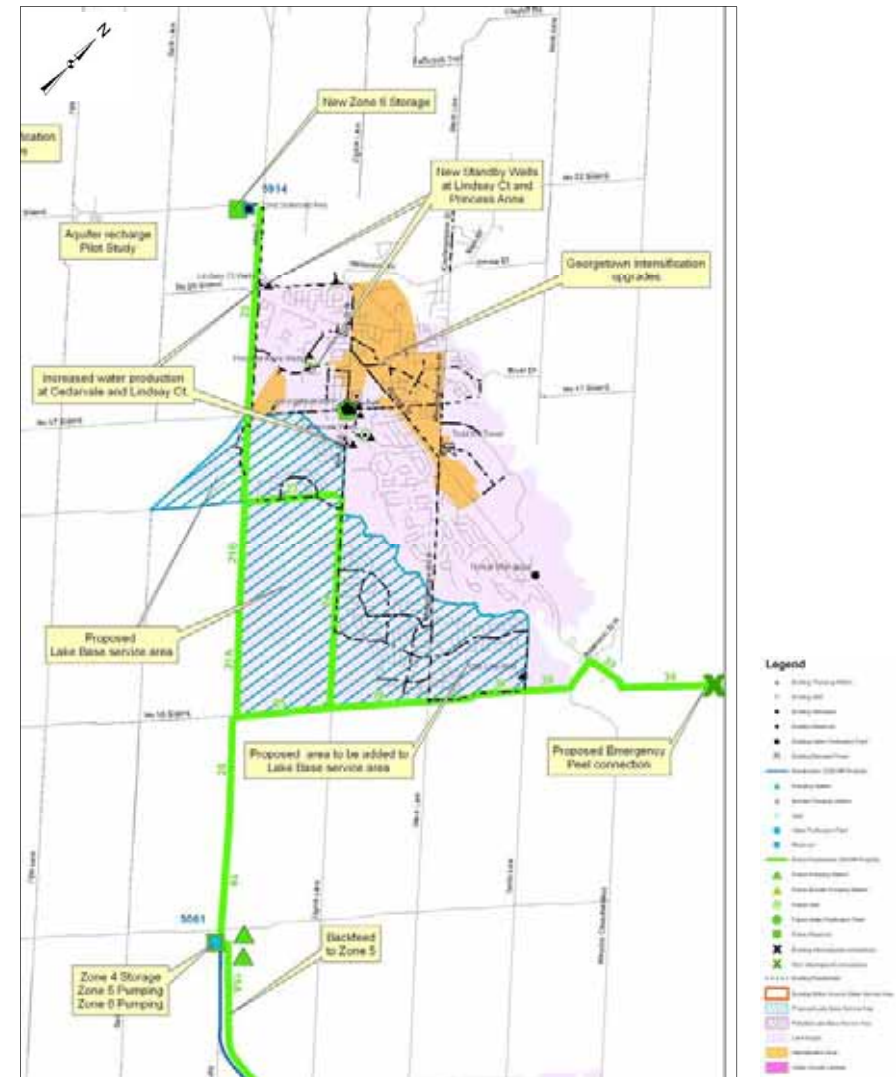
Georgetown Water Servicing Strategy

Preliminary preferred water servicing strategy for Georgetown is as follows:

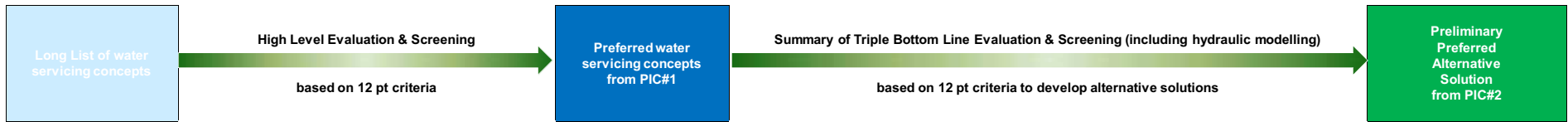
- Maintain a groundwater supply service area
- Upgrade existing wells (Lindsay Crt & Cedarvale) to meet future groundwater service area demands
- Service new greenfield growth via lake based system
- Switch over some existing service area to Lake-based
- New Zone 6 reservoir at existing site, to provide additional storage capacity

Rationale is to:

- Increase security of supply
- Minimize operation & maintenance costs
- Coordinate with phasing
- Minimize impacts on environmental features
- Provide a Halton-only solution with emergency supply from Peel

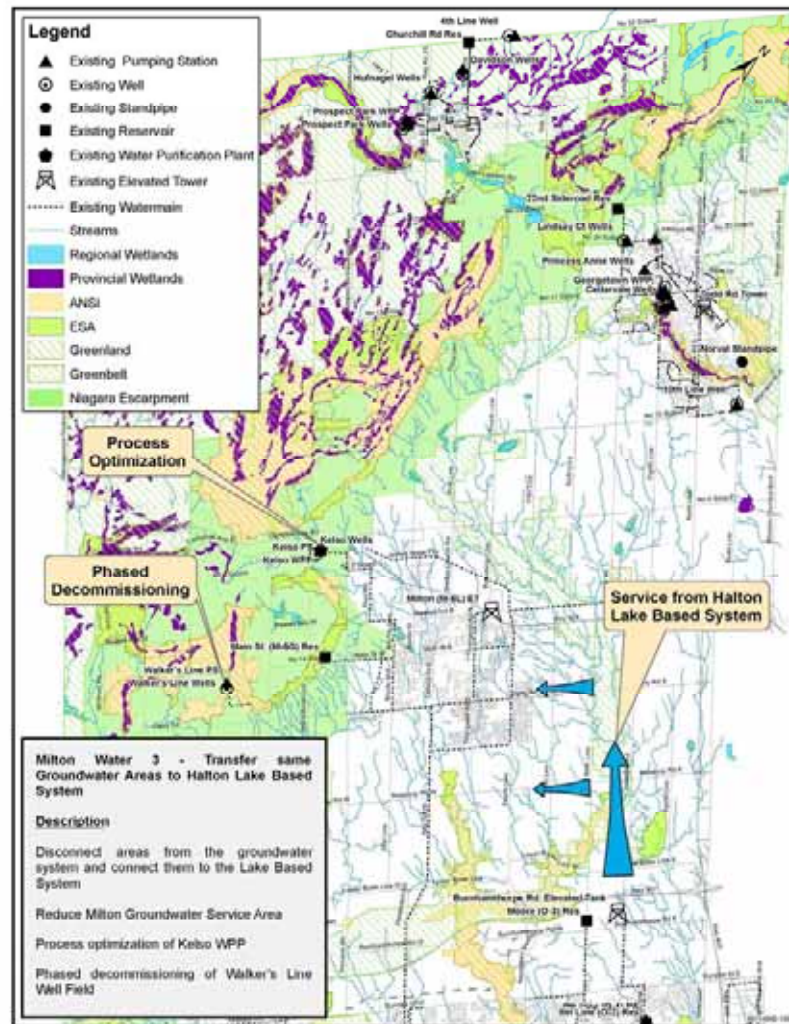


Decision Making Process – Milton Groundwater



	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Walker's Line Well Field Upgrades	<ul style="list-style-type: none"> Maximizes existing well infrastructure Maintaining groundwater system based on some perception/feedback that groundwater is a preferred source 	<ul style="list-style-type: none"> Requires regular well maintenance Assessment for potential impact on local ecology and private wells is required Potential not to meet PTTW Does not meet future demand requirements 	<p>Concept 1 – Walker's Line Well Field Supply Upgrades</p> <p>Concept screened out as a stand alone solution</p> <p>Concept combined with Concepts 2 and 3 for further evaluation</p>	<p>Potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Least Preferred</p>	<p>If capacity were available, meets feedback that maintaining groundwater system is a preferred source</p> <p>Preferred</p>	<p>Requires new well, surge tank, linear infrastructure and additional treatment (Significant rehabilitation required)</p> <p>Provides minimum security of supply</p> <p>Least Preferred</p>	<p>Requires substantial capital investment for minimal capacity gain</p> <p>Least cost effective</p> <p>High operation and maintenance costs</p> <p>Least Preferred</p>	<p>Phased decommissioning of Walker's Line well field once Kelso WPP optimization results are confirmed (Combined solution with Alternative 3)</p>
Concept 2 – Kelso WPP Upgrades	<ul style="list-style-type: none"> Maximizes existing well infrastructure Currently a higher yielding well field Maintaining groundwater system based on some perception/feedback that groundwater is a preferred source 	<ul style="list-style-type: none"> Requires regular well maintenance Assessment for potential impact on local ecology and private wells is required Potential not to meet PTTW Does not meet future demand requirements 	<p>Concept 2 - Kelso WPP Upgrades</p> <p>Concept screened out as a stand alone solution</p> <p>Concepts combined with Concepts 1 and 3 for further evaluation</p>	<p>Potential impact from increased water taking to local ecology and private wells</p> <p>Upcoming Tier 3 water budget assessment required to evaluate long term sustainability of water taking</p> <p>Least Preferred</p>	<p>If capacity were available, meets feedback that maintaining groundwater system is a preferred source</p> <p>Preferred</p>	<p>Increase in supply anticipated through optimization of plant although potential not to meet Permit to take Water (PTTW)</p> <p>Neutral</p>	<p>Requires moderate capital investment for small capacity gain</p> <p>Neutral</p>	<p>Solution based on optimization of the Kelso WPP to minimize transfer of existing groundwater service to lake-based. (Combined solution with Alternative 3)</p>
Concept 3 – Transfer Areas to Lake Based System	<ul style="list-style-type: none"> Provides security of supply Potential to minimize upgrades to existing supply system Opportunity to continue to maintain a groundwater service area or consider transfer of the full system Opportunity for staging. Lake based servicing already provided in Milton Addresses full build-out needs 	<ul style="list-style-type: none"> Requires operational plans to implement 	<p>Concept 3 – Transfer Areas to Lake Based System</p> <p>Concept considered a viable stand alone solution</p> <p>Concept combined with Concepts 1 and 2 for further evaluation</p>	<p>Maintains current water balance</p> <p>Preferred</p>	<p>High level of service maintained. May not meet feedback</p> <p>Allows historic Milton area to remain on groundwater and service future intensification demands</p> <p>Neutral</p>	<p>Provides greatest operating and security flexibility</p> <p>Preferred</p>	<p>Cost effective transfer strategy</p> <p>Lowest cost alternative</p> <p>Preferred</p>	<p>Alternative 3 – Transfer areas to lake based system</p> <p>Phased transfer of some existing groundwater service areas to lake-based servicing and maximize the size of the groundwater service area based on available capacity</p> <p>Solution based on optimization to gain capacity at Kelso WPP and decommissioning of Walker's Line well field.</p>

Milton Preliminary Preferred Water Servicing Strategy



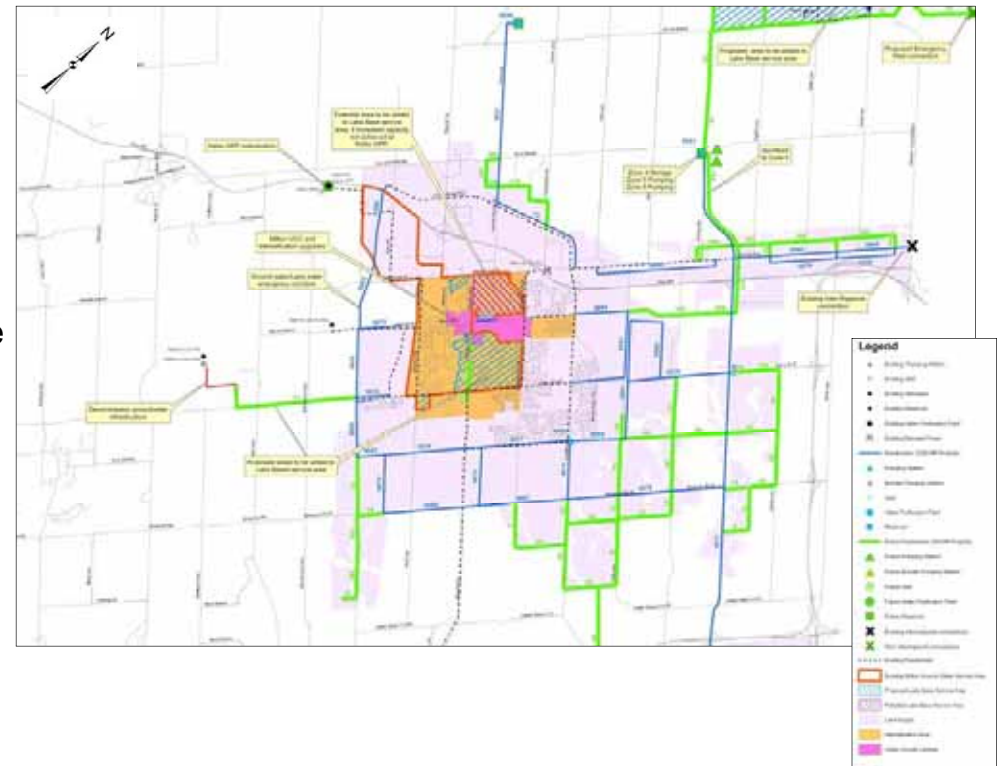
Milton Water Servicing Strategy

Preliminary preferred water servicing strategy for Milton is as follows:

- Maintain a groundwater supply service area
- Process optimization at the Kelso WPP
- Decommission Walker's Line Well system once optimization achieved at Kelso WPP
- Transfer areas in Milton to lake based system
- Build off existing planned Zone 4 & 5 infrastructure to service greenfield growth

Rationale is to:

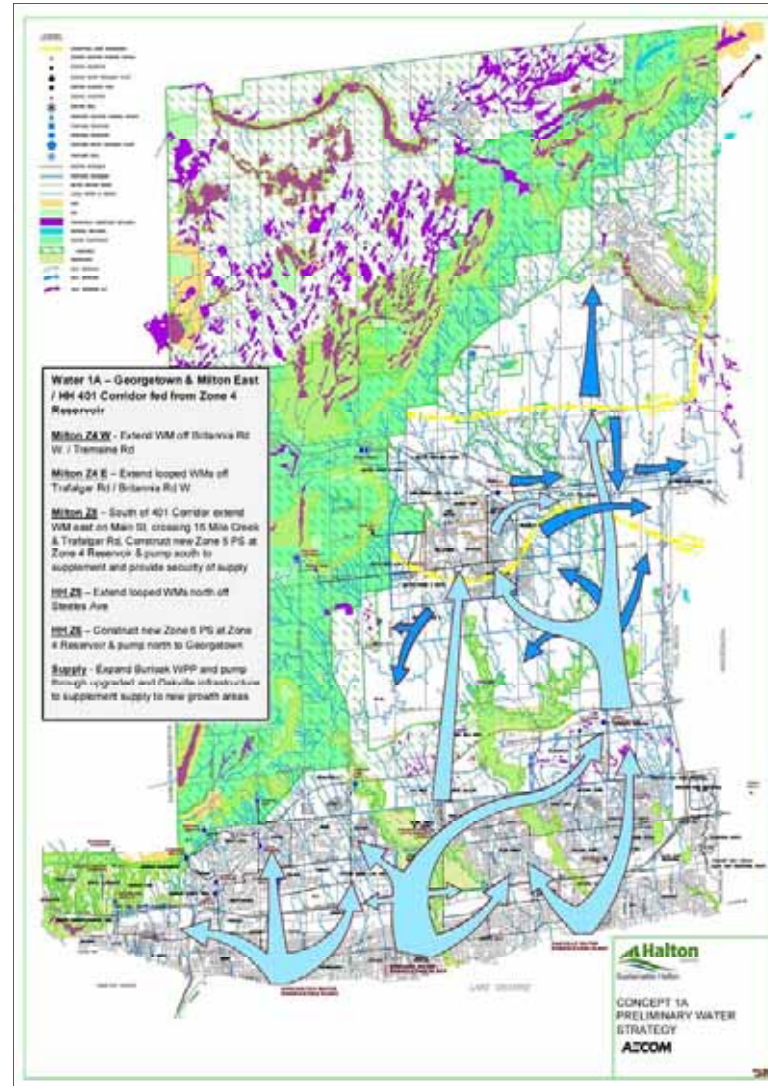
- Increase security of supply through lake based system
- Maximize available use of existing & planned infrastructure
- Coordinate with phasing
- Minimize impacts on environmental features
- Provide a Halton-only solution



Decision Making Process – South Halton Water

Long List of water servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred water servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Expand 2021 Network (1A, 1B, 1C)	<ul style="list-style-type: none"> Provides Halton Hills Z5 redundancy Leverages existing infrastructure for full build-out Greater flexibility for sizing and design to support strategy Halton only servicing concept 	<ul style="list-style-type: none"> Requires extra Hwy 401 Crossing One feed to Georgetown no supply redundancy 	Concept 1 A - Expand 2021 Network Georgetown & Milton East/HH 401 Corridor fed from Zone 4 Reservoir	Common Halton only infrastructure. Infrastructure alignments will maximize existing roads and minimize environmental impacts Preferred	Maintains infrastructure within existing roads Preferred	Provides greatest operating and security flexibility. Maximizes existing infrastructure Preferred	Staging can provide opportunity to defer capital Lowest cost alternative Preferred	Alternative 1 A - Expand 2021 Network Georgetown & Milton East/HH 401 Corridor fed from Zone 4 Reservoir Separate alignment and facility site evaluations have been undertaken
Concept 2 – Third Spine (2A, 2B, 2C, 2D)	<ul style="list-style-type: none"> Addresses potential full build-out needs Potential to create further redundancy in Burlington/Oakville system Independent feed to Milton (not reliant on Kitchen PS & RR25 and Trafalgar spines) Halton only servicing concept 	<ul style="list-style-type: none"> New crossing through Greenbelt required Overly redundant (not needed to service 2031 growth) Does not maximize existing infrastructure (new pumping stations required) One feed to Georgetown no supply redundancy 	Concept 2 – Third Spine	(Screened Out - no further evaluation undertaken)				
Concept 3 – Inter-Regional (3A, 3B, 3C)	<ul style="list-style-type: none"> Existing Peel infrastructure in close proximity to Halton service areas Potential to provide early phasing strategy More direct feed to Georgetown Potential to defer Burloak WPP expansion Existing Oakville system can support greater Oakville Plant Capacity (achieved through optimization at existing site) 	<ul style="list-style-type: none"> Fundamentals of agreement needs to be established Confirmation of available Peel capacity and trunk system impacts need to be confirmed Need to enter into Inter-regional cost sharing supply agreement One feed to Georgetown no supply redundancy 	Concept 3A – Peel Inter-regional Inter-regional Peel Supply to Zone 5 Concept 3B – Peel Inter-regional Inter-regional Peel Supply to Zone 6	Common Halton only infrastructure. Triggers Peel infrastructure with environmental mitigation requirements Least Preferred	Requires coordination and agreement with Peel Neutral	Provides service area flexibility. Requires significant Peel infrastructure. Staging dependent on Peel capacity Neutral	Requires investment in Peel infrastructure Intermediate cost alternative Least Preferred	Notes: Zone 6 Peel interconnection has been carried forward under preliminary preferred alternative 1A as an emergency supply to Georgetown
				Least Preferred	Neutral	Neutral	Least Preferred	

South Halton Preliminary Preferred Water Servicing Strategy



South Halton Water Servicing Strategy

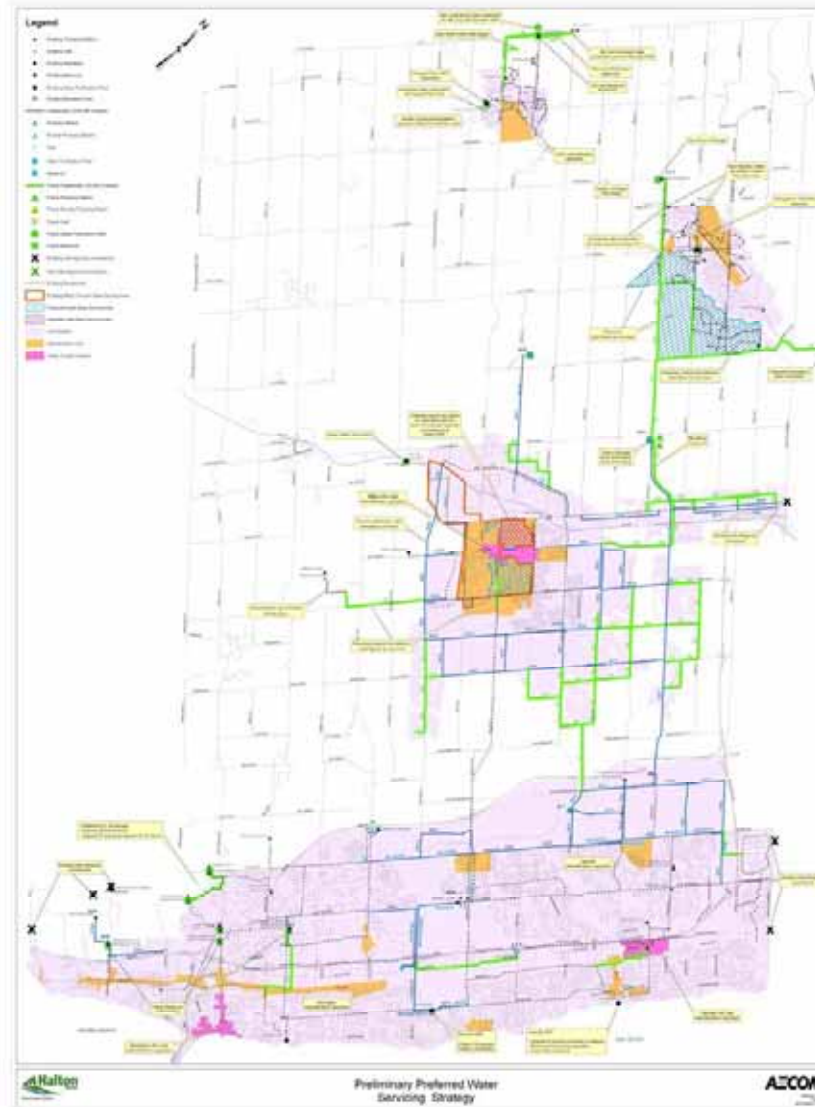
Preliminary preferred water servicing strategy for South Halton is as follows:

- Oakville WPP optimization
- Burloak WPP capacity expansion
- New feed to Washburn Pumping Station and Reservoir
- Twin storage cells at Washburn, Waterdown, Mountforest and Brant Reservoirs
- Additional Zone 3 and 4 storage in Burlington
- Increase pumping capacities in zones 3, 4 and 5
- Improve west to east transfer with new watermains on Wyecroft Road and Speers Road
- New Zone 6 pumping to service Georgetown greenfield growth

Rationale is to:

- Increase security/redundancy of supply
- Coordinate with phasing
- Build off & maximize use of existing & planned infrastructure
- Minimize operation & maintenance costs
- Provide a Halton-only solution

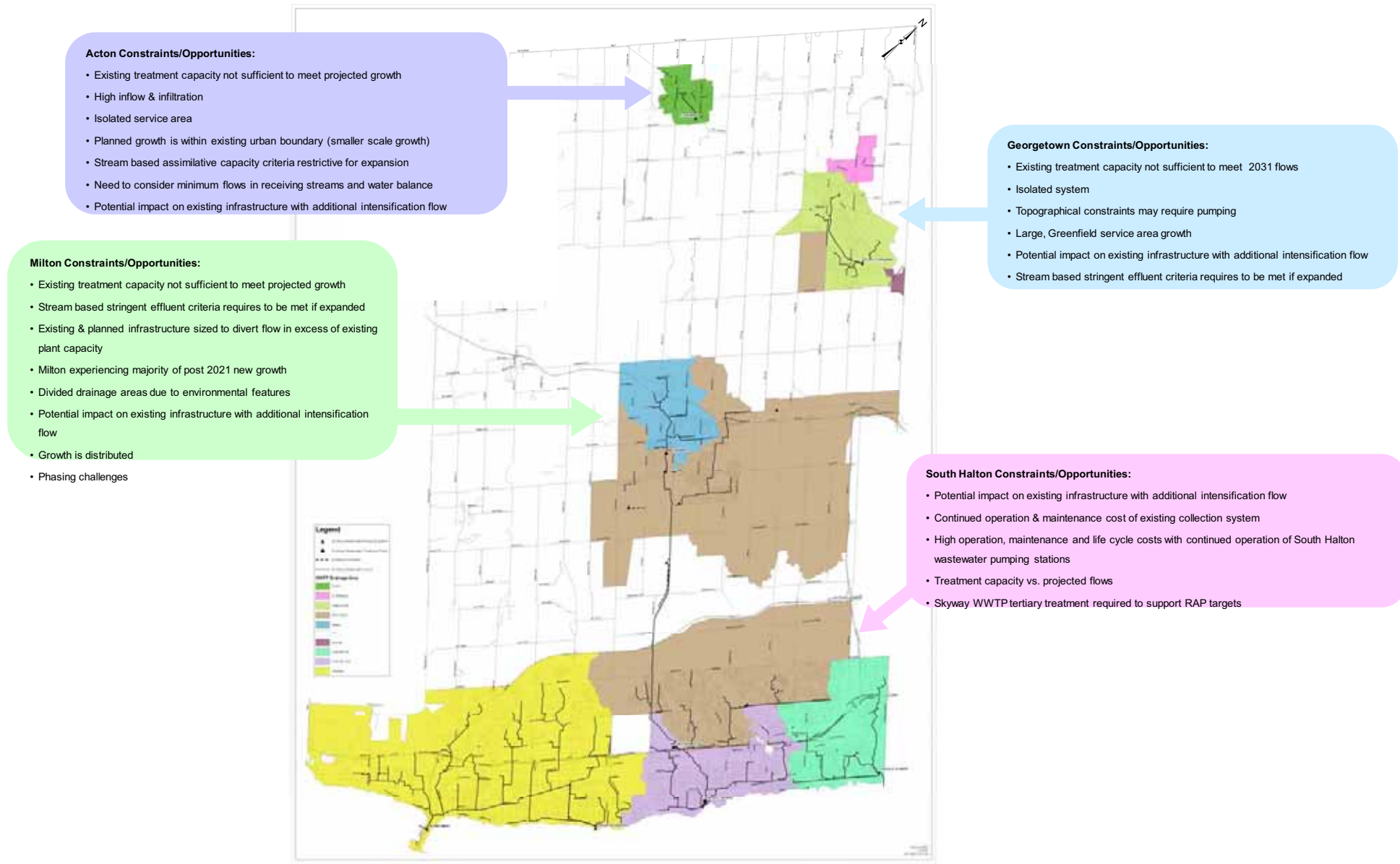
Halton Region Preliminary Preferred Water Servicing Strategy



Wastewater



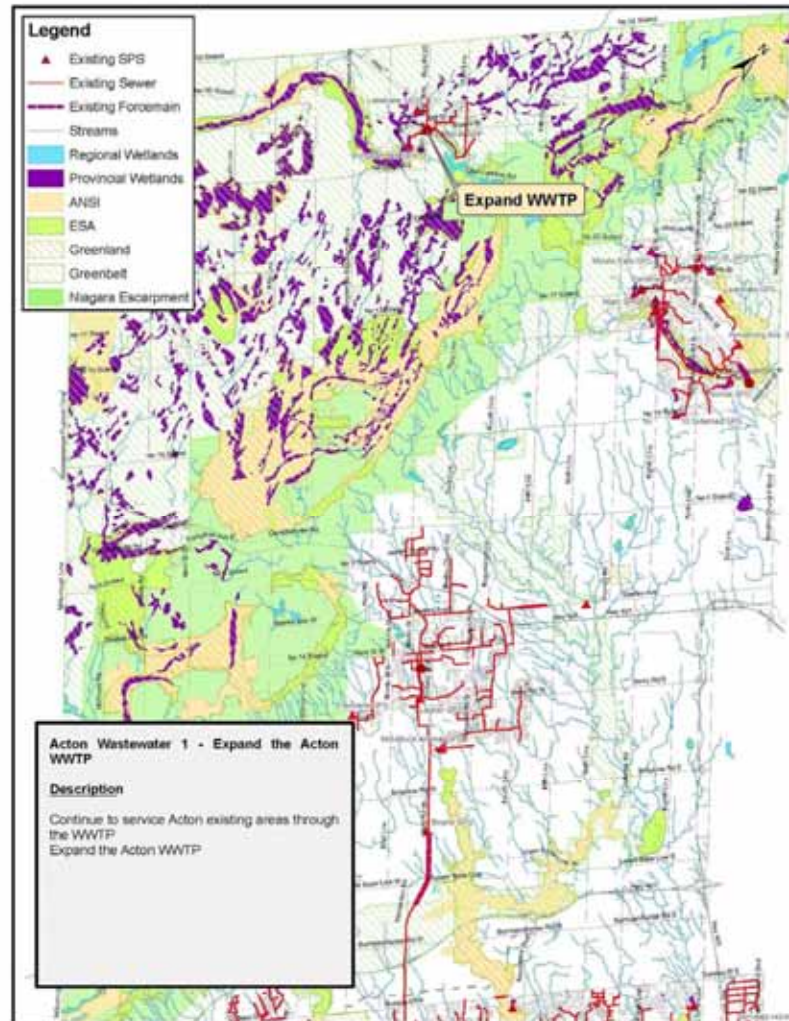
Wastewater Infrastructure and Issues



Decision Making Process – Acton Wastewater

Long List of wastewater servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred wastewater servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Expand the Acton WWTP	<ul style="list-style-type: none"> Maximizes existing infrastructure Addresses growth within existing urban boundary 	<ul style="list-style-type: none"> Potential impacts during construction Assessment of site capacity required Requirement to meet stringent effluent discharge criteria 	Concept 1 – Expand the Acton WWTP	Maintain water balance in community Preferred	Need to mitigate impacts during construction Preferred	Site capacity and treatment capacity can meet 2031 wastewater flows and effluent discharge criteria Preferred	Capital investment into existing infrastructure is required High cost alternative Preferred	Alternative 1 - Expand Acton WWTP to accommodate 2031 wastewater flows
Concept 2 – Reduce Inflow and Infiltration	<ul style="list-style-type: none"> Maximizes existing infrastructure No major upgrades required 	<ul style="list-style-type: none"> Requires implementation of flow reduction program Potential to not meet flow reduction targets Generally dependent on public participation and commitment 	Concept 2 – Reduce Inflow and Infiltration	Minor impact during construction Neutral	Dependent on public participation Neutral	Does not adequately address growth needs in Acton Least Preferred	Dependent on public and private infrastructure investment Lower cost alternative but does not adequately address growth needs Neutral	Notes: Inflow /infiltration program recommended in conjunction with preliminary recommended servicing solution
Concept 3a – Trunk Sewer Diversion - Send flows to the Georgetown WW System	<ul style="list-style-type: none"> No upgrades required to existing plant Provides redundancy 	<ul style="list-style-type: none"> Protected Area (NEC) Crossing Potential imbalance of water budget High cost for new infrastructure High reliance on capacity in Georgetown 	Concept 3 – Trunk Sewer Diversion - send flows to the Georgetown WW System	(Screened Out – No further evaluation undertaken)				
Concept 3b – Trunk Sewer Diversion - Send flows to the South Halton WW System	<ul style="list-style-type: none"> No upgrades required to existing plant Provides redundancy Could potentially address full build-out needs 	<ul style="list-style-type: none"> Protected Area (NEC) Crossing Potential imbalance of water budget High cost for new infrastructure 	Concept 4 – Trunk Sewer Diversion - Send flows to the South Halton WW System	Significant sewer crossing of NEC Water balance concerns Least Preferred	Coordination needs for infrastructure alignments Need to address Greenbelt Plan Least Preferred	Minimizes requirements at existing Acton WWTP Greater distance, more crossings, and more challenging alignments than 3a. Least Preferred	Significant capital costs by diversion to South Halton Multiple crossings Potentially multiple wastewater pumping stations Highest cost alternative Least Preferred	

Acton Preliminary Preferred Wastewater Servicing Strategy



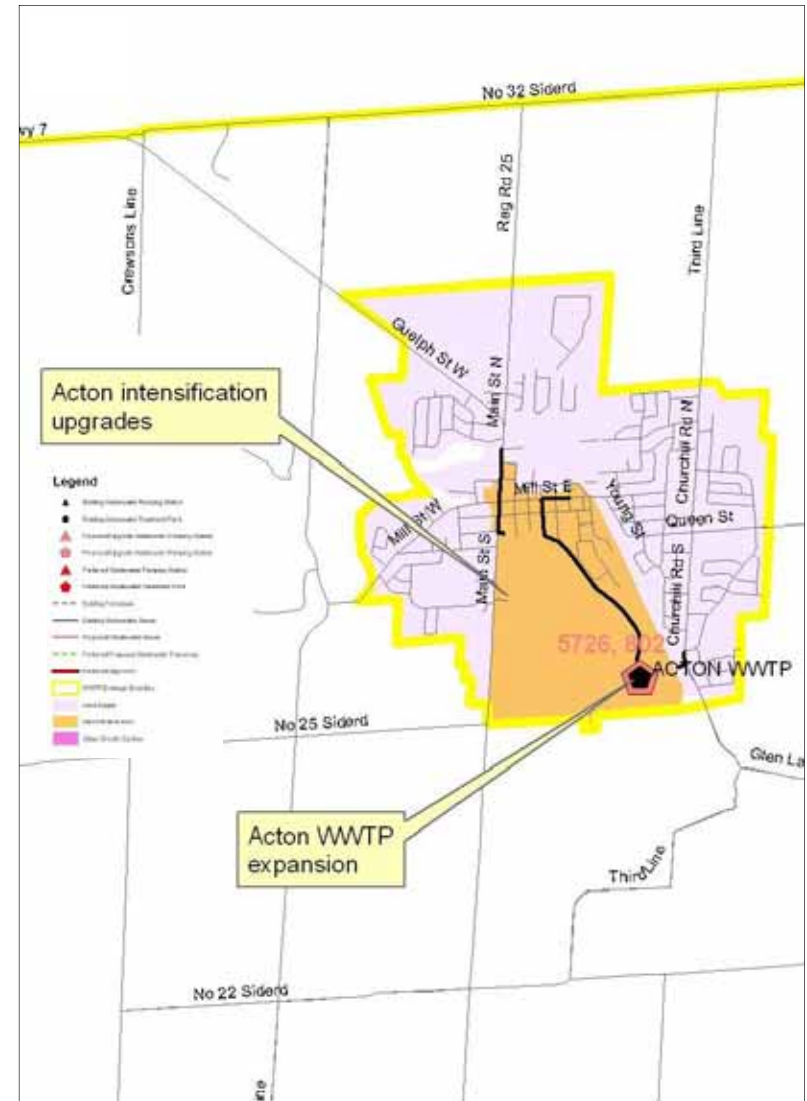
Acton Wastewater Servicing Strategy

Preliminary preferred wastewater servicing strategy for Acton is as follows:

- Allow system to operate independently
- Expand treatment capacity at existing Acton WWTP to meet 2031 flows

Rationale is to:

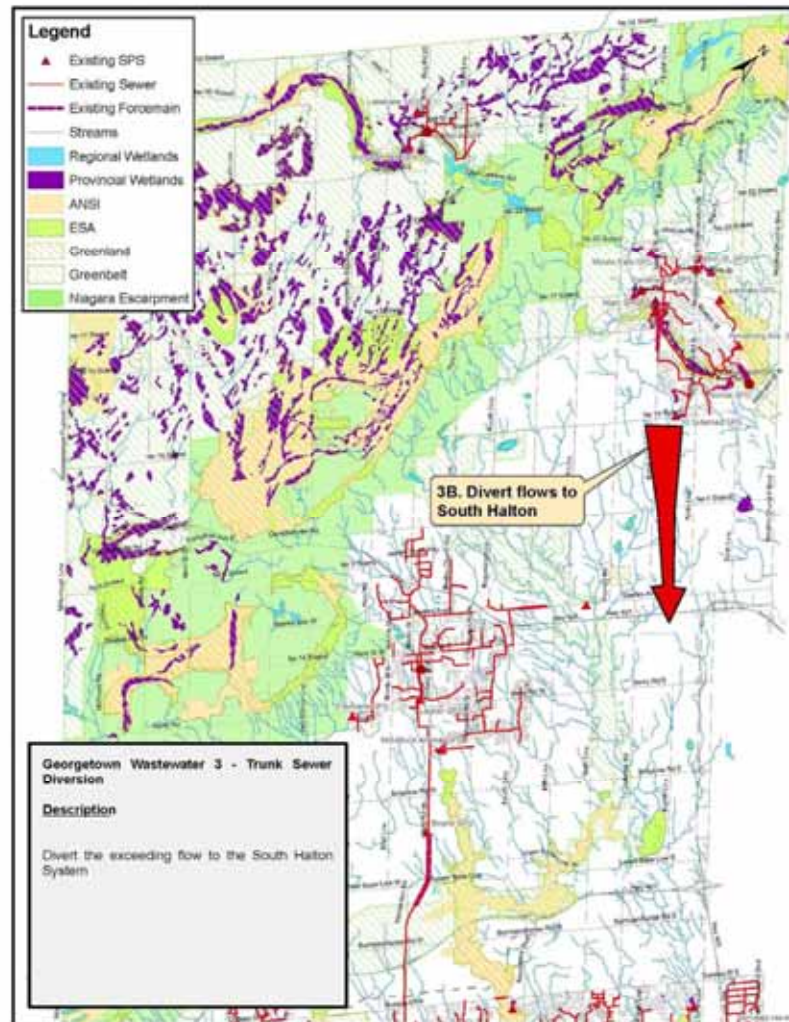
- Minimize impact to environmental features
- Maximize use of available infrastructure
- Halton-only solution



Decision Making Process – Georgetown Wastewater

Long List of wastewater servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred wastewater servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution from PIC#2
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Expand the Georgetown WWTP	<ul style="list-style-type: none"> Maximizes existing infrastructure Addresses growth within existing urban boundary 	<ul style="list-style-type: none"> Potential impacts during construction Assessment of site capacity required Requirement to meet stringent effluent discharge criteria Concern regarding meeting the full buildout requirements 	Concept 1 – Expand the Georgetown WWTP Only	Need to mitigate impact to effluent receiving stream Least Preferred	Need to mitigate impact during construction Least Preferred	Existing site capacity concerns Unable to meet full growth capacity Requirements to meet stringent effluent discharge requirements Least Preferred	Requires significant capital investment High cost alternative Least Preferred	
Concept 2 – Reduce Inflow and Infiltration	<ul style="list-style-type: none"> Maximizes existing infrastructure No major upgrades required 	<ul style="list-style-type: none"> Requires implementation of flow reduction program Potential to not meet flow reduction targets Generally dependent on public participation and commitment 	Concept 2 – Reduce Inflow and Infiltration	Minor impact during construction Neutral	Dependent on public participation Neutral	Does not adequately address growth needs in Acton Least Preferred	Dependent on public and private infrastructure investment Lower cost alternative but does not adequately address growth needs Neutral	Notes: Inflow /Infiltration program recommended in conjunction with preliminary recommended servicing solution
Concept 3a – Trunk Sewer Diversion - Send flows to the Peel WW System	<ul style="list-style-type: none"> No upgrades required to existing plant for growth Provides redundancy Addresses greenfield growth and could consider full system capacity 	<ul style="list-style-type: none"> Potential impact on local aquifer due to water balance management High cost for new infrastructure Confirmation of available Peel capacity and trunk system impacts need to be confirmed Fundamentals of agreement need to be established 	Concept 3a – Trunk Sewer Diversion - Send flows to the Peel WW System	Maintains water balance in community Neutral	Requires coordination and agreement with Peel Neutral	Provides service area flexibility Requires significant Peel infrastructure Staging dependent on Peel capacity Neutral	Requires investment in Region of Peel infrastructure Highest cost alternative Least Preferred	
Concept 3b – Trunk Sewer Diversion - Send flows to the South Halton WW System	<ul style="list-style-type: none"> No upgrades required to existing plant for growth Provides redundancy Addresses greenfield growth and could consider full system capacity 	<ul style="list-style-type: none"> Potential imbalance of water budget High cost for new infrastructure would require coordination with post 2021 service area 	Concept 3b – Trunk Sewer Diversion - Send flows to the South Halton WW System	Maintains water balance in community Preferred	Need to mitigate impacts during construction Majority of infrastructure located within existing road right-of-ways Preferred	Provides service area flexibility Requires significant South Halton infrastructure Some phasing opportunities for servicing Preferred	Cost for sewers to South Halton Leverages capital program for South Halton Medium cost alternative Preferred	Alternative 3b Trunk sewer diversion of new growth flow as well as strategic upgrades/improvements to the Georgetown WWTP Preferred

Georgetown Preliminary Preferred Wastewater Servicing Strategy



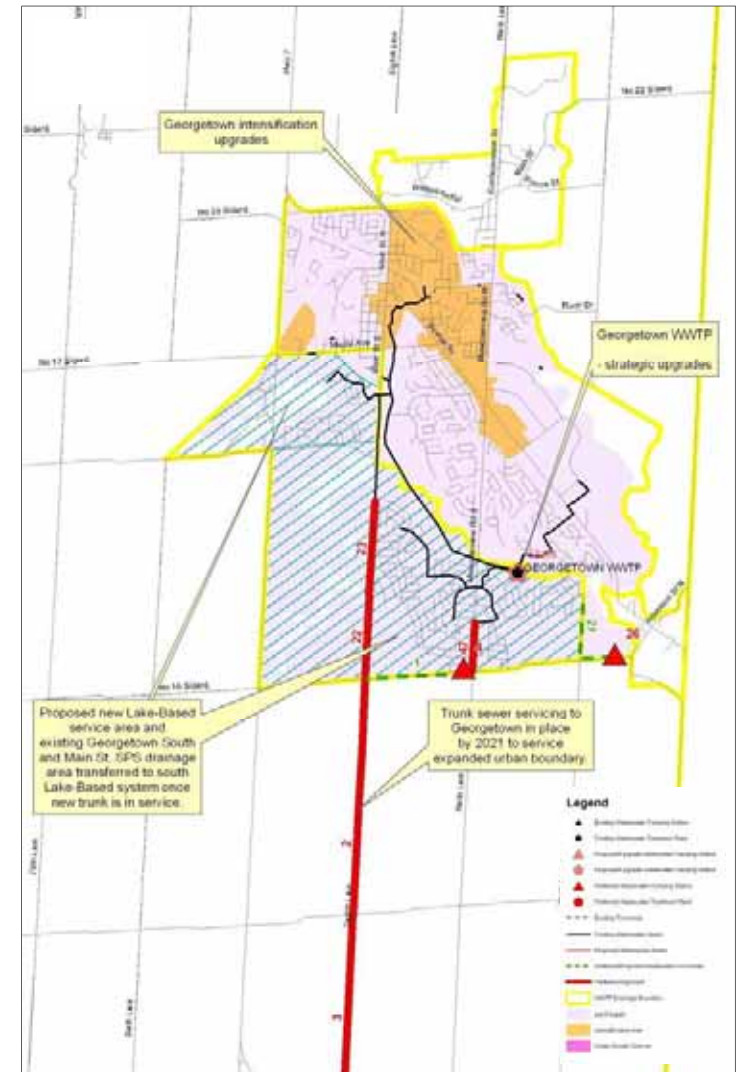
Georgetown Wastewater Servicing Strategy

Preliminary preferred wastewater servicing strategy for Georgetown is as follows:

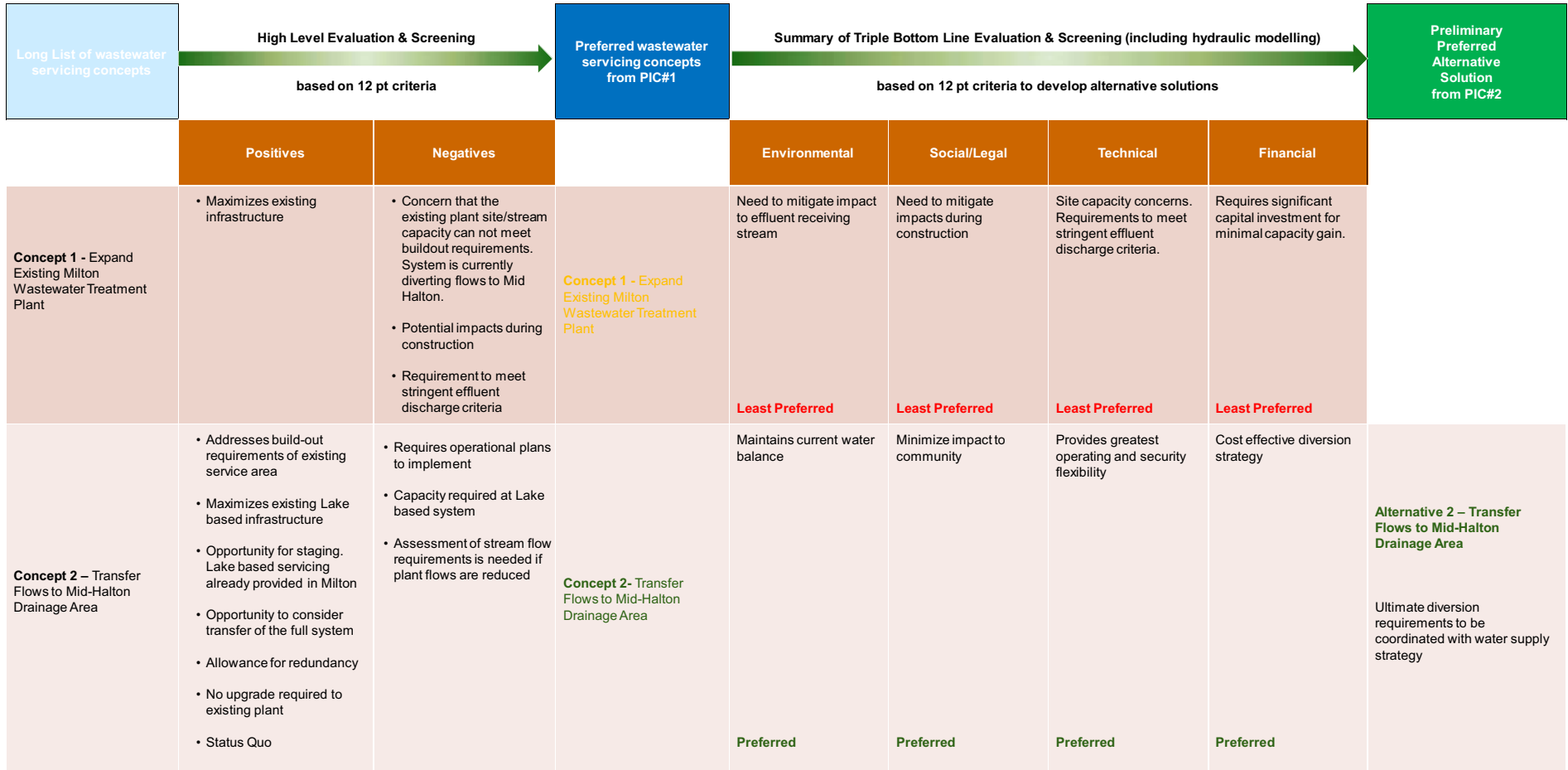
- Construct new sewage pumping stations (SPS) and forcemain
- Expand gravity collection system
- Georgetown WWTP will not be able to support growth to 2031. New greenfield growth flows to be sent south to Mid-Halton WWTP
- Switch over some existing service area to Lake-based

Rationale is to:

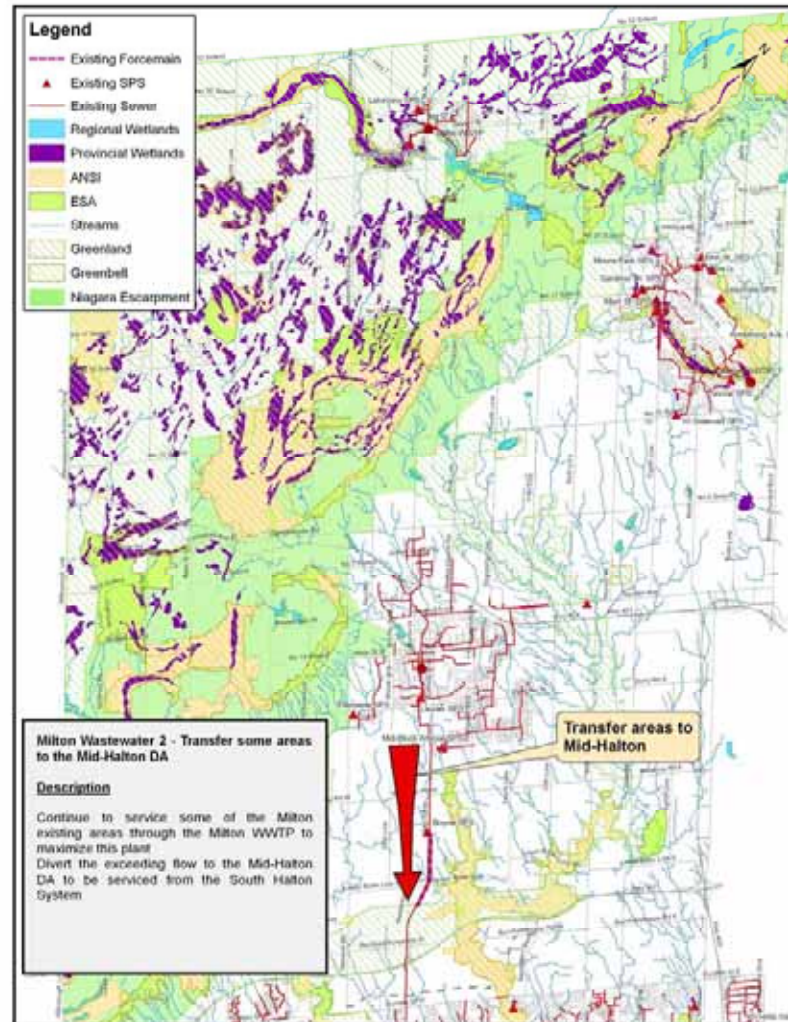
- Minimize impact to environmental features
- Coordinate with road widening/phasing of growth
- Maximize available collection, treatment, and capacity in south system
- Develop a servicing strategy that has the flexibility to peel off areas (Stewarttown and South Hill) within Georgetown WWTP drainage area and send those flows south via 8th/9th Line Trunk Sewer



Decision Making Process – Milton Wastewater



Milton Preliminary Preferred Wastewater Servicing Strategy



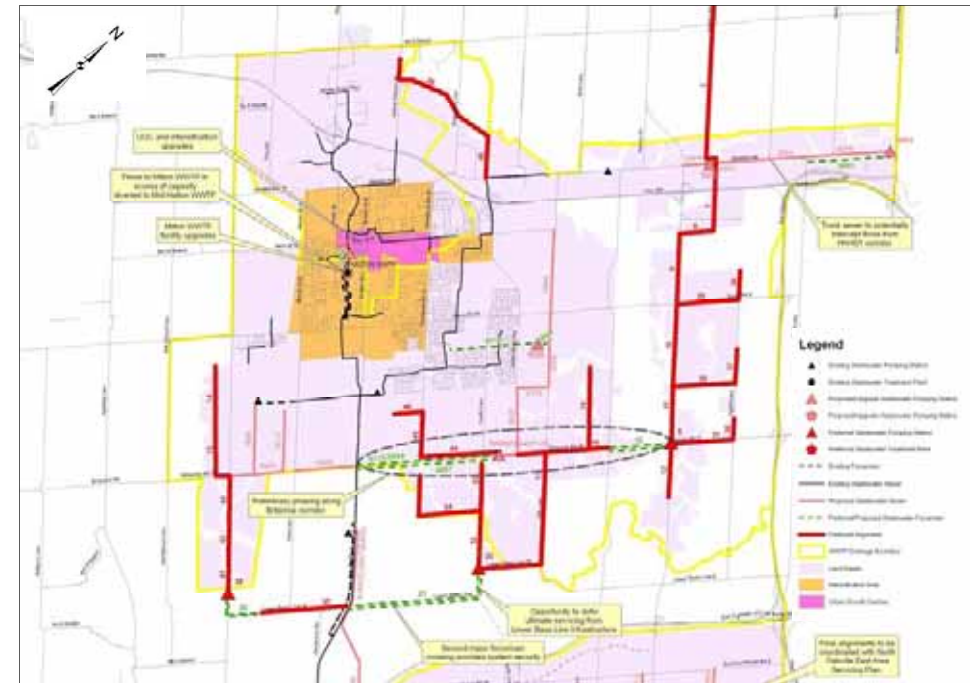
Milton Wastewater Servicing Strategy

Preliminary preferred wastewater servicing strategy for Milton is as follows:

- Continue to divert flows to Mid Halton
- Expand Fulton Sewage PS capacity at Milton WWTP
- Expand gravity collection system
- Construct new pumping stations and forcemains to service growth areas

Rationale is to:

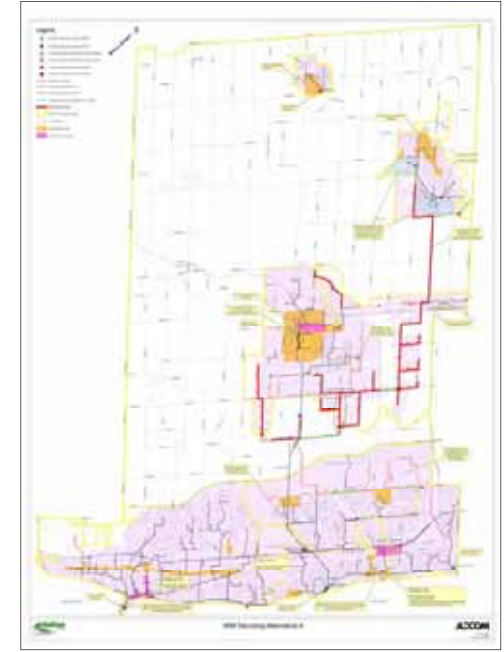
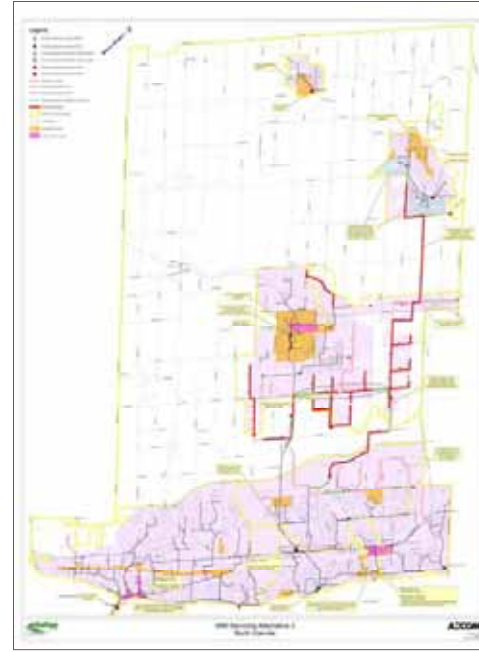
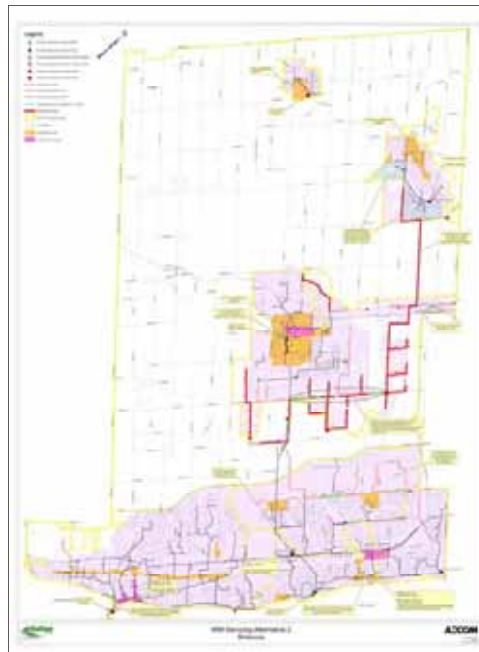
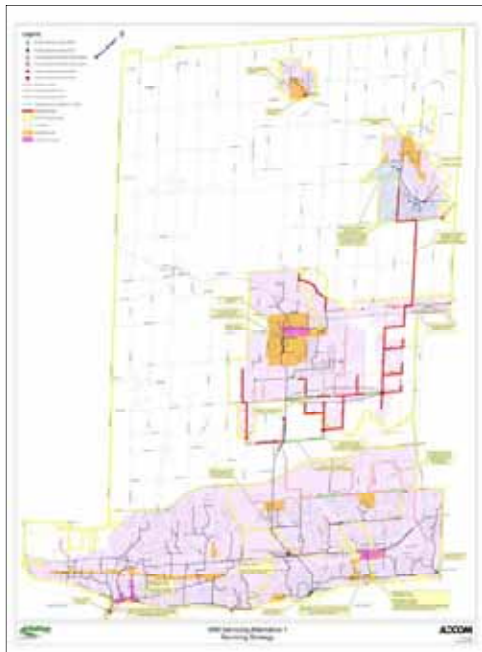
- Build off existing & planned infrastructure
- Overcome topographical and environmental constraints
- Develop an overall servicing strategy that facilitates phasing of growth/development
- Coordinate with planned transportation projects



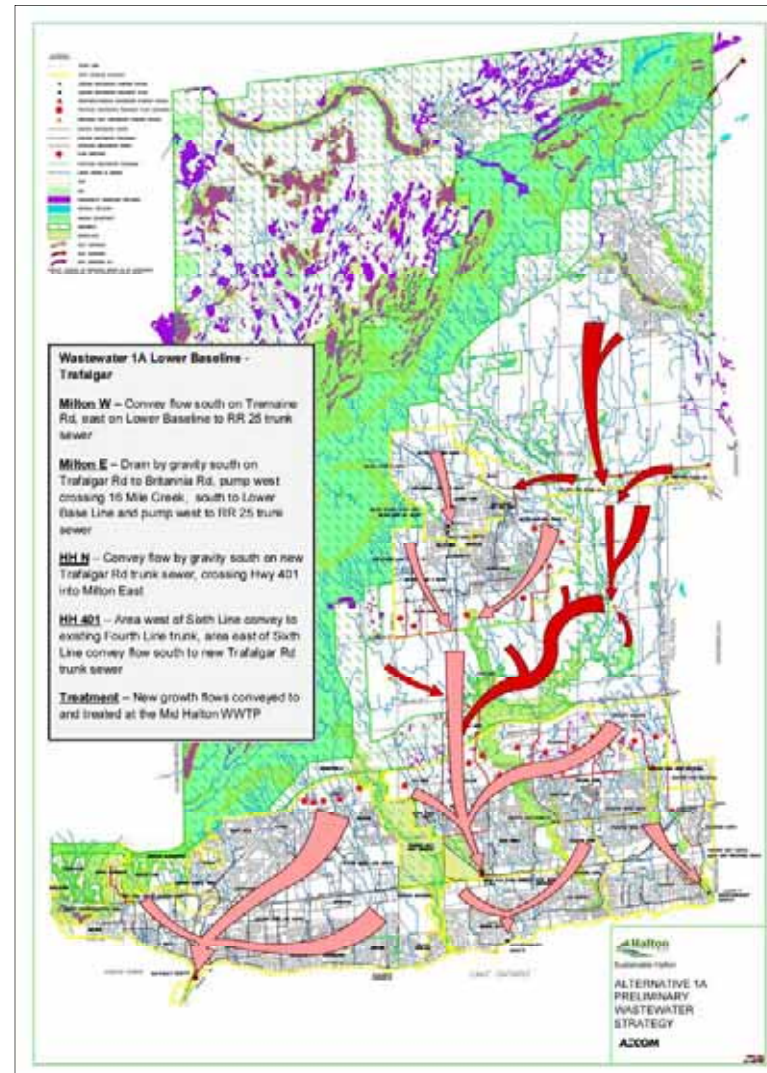
Decision Making Process – South Halton Wastewater

Long List of wastewater servicing concepts	High Level Evaluation & Screening based on 12 pt criteria		Preferred wastewater servicing concepts from PIC#1	Summary of Triple Bottom Line Evaluation & Screening (including hydraulic modelling) based on 12 pt criteria to develop alternative solutions				Preliminary Preferred Alternative Solution
	Positives	Negatives		Environmental	Social/Legal	Technical	Financial	
Concept 1 - Lower Baseline (1A, 1B, 1C, 1D, 1E, 1F, 1G)	<ul style="list-style-type: none"> Builds on to existing servicing strategy Provides an independent 2nd spine trunk sewer Maximizes Milton Fourth Line Trunk Capacity Greenfield growth triggers new infrastructure and minimizes impact on existing Halton only servicing concept 	<ul style="list-style-type: none"> Potentially more complex phasing opportunities Requires significant environmental crossing 	Concept 1 (1A) – Lower Baseline (Trafalgar corridor)	Focused infrastructure on existing roads Common major crossings and environmental considerations Mitigative needs at Lower Baseline crossing Neutral	Maintains infrastructure within existing roads Preferred	Provides greatest operating and security flexibility Preferred	Staging can provide opportunity to defer capital High cost alternative Neutral	Alternative 1A – Lower Baseline (Trafalgar corridor) Separate alignment and facility site evaluations have been undertaken
	<ul style="list-style-type: none"> Potential to lower O&M costs by reducing WWPS Maximizes Milton Fourth Line Trunk Capacity Greater flexibility for sizing and design to support strategy Halton only servicing concept 	<ul style="list-style-type: none"> Only feasible if connection south of Lower Baseline is possible Dependent on accelerating new trunk infrastructure Requires immediate coordination with current Business Park II projects Requires significant environmental crossing 	Concept 1 (1F) – Lower Baseline (no Britannia Road WWPS)	Focused infrastructure on existing roads Common major crossings and environmental considerations Mitigative needs at Lower Baseline crossing Eliminates 1 major crossing Preferred	Increases wastewater pumping station capacity near residential areas Neutral	Requires significant wastewater pumping station capacity in 1 location Least Preferred	Requires additional infrastructure sooner High cost but lowest total cost alternative Highest up front cost alternative Neutral	
Concept 2 - Britannia Road (2A, 2B, 2C, 2D)	<ul style="list-style-type: none"> Maximizes existing / planned infrastructure Maximizes Milton Fourth Line Trunk Capacity Potential to minimize environmental crossings Opportunity for phasing Milton South Halton only servicing concept 	<ul style="list-style-type: none"> Provides less redundancy Requires upgrades to existing / planned infrastructure Less flexibility to service build out areas Very reliant on pumping 	Concept 2 (2A) – Britannia Road (Britannia Road West)	Focused infrastructure on existing roads Common major crossings and environmental considerations Eliminates 1 major crossing Preferred	Increases wastewater pumping station capacity near residential areas Least Preferred	Requires significant wastewater pumping station capacity in 1 location Least Preferred	Requires oversizing considerations at Britannia Rd WWPS High cost alternative Neutral	Notes: Interim connection along Britannia has been carried forward under preliminary preferred alternative 1A in order to facilitate phasing
Concept 3 - North Oakville (3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I)	<ul style="list-style-type: none"> Provides an independent 2nd spine trunk sewer Opportunity to coordinate with road construction Maximizes Milton Fourth Line Trunk Capacity Potential for lower environmental impacts Greater flexibility for sizing and design to support strategy Halton only servicing concept 	<ul style="list-style-type: none"> Does not maximize existing / planned infrastructure Dependent on road / bridge construction coordination Minimal phasing opportunities 	Concept 3 (3A) – North Oakville (Burnhamthorpe alignment)	Focused infrastructure on existing roads Common major crossings and environmental considerations Coordinates major crossing with new road alignment. Mitigative needs at Burnhamthorpe Rd crossing Neutral	Requires coordination with new roads Neutral	Requires coordination for additional infrastructure Neutral	Requires additional infrastructure Highest Halton only cost alternative Least Preferred	
Concept 4 - Peel Inter-regional (4A, 4B, 4C, 4D, 4E)	<ul style="list-style-type: none"> Potential phasing option for Georgetown Existing Peel infrastructure is close proximity to Halton service areas Maximizes Milton Fourth Line Trunk Capacity 	<ul style="list-style-type: none"> Fundamentals of agreement with Peel need to be established Confirmation of available capacity and/or trunk system impacts need to be confirmed Requires cost sharing agreement 	Concept 4 (4A) – Peel Inter-Regional....	Common Halton only infrastructure Triggers Peel infrastructure with environmental mitigation requirements Least Preferred	Requires coordination and agreement with Peel Neutral	Provides service area flexibility. Requires significant Peel infrastructure. Staging dependent on Peel capacity Neutral	Requires investment in Peel infrastructure Highest cost alternative Least Preferred	

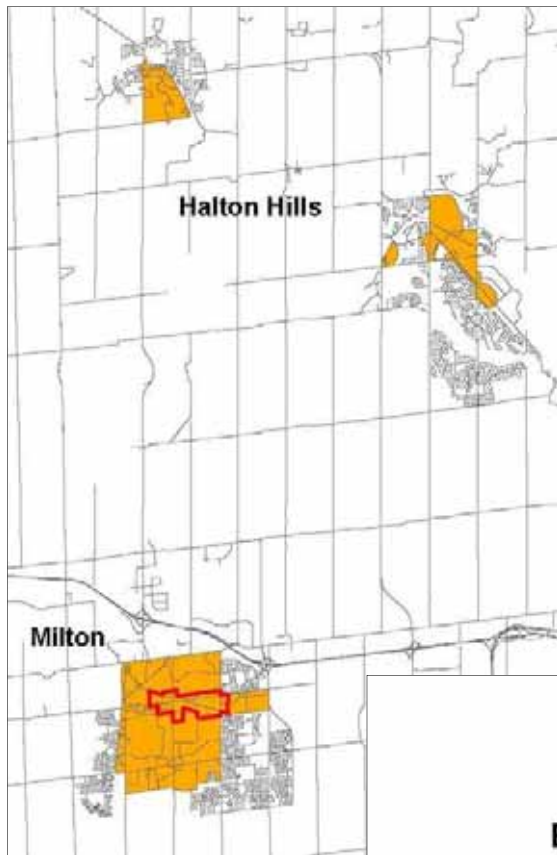
South Halton Wastewater Servicing Alternatives



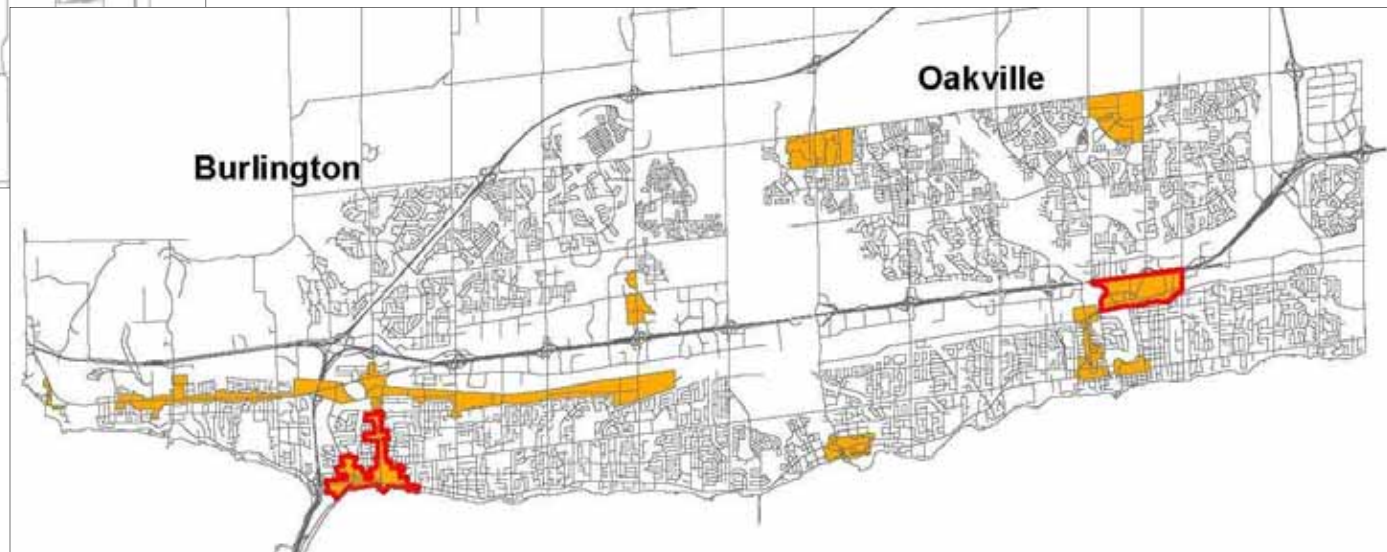
South Halton Preliminary Preferred Wastewater Servicing Strategy



Intensification Areas and Urban Growth Centres



- Target 40% growth within existing built boundary
- Intensification analysis included a review of potential impact to existing local and trunk level infrastructure
- Trunk level projects, such as pumping station, watermain and sanitary sewer upgrades, triggered by intensification will be included in the Master Plan's Preferred Strategy Capital Program
- Local level projects will be grouped by area to capture future impact on local servicing



Oakville Urban Growth Centre (UGC) Wastewater Servicing Evaluation

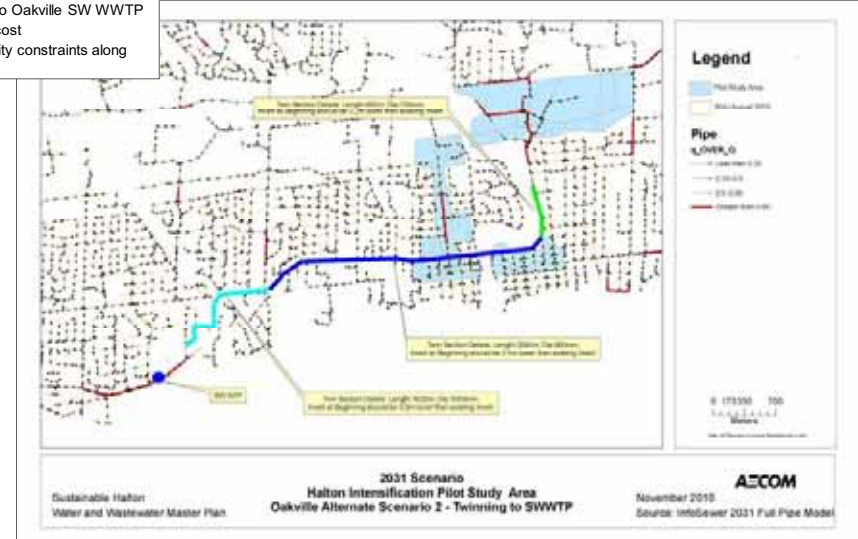
Oakville UGC Alternative 1 – New WWPS/FM to pump UGC flows across 16 Mile Creek and QEW to Mid Halton WWTP

- Lower initial capital cost
- High long term O & M and life cycle costs



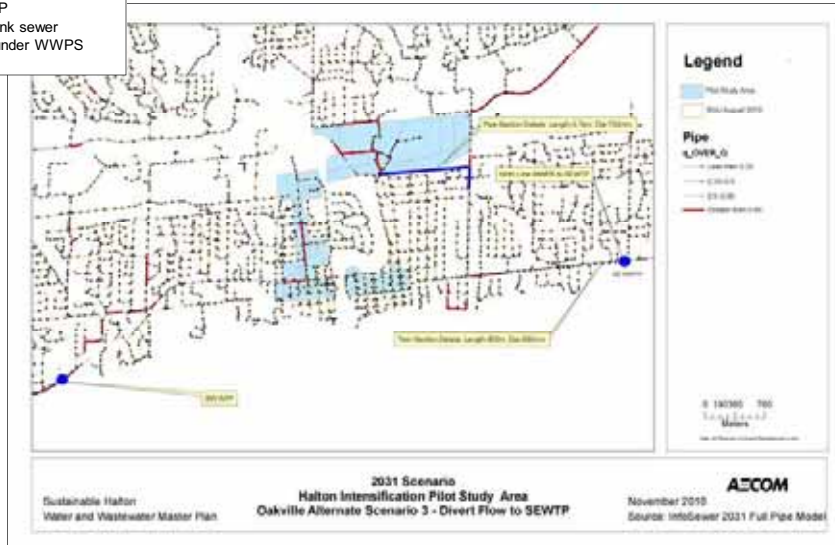
Oakville UGC Alternative 2 – New Rebecca St Sewer Twin from south of Oakville UGC to Oakville SW WWTP

- High capital cost
- Constructability constraints along Rebecca St



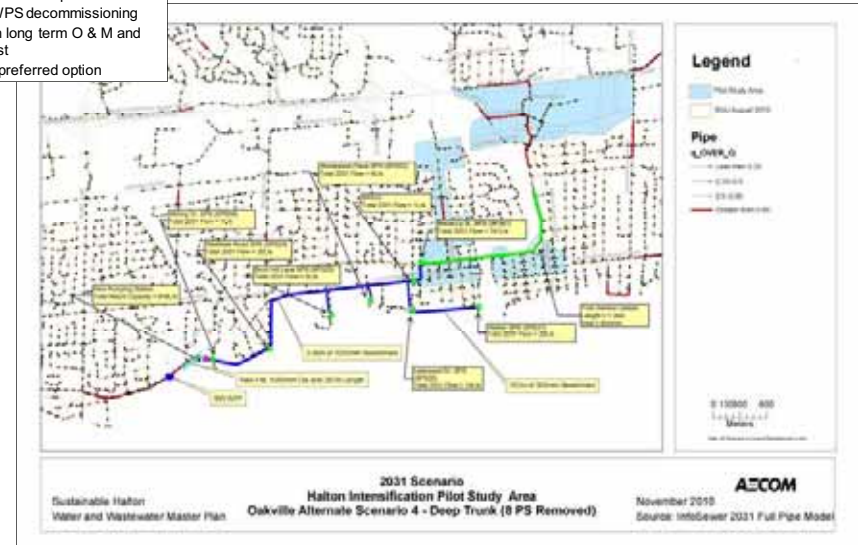
Oakville UGC Alternative 3 – New gravity sewer diversion to Oakville SE WWTP

- Impact on constrained capacity at Oakville SE WWTP
- Could leverage trunk sewer recommendation under WWPS Master Plan



Oakville UGC Alternative 4 – New deep trunk sewer from south of UGC to Oakville SW WWTP

- Highest capital cost option
- Multiple WWPS decommissioning
- Reduction in long term O & M and life cycle cost
- Preliminary preferred option



South Halton Wastewater Servicing Strategy

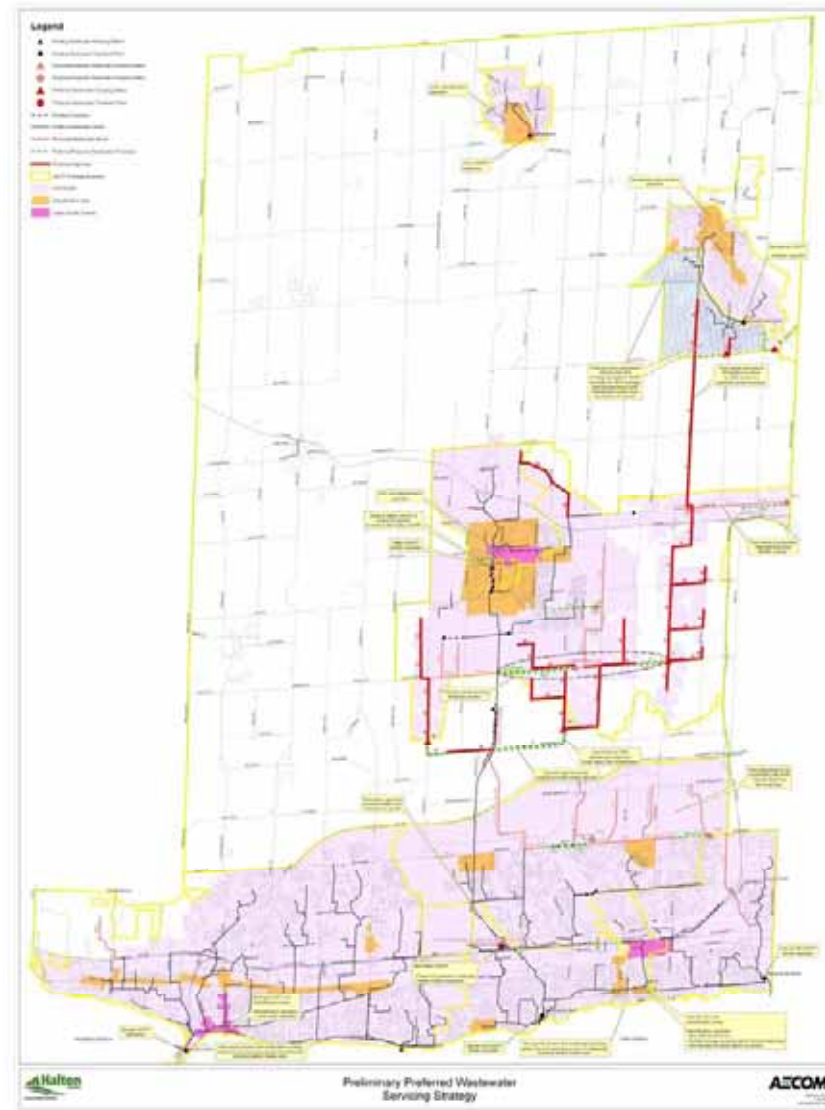
Preliminary preferred wastewater servicing strategy for South Halton is as follows:

- Existing plants continue to service existing drainage area
- Expand/upgrade Skyway & Mid-Halton WWTPs
- Mid Halton WWTP to service existing drainage area plus Milton & Georgetown new growth and transferred service areas
- Decommission pumping stations and construct new gravity sewers in Oakville & Burlington
- Coordinate servicing strategy with Sewage Pumping Station Master Plan recommendations

Rationale is to:

- Minimize pumping, operation, and maintenance costs
- Coordinate with phasing of growth/development
- Build off existing & planned infrastructure
- Expand/upgrade collection system to accommodate intensification

Halton Region Preliminary Preferred Wastewater Servicing Strategy



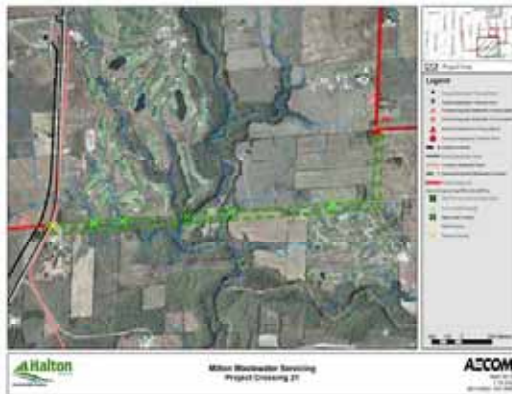
Vertical Project Site Selection

- Growth to 2031 triggers existing vertical infrastructure expansions and also the need for new infrastructure and sites
- Objective is to avoid/minimize natural heritage areas when selecting potential new sites for further evaluation
- Evaluate alternative sites including the consideration of existing natural conditions
- Key new sites and expansions include
 - Zone 6 Storage
 - Zone 4 Res Pumping Station
 - Multiple Reservoir Expansions
 - New Wastewater Pumping Stations
 - Burloak WPP
 - Mid-Halton WWTP, Effluent Sewer and Outfall
 - Acton & Georgetown Groundwater Expansions



Environmental Crossings

- Several new alignments require environmental crossings
- For projects within existing open road right-of-ways Region will address engineering concerns through permit review for crossings of regulated watercourses
- For new crossings of well-vegetated valley features and major creek crossing projects, trenchless or “connected to bridge” construction methodology has been proposed

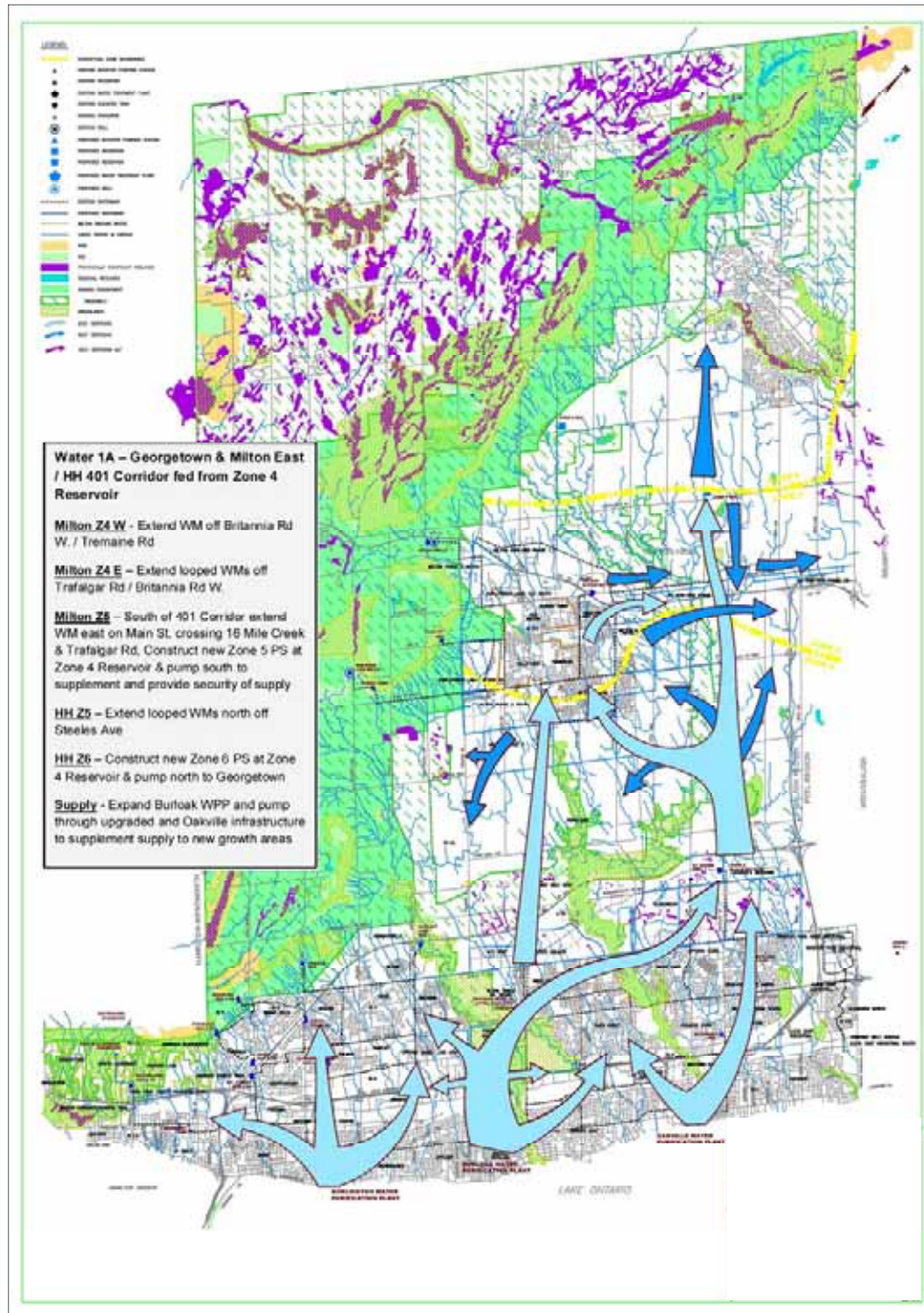


Next Steps

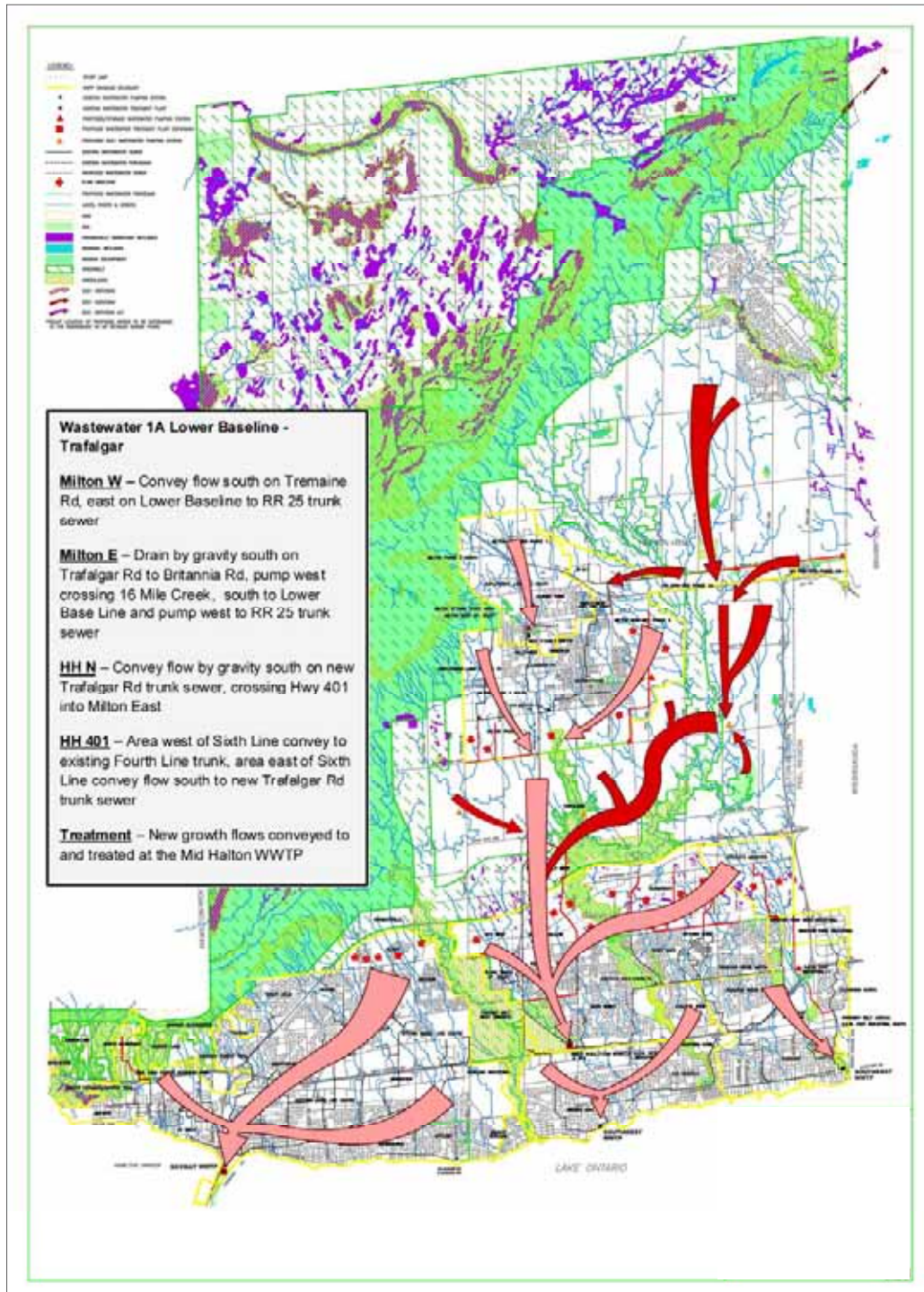
- The project team will:
 - compile information received from you and other stakeholders to finalize the servicing strategies
 - respond to other comments and questions we receive
 - Document the water and wastewater servicing strategy study and public consultation process
 - File the documentation on public record for a 45 day review period
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
- Key follow on studies would be undertaken as required
- Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule

THANK YOU FOR ATTENDING

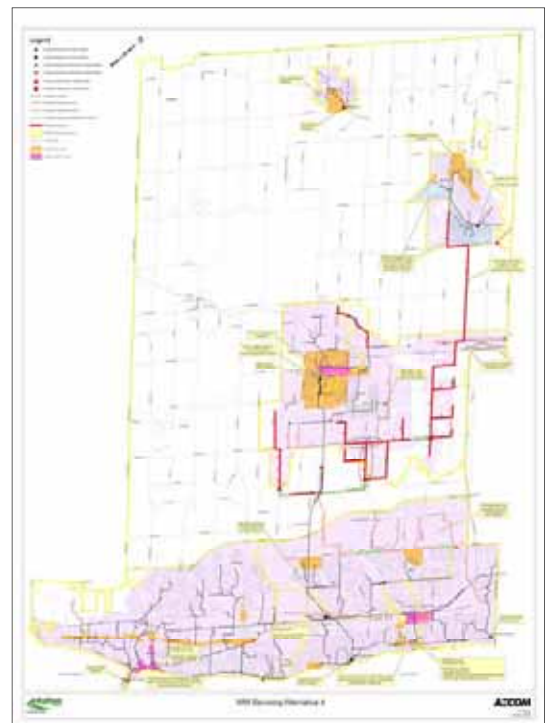
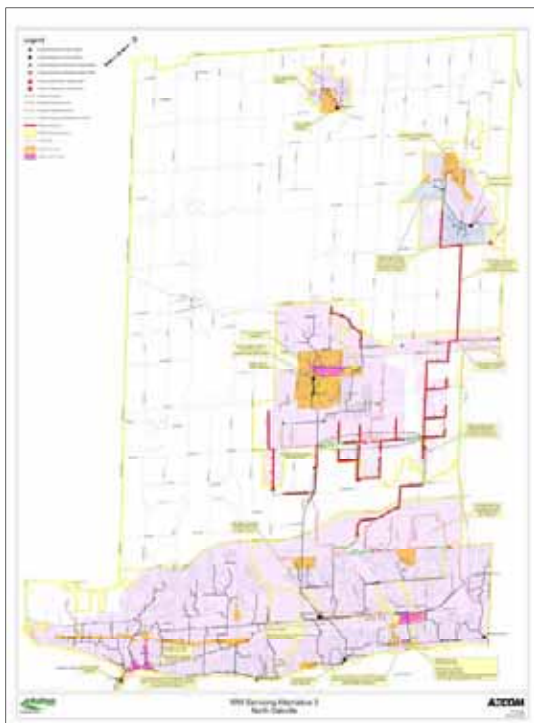
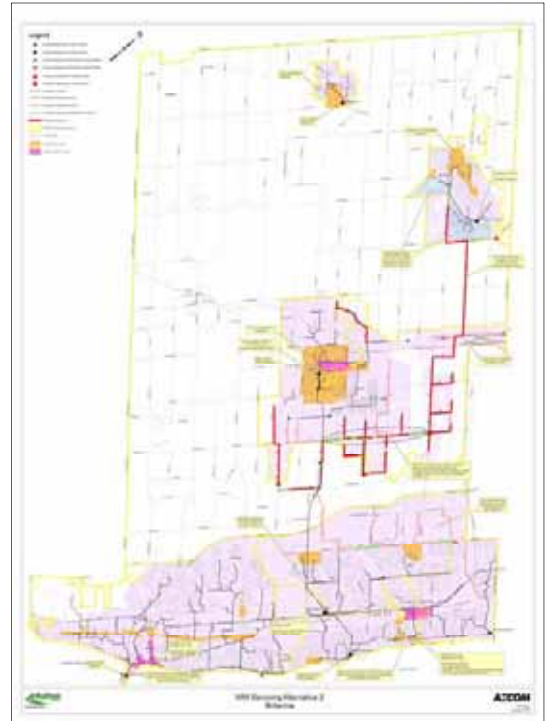
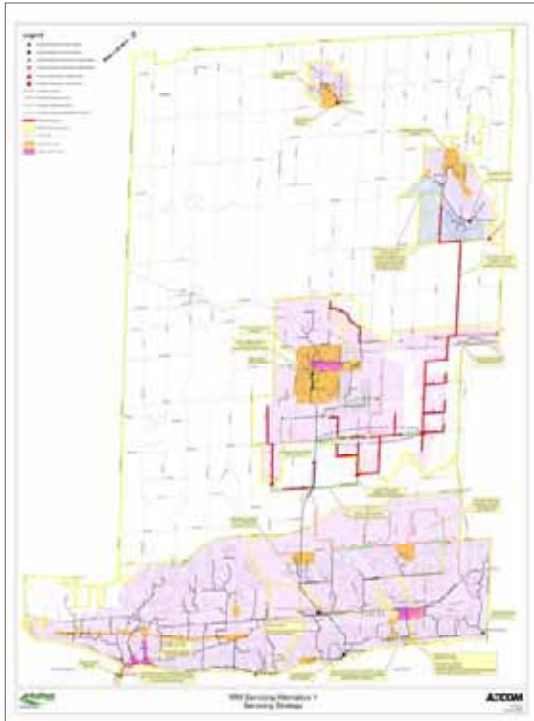
South Halton Preliminary Preferred Water Servicing Strategy



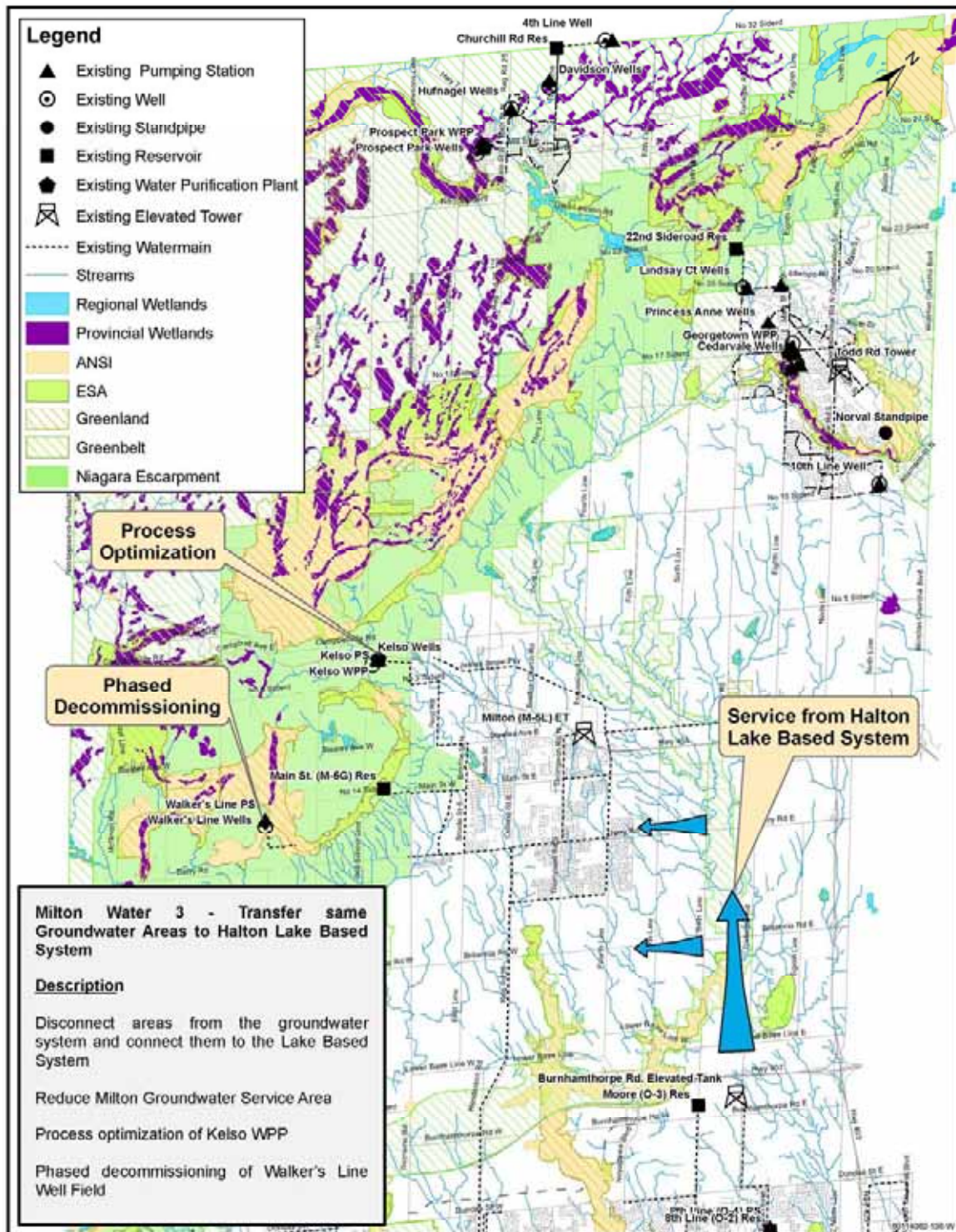
South Halton Preliminary Preferred Wastewater Servicing Strategy



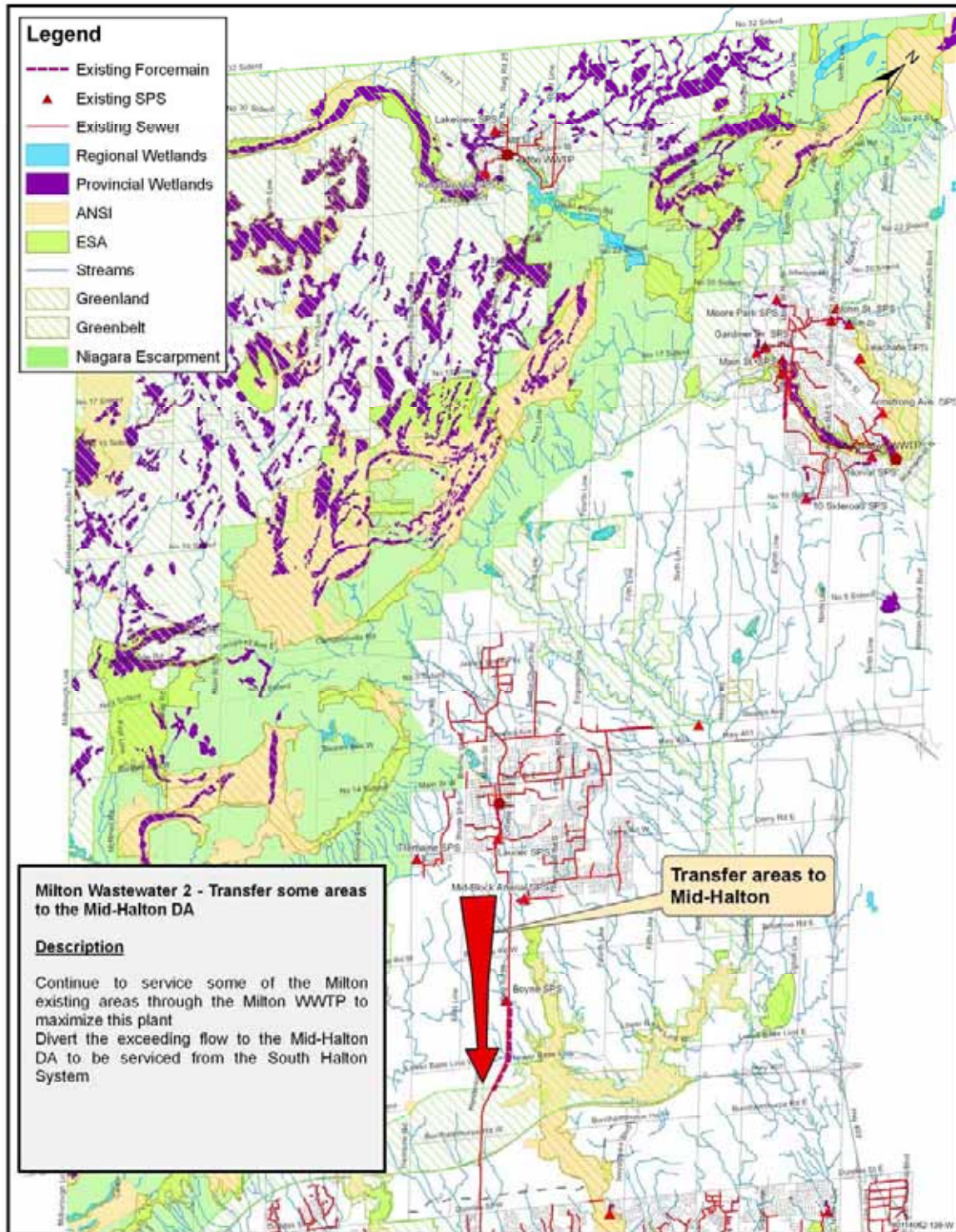
South Halton Wastewater Servicing Alternatives



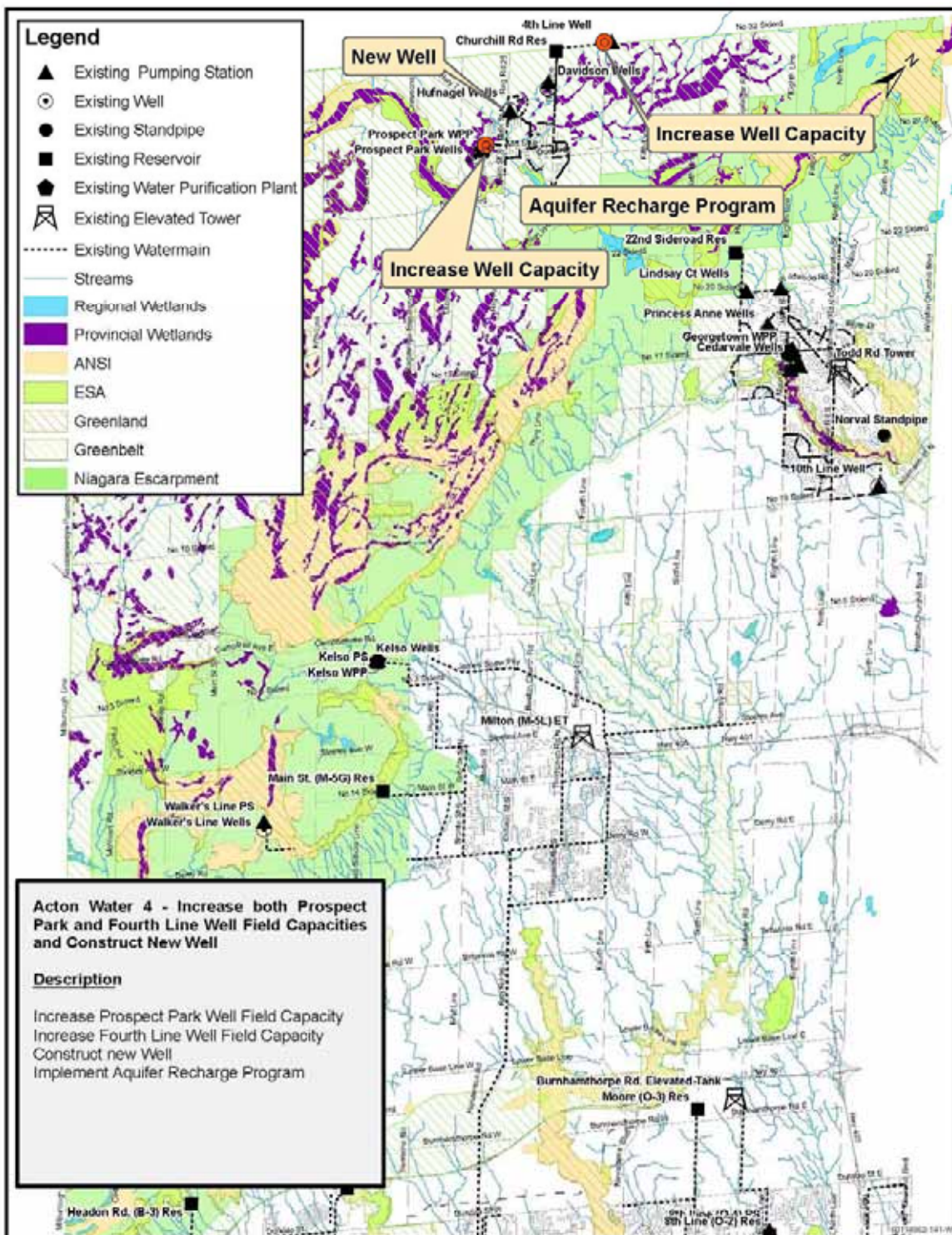
Milton Preliminary Preferred Water Servicing Strategy



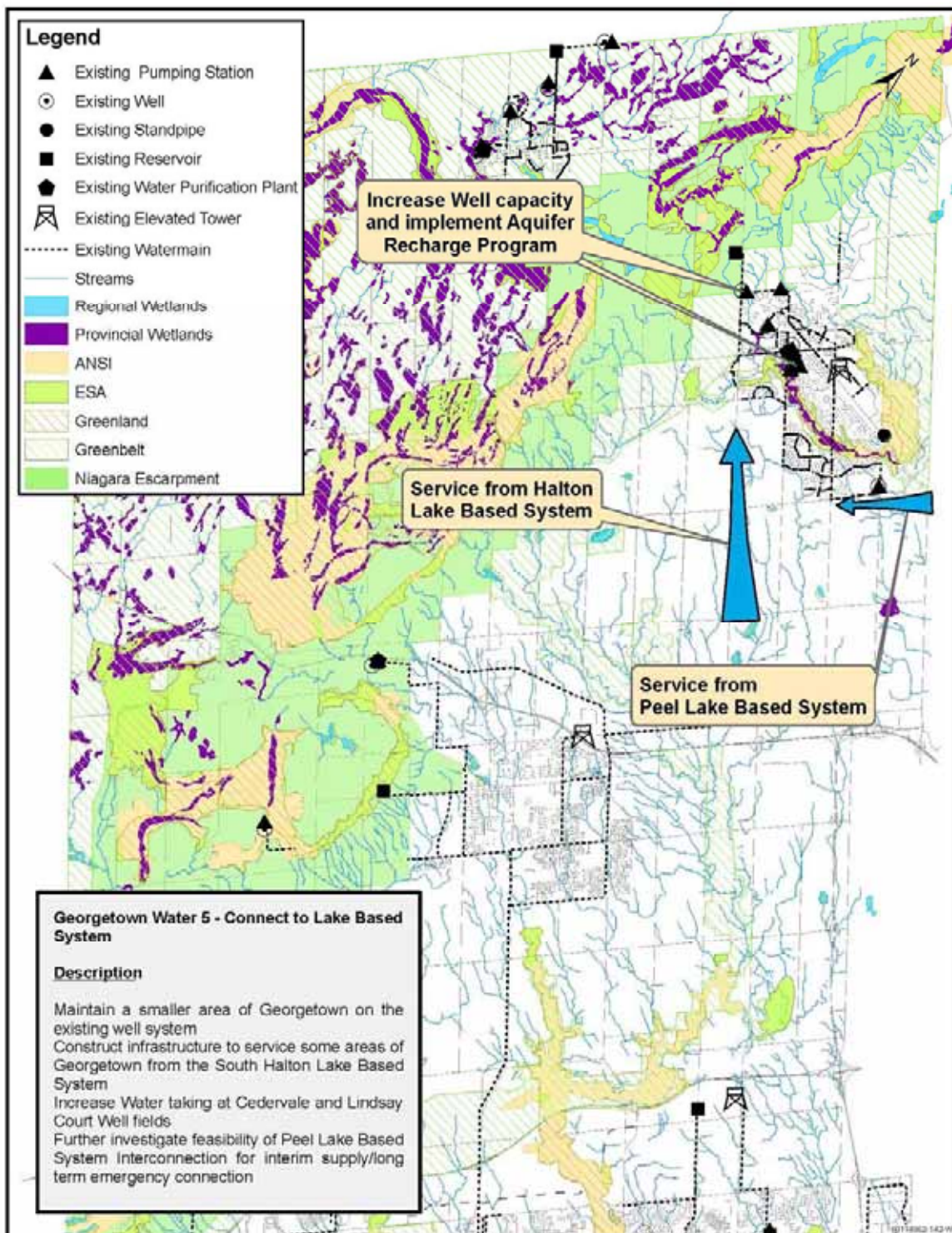
Milton Preliminary Preferred Wastewater Servicing Strategy



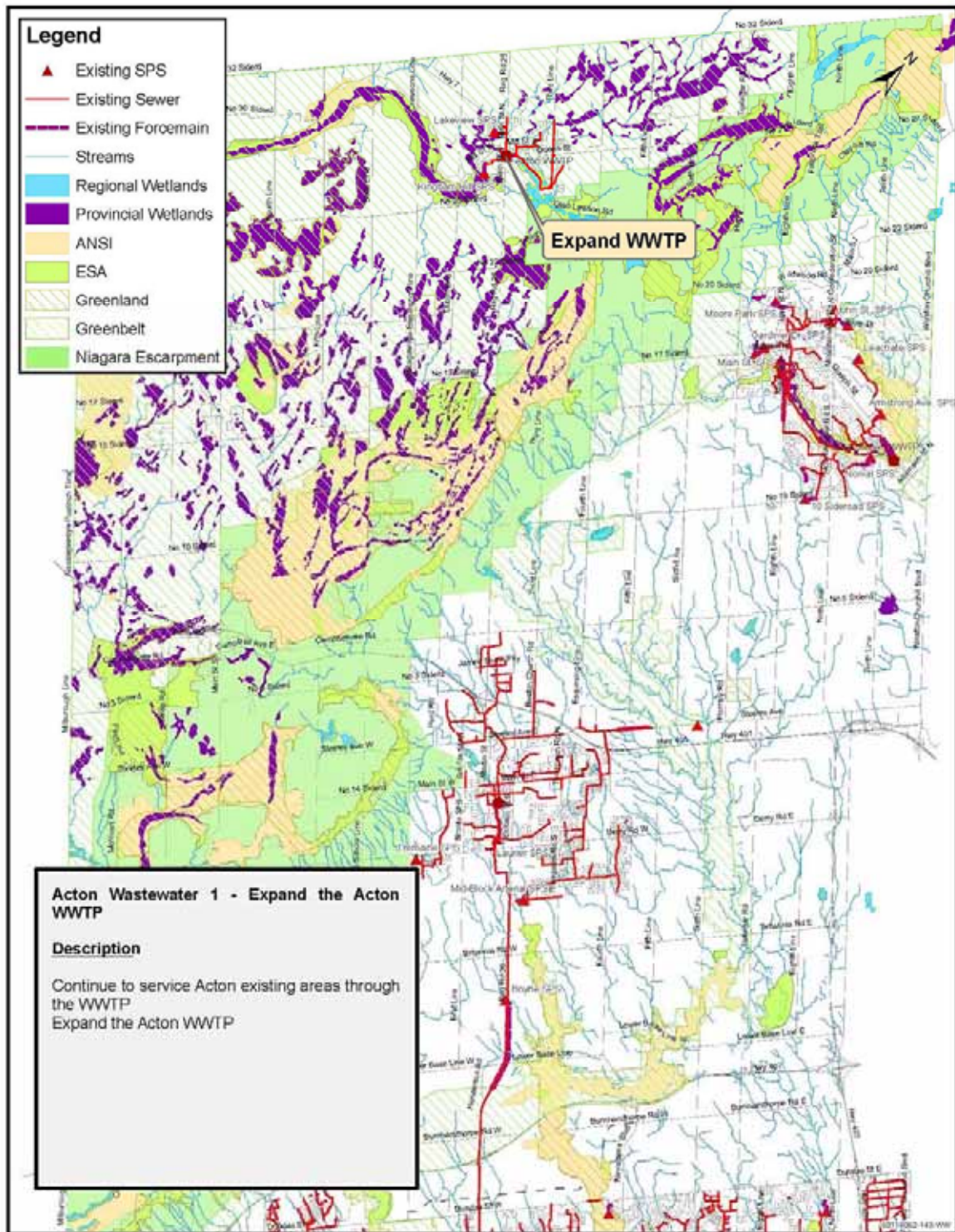
Acton Preliminary Preferred Water Servicing Strategy



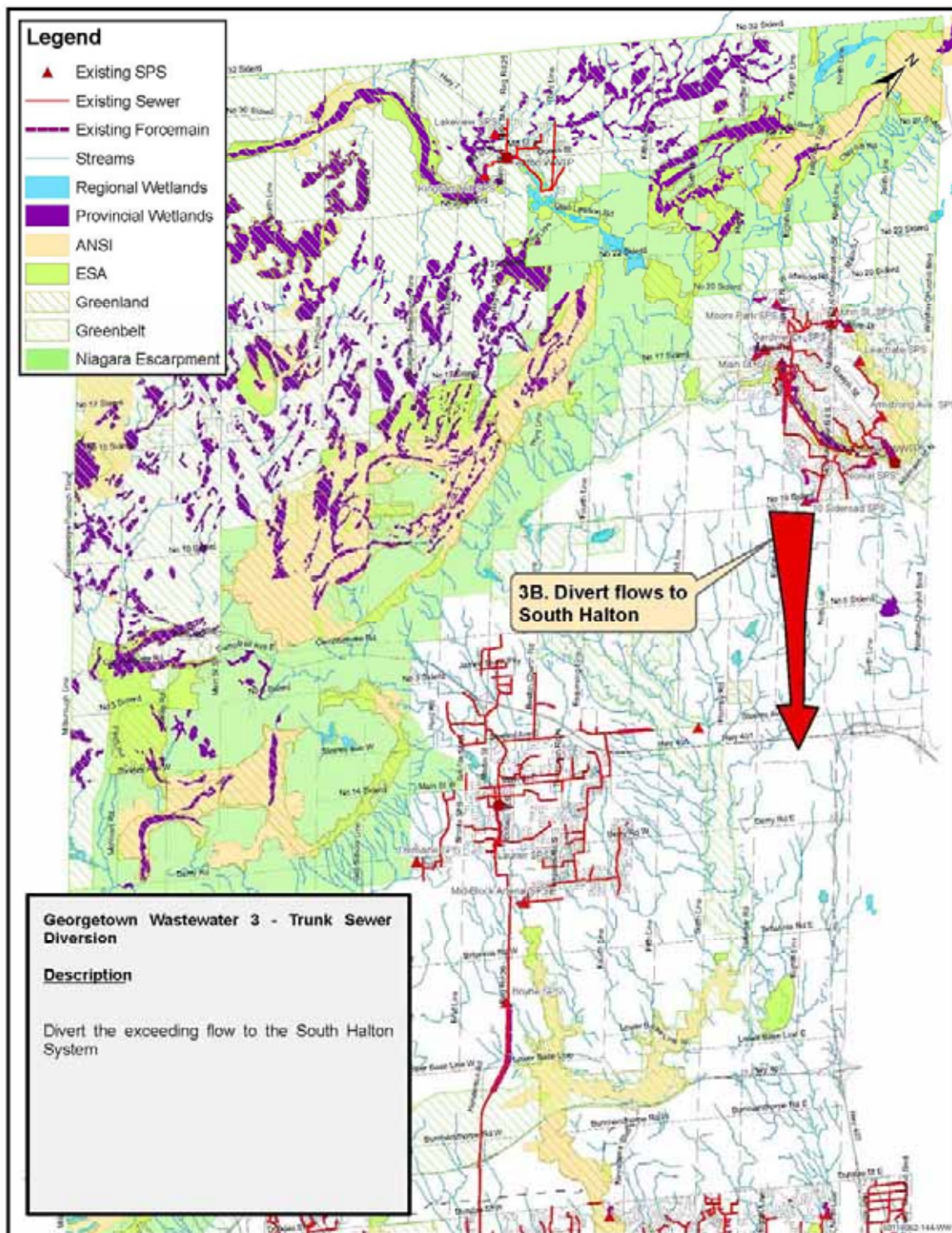
Georgetown Preliminary Preferred Water Servicing Strategy



Acton Preliminary Preferred Wastewater Servicing Strategy

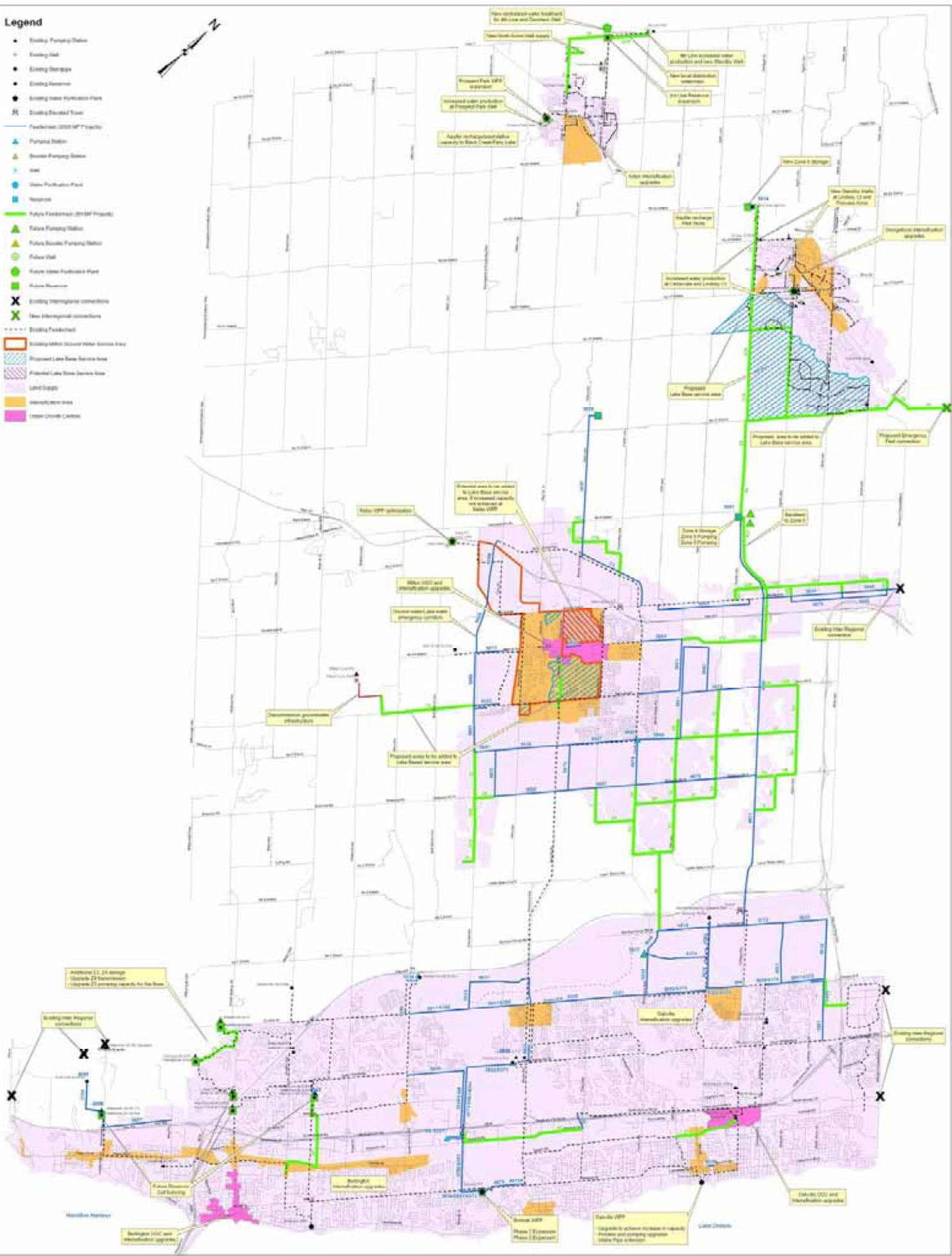


Georgetown Preliminary Preferred Wastewater Servicing Strategy



Legend

- Existing Pumping Station
- Existing Main
- Existing Storage
- Existing Reservoir
- Existing Water Production Plant
- Existing Elevated Tank
- Futurewater 2035 MP Property
- ▲ Pumping Station
- ▲ Future Pumping Station
- ▲ Future Elevated Tank
- ▲ Future Water Production Plant
- ▲ Future Reservoir
- ✕ Existing Interregional connection
- ✕ New Interregional connection
- Existing Footcandle
- ▭ Existing water service area boundary
- ▭ Proposed Lake Based Service Area
- ▭ Potential Lake Based Service Area
- ▭ Land Usage
- ▭ Interregional Area
- ▭ Water Transfer Corridor

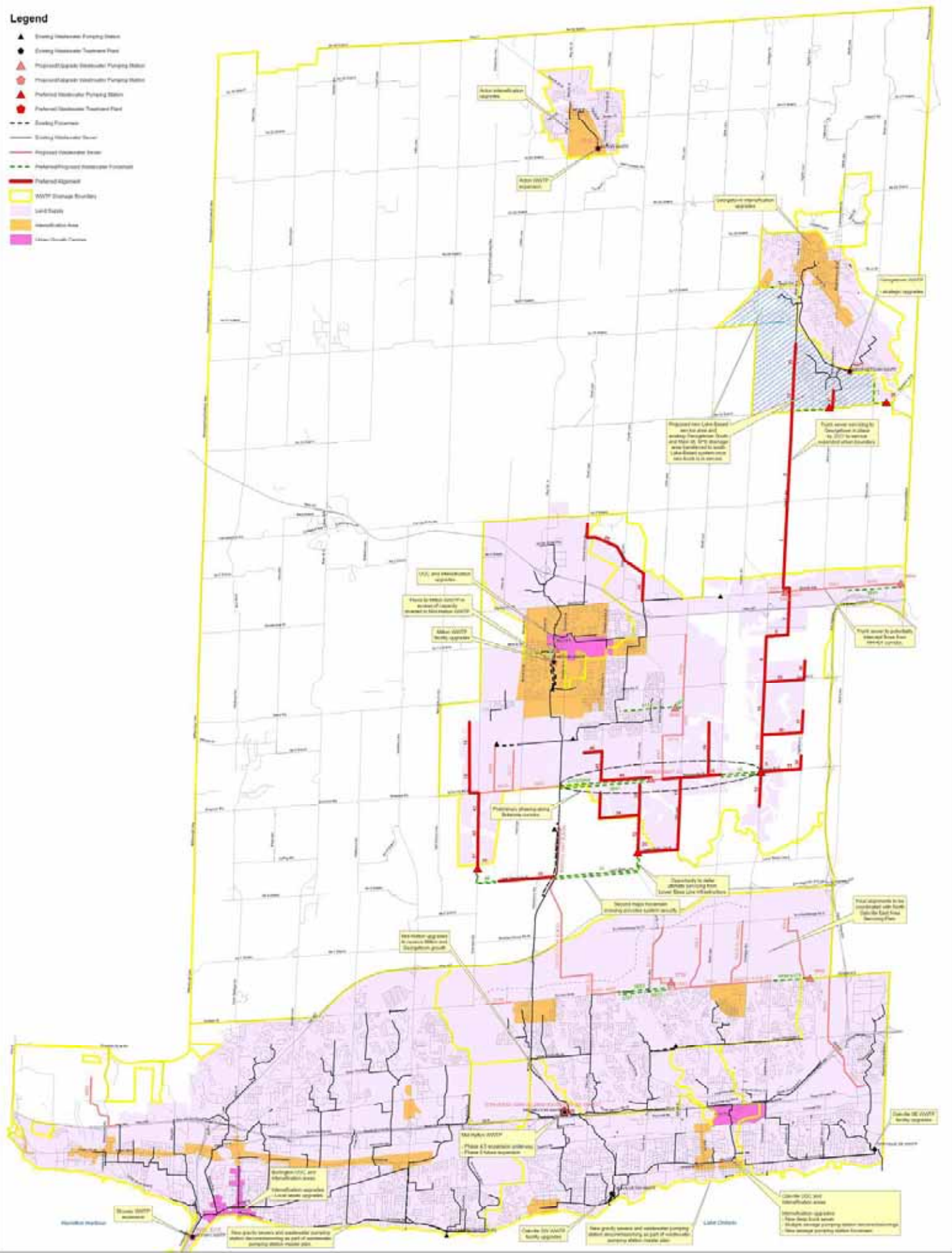


Preliminary Preferred Water Servicing Strategy



Legend

- ▲ Existing Wastewater Pumping Station
- Existing Wastewater Treatment Plant
- ▲ Proposed Upgrade Wastewater Pumping Station
- Proposed Upgrade Wastewater Treatment Plant
- ▲ Preferred Wastewater Pumping Station
- Preferred Wastewater Treatment Plant
- - - Existing Collector
- Existing Wastewater Sewer
- Proposed Wastewater Sewer
- - - Preferred/Proposed Wastewater Force Main
- █ Preferred Alignment
- ▭ WWTP Storage Boundary
- ▭ LID Basin
- ▭ Infiltration Area
- ▭ Urban Growth Pattern



Preliminary Preferred Wastewater Servicing Strategy

STUDY COMPLETION

STUDY COMPLETION

NOTICE OF STUDY COMPLETION

SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN CLASS ENVIRONMENTAL ASSESSMENT STUDY NOTICE OF COMPLETION

BACKGROUND

The Sustainable Halton Water and Wastewater Master Plan provides a Region-wide review, evaluation and development of water and wastewater servicing strategies for all urban service areas. The Master Plan has used updated planning population and employment estimates for the 2031 planning horizon based on the Best Planning Estimates as endorsed by Halton Regional Council. As shown in the map, the urban areas under study includes the South Halton systems in Burlington, Oakville, Milton, Halton Hills 401 Corridor; as well as the North Halton systems in Georgetown and Acton. This Master Plan builds on the previous work undertaken as part of the South Halton Master Plans and Updates, related studies for the North Halton systems and the Wastewater Pumping Station Capital Needs Assessment and Master Plan Study for Oakville and Burlington. This Master Plan is a critical component in the integrated planning process of the Sustainable Halton program and provides the framework and vision for the water and wastewater servicing needs within the urban areas in Halton Region to 2031.

PROBLEM STATEMENT

To identify preferred water and wastewater servicing strategies to meet the existing needs of Halton Region as well as Halton's growth needs to the year 2031.

PROCESS

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process.

Under the Sustainable Halton Water and Wastewater Master Plan process, servicing strategies were developed, then evaluated against natural, social and technical criteria, and then ultimately selected as the preferred solution to meet the system requirements and growth needs of Halton Region to year 2031.

Public Information Centres (PICs) were held in each local municipality to provide master plan information as well as obtain feedback. The first round of PIC's were held in May and June 2010 to introduce the study to the general public, outline the problem/opportunity statement and to provide background information, guiding policies, vision and servicing concepts. The preliminary preferred water and wastewater Master Plan servicing strategies were presented at a second round of PICs held in each local municipality in February and March 2011.

Following input received from PICs, review agencies and other key stakeholders consultation, the Class EA Study Report for the Water and Wastewater Master Plan recommends the preferred water and wastewater servicing strategies and identifies a list of projects.

Subject to comments received as a result of this notice, Halton Region intends to proceed with the implementation of the recommended Schedule A, A+ and B projects included in the Class EA Master Plan Study Report.

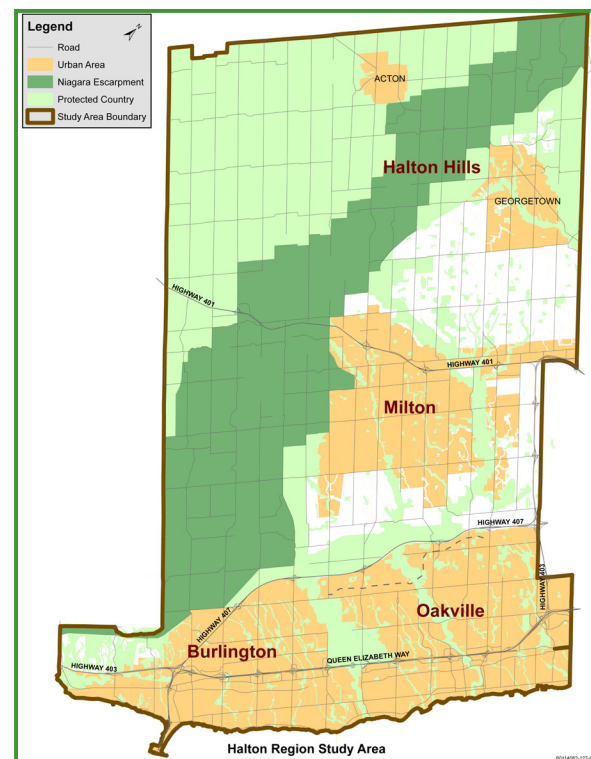
PUBLIC COMMENT INVITED

By this notice, the Class EA Study Report for the Sustainable Halton Master Plan which documents the planning process undertaken and conclusions reached will be on public record for 30 calendar days in accordance with the Municipal Class EA Document. The Public "Review Period" will begin on Thursday, October 13, 2011 and end on Monday, November 14, 2011

The Class EA Study Report for the Sustainable Halton Master Plan is available for public review at the following locations:

City of Burlington , 426 Brant Street, Clerk's Department M-F 8:45am – 4:30pm	Town of Halton Hills , 1 Halton Hills Drive, Georgetown, Clerk's Department M-F 8:30am – 4:30pm
Town of Milton , 150 Mary Street, Clerk's Department M-F 8:30am – 4:30pm	Town of Oakville , 1225 Trafalgar Road, Clerk's Department M-F 8:30am – 4:30pm
Region of Halton , 1151 Bronte Road, Citizen's Reference Library M-F 8:30am – 4:30pm	

The documents are also available electronically at: www.halton.ca/EAs.



If, after reading the Class EA Master Plan, you have any questions or concerns, please follow the subsequent procedure:

1. Contact any of the following individuals to discuss your questions or concerns:

David Simpson, P.Eng. Manager of Water Planning Halton Region Phone: 905-825-6000 Ext. 7601 Fax: 905-825-8822 E-mail: david.simpson@halton.ca	John Duong, P.Eng. Manager of Wastewater Planning Halton Region Phone: 905-825-6000 Ext. 7961 Fax: 905-825-8822 E-mail: john.duong@halton.ca	Chris Hamel, P.Eng. Project Manager AECOM Phone: 905-747-7562 Fax: 905-886-9494 E-mail: chris.hamel@aecom.com
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2. Arrange a meeting with the above if you have significant concerns that may require more detailed explanation.

3. If major concerns are raised, the Region will attempt to negotiate a resolution of the issues. A mutually acceptable time period for this negotiation will be set. If the issues remain unresolved, you have the option to request the Minister of the Environment, by order, to require the Region to comply with Part II of the Environmental Assessment Act before proceeding with a Schedule B project. This is called a Part II Order ("bump up"). Part II Orders cannot be submitted in respect of the Master Plan itself, but must be made in respect to individual Schedule B projects listed in this Notice. The Minister may make one of the following decisions:

- Deny the request
- Refer the matter to mediation
- Require the Region to comply with Part II of the Environmental Assessment Act by undertaking one of the following:
 - Submitting the Class EA Master Plan for government review and approval
 - Completing an Individual Environmental Assessment for government review and approval
 - Preparing Terms of Reference governing the preparation of an individual Environmental Assessment.

Requests for a Part II Order must be submitted, in writing, to the Minister of the Environment within the **October 13, 2011 to November 14, 2011** review period:

Minister of Environment

Environmental Assessment and Approvals Branch
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

A copy of the Part II Order must also be sent to Halton Region, to the attention of the Project Managers (address above).

Information will be collected in accordance with the **Freedom of Information and Protection of Privacy Act**. With the exception of personal information, all comments will become part of the public record.

This notice issued October 13 / 14 and October 20 / 21, 2011.

SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN UPDATE CLASS ENVIRONMENTAL ASSESSMENT STUDY NOTICE OF COMPLETION - continued

This Notice of Completion is issued with respect to the recommended Schedule A, A+, and B Master Plan Projects. The list of Schedule A and A+ Master Plan projects can be accessed electronically at the study web page previously noted. The Schedule B and C Master Plan projects and their respective identification numbers are noted below. To receive a copy of the list of Schedule A, A+, B and C projects, please contact any of the project managers or review the Class EA Study Report at the location previously noted.

SCHEDULE B - ACTIVITIES SUBJECT TO THE SCREENING PROCESS

Burlington	
6367	120 ML/d Burloak Water Pumping Station Construction, Phase 1, 50 MLD (Zone B2)
6601	7.8 ML/d Expansion at Beaufort Water Pumping Station (new site) (Zone B5)
6665	400 mm WM between Tyandaga Reservoir and Beaufort Reservoir (Zone B4)
6670	2.5 ML Water storage Expansion at Beaufort Reservoir (new site) (Zone B4)
6701	Kitchen Zone O3 Water Pumping Station Expansion by 80 ML/d
6863	Waterdown Road Water Pumping Station Expansion (Zones B2, B3A & B5A)
Halton Hills	
6572	1050 mm WWM on Steeles Ave from 8th Line to Crossing Easement
5061	30 ML Water Reservoir, near Trafalgar Road and No.5 Sideroad (Zone M4)
6570	24 MLD WWPS at 10 Side Rd/9th Line (275 L/s)
6589	3 ML/d WWPS on 10th Side Rd in Norval (35 L/s)
6606	750 mm WM on Trafalgar from the new Zone 4 Reservoir to approximately 1,650 m north (Zone G6L)
6607	750 mm WM on Trafalgar Rd from 1,650 m north of Zone 4 Reservoir to No 10 Sideroad (Zone G6L)
6608	750 mm WM on Trafalgar from 15th Sideroad to 22nd Sideroad Lake Based Reservoir (Zone G6L)
6614	600 mm WM on Adamson St from 10th Sideroad to Guelph St and on Guelph St from Adamson St to 10th Sideroad (Zone G6L)
6693	20 ML/d Water pumping station at Zone 4 Reservoir (Zone G6L)
6694	10 ML Water Storage Reservoir at 22nd Sideroad (Zone G6L)
6696	20 ML/d Water pumping station at Zone M4L Reservoir (Zone M5L)
Milton	
6555	17 ML/d WWPS on Tremaine Rd (200 L/s)
6571	104 ML/d WWPS on Trafalgar Rd/ Britannia Rd (1200 L/s)
6573	1050 mm WWM 401 Crossing from Steeles Ave to Auburn Rd
6574	1050 mm WWM on Auburn Rd from Hwy 401 crossing easement to Trafalgar Rd
6584	156 ML/d WWPS at Lower Base Line and 4th Line (1805 L/s)
6640	600 mm WM on Trafalgar Rd from Zone 4 Reservoir to 600 mm Zone M5L WM on Steeles Avenue (ID 3844) (Zone M5L)
6688	400 mm WM on Trafalgar Rd from Steeles Avenue to Hwy 401 (Zone M5L)
6689	400 mm WM on Trafalgar Rd Hwy 401 Crossing (Zone M5L)
6690	400 mm WM on Trafalgar Rd from Hwy 401 to Main St Extension (Zone M5L)
Oakville	
6661	900 mm WM Second Feedermain to Davis Road Booster Pumping Station (Zone O1)
6663	400 mm WM from 9th Line on easement to Bristol Circle (Zone O3)
6541	Deep Trunk Sewer on Rebecca St and Lakeshore Rd W from Wilson St to Oakville SW WWTP
Region	
6686	Bulk Water Stations on New Sites

SCHEDULE C - ACTIVITIES SUBJECT TO ADDITIONAL STUDY THROUGH PHASES 3 & 4 OF THE MUNICIPAL CLASS EA PROCESS AND ARE NOT SUBJECT TO THIS NOTICE OF COMPLETION

Notification will be issued when these projects proceed to Phases 3 & 4 of the Municipal Class EA Process

Halton Hills	
5717	Prospect Park WPP Expansion from 2.3 to 3.5 ML/d (Zone A9G)
6437	Acton Well Field Development and Treatment (Zone A9G)
6598	300 mm WM from New Well to Reg Rd 25 (Zone A9G)
6677	Acton Water Artificial Recharge Capital Works
6679	Georgetown Water Artificial Recharge Capital Works
6695	Centralized Water Treatment Plant at 3rd line Reservoir (Zone A9G)
Milton	
6585	Twinned 900 mm WWFM from Lower Base Line to RR 25
Oakville	
6588	Mid-Halton WWTP Expansion from 125 ML/d to 175 ML/d
6681	Oakville WPP Intake Pipe Extension
6684	Oakville WPP Expansion from 109 to 130 ML/d
6700	Burloak WPP Expansion from 165 ML/d to 220 ML/d

**WM=Watermain WPP=Water Purification Plant WWM=Wastewatermain
WWFM=Wastewater Forcemain WWPS=Wastewater Pumping Station
WWTP=Wastewater Treatment Plant MLD=mega litres per day
ML=mega litres mm-millimetres m=meters**

STUDY COMPLETION

RESPONSE LETTERS



Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1

October 7, 2011

Dear Resident/Business Owner,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Halton Region has completed the Water and Wastewater Master Plan. This final Report recommends a preferred long term servicing strategy for all municipal water and wastewater systems within the urban boundary of Halton, integrating existing and future servicing needs to the year 2031.

As a potential stakeholder in the study, we are writing to inform you that the preferred servicing strategy has recommended new water or wastewater infrastructure adjacent to or on a portion of your property. As such, we would like to discuss specific infrastructure property requirements with you in more detail. The proposed water and wastewater projects are noted in the Master Plan Report which is available for your review at any of the five locations identified in the enclosed Notice of Completion or electronically at:

www.halton.ca/planning_sustainability/environmental_assessments__eas_/

Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,

Halton Region

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

Chris Hamel, P.Eng.
Project Manager

encl. Notice of Completion

The Regional Municipality of Halton

STUDY COMPLETION

COMMENTS / RESPONSE MATRIX

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Resident						Reply Form	- Interested in providing comments, would like to remain on contact list	April 19, 2010	- Added to mailing list June 16, 2010 - Sent Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Suggestion that option 3A should consider a Georgetown only feed along Boivert (Hwy 7) fed by new storage tanks on Mississauga Rd. - Enquiry about Halton and Peel agreements	April 19, 2010	- Added to mailing list July 20, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Expressed disappointment at the PIC boards statements on the subject of Lindsay Court Well - The same standpoint on the wells was taken by the Region/Gartner-Lee two years ago	April 20, 2010	- Already on contact list - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Walter H. Watt	Property Administrator	Trans Northern Pipelines Inc.	45 Vogel Rd, Suite 310	Richmond Hill, ON	L4B 3P6	Reply Form	- TNPI is interested in the extent of proposed water mains or sewer lines will interact with existing TNPI facilities in southern Oakville and Burlington - Crossings would be subject to National Energy Board Act and pipeline crossing regulations	May 12, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Nathan Stewart	Transportation Technologist	Halton Region Cycling Committee	1151 Bronte Road	Oakville, ON	L6M 3L1	Reply Form	- Please remove from mailing list	May 13, 2010	- Removed from mailing list June 20, 2010
Diana Beaulne	Right of Way Approval Technician	Enbridge Gas Distribution Planning	500 Consumers Rd, 4th Floor	North York ON	M2J 1P8	Email	- Keep updated with project - During engineering design send copies of plans per normal procedure	May 14, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Dan Steele	Director of Engineering	Oakville Hydro	P.O. Box 1900, 861 Redwood Square	Oakville, ON	L6J 5E9	Reply Form	- Agency is interested in providing input into the study	May 14, 2010	- Already on mailing list - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Cathy Roberston	Director of Roads & Parks Maintenance,		PO Box S013	Burlington, ON	L7R 3Z6	Reply Form	- Please advise if there are any technical agencies meetings or if the PICs are meant to be the contact points for local municipal stakeholders	May 17, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2
Jackie Van De Valk	Rural Planner	Ontario Ministry of Agriculture, Rural Affairs	6484 Wellington Rd, Unit 10	Elora West, ON	NOB 1S0	Reply Form	- Agency is interested in providing input into the study	May 17, 2010	- Added to mailing list July 20, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
John Boich		Rambo Creek Ratepayers Association	2085 Caroline St.	Burlington, ON	L7R 1L6	Reply Form	- Agency is not interested in providing input regarding the study	May 20, 2010	- Removed from mailing list June 20, 2010
Jeff Booker	Manager, Highway Engineering	407 ETR	6300 Steeles Avenue West	Woodbridge, ON	L4H 1J1	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list July 20, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Don Boswell	Senior Claims Analyst	Indian & Northern Affairs	10 Wellington Street	Gatineau, QC	K1A 0H4	Reply Form	- No facilities in Halton Region - Agency is not interested in providing input regarding the study - Remove from contact list	May 20, 2010	- Removed from contact list June 1, 2010
Renee Brown	Council and Committee Services Coordinator (TEAC)	Town of Halton Hills	1 Halton Hills Drive	Halton Hills, ON	L7G 5G2	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list July 20, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Anita Fabac	Sr. Policy Analyst	Region of Halton, Long Range Planning	1151 Bronte Road	Oakville, ON	L6M 3L1	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list July 20, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
John Hall	HHRAP Co-ordinator	Canada Centre for Inland Waters	P.O. Box 5050	Burlington, ON	L7R 4A6	Reply Form	- Interested in the Skyway WWTP	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2
Business Owner						Letter	- Enquiring in to personal incorporation into the municipal water system due to belief that existing well system is contaminated - Received confirmation from Region of Halton that property will be within the new Milton 2031 boundary	May 20, 2010	- Added to mailing list July 16, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Stephanie Jarvis	Environmental Planner	Town of Milton	150 Mary Street	Milton, ON	L9T 6Z5	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Christine Lacombe	TEAC Chair Person	Town of Halton Hills	29 Grey Owl Run	Georgetown, ON	L7G 5Z8	Reply Form	- Agency is interested in providing input into the study - Add Renee Brown to the mailing list	May 20, 2010	- Renee Brown added to mailing list - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Julie Anne Lamberts	Water Resources Technician and Project Coordinator	Credit Valley Conservation	1255 Old Derry Rd	Mississauga, ON	L5N 6R4	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Jennifer Lawrence	Manager, Environmental Planning	Conservation Halton	2596 Britannia Rd West	Milton, ON	L9T 2X7	Reply Form	- Agency is interested in providing input into the study - Particular areas of interest include; source protection, water quality and quantity, river/shoreline impacts, fish habitat impacts	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2 - Pre-filing consultation - Sent Notice of Completion, October 13/14, 2011
Liam Marray	Sr. Planner/Ecologist	Credit Valley Conservation	1255 Old Derry Rd	Mississauga, ON	L5N 6R4	Reply Form	- Agency is interested in providing input into the study - Acton and Georgetown – potential impacts to watercourses and other natural features, assimilative capacity etc.	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2 - Pre-filing consultation - Sent Notice of Completion
Ann Newman	Damage Prevention Team Lead	Enbridge Pipelines Inc.	801 Upper Canada Dr	Sarnia, ON	N7W1A3	Reply Form	- Agency is not interested in providing input regarding the study but would like to be kept informed - Enbridge Pipelines Inc. Owns and operated high pressure petroleum Pipelines within the study area and new infrastructure may impact the pipelines/ROW	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2
Shelley Partridge/Margaret Smith	Sr. Planner, Development Project Manager	Region of Halton	1151 Bronte Rd.	Oakville, ON	L6M 3L1	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list July 20, 2010 - Sent invitation to PIC #2
Dave Pitablo		Paletta International Corporation	4480 Paletta Court	Burlington, ON	L7L 5R2	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list July 20, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Myron Pestaluky	President	Delta Urban Inc.	7501 Keele St, Suite 505	Vaughan, ON	L4K 1Y2	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Chris Povell		Sr. Consultant Inc.	2290 Queensway Drive	Burlington, ON	l7R 3T2	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Domenico Renzella	Manager of Planning	Halton District School Board	PO Box 5005 STN LCD 1	Burlington, ON	L7R 3Z2	Reply Form	- Agency is not interested in providing input regarding the study but would like to be kept informed	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2
Morley Richardson	President	208222 Ontario Ltd & 368785 Ontario Ltd.	346 Bishop Crt	Milton, ON	L9T 3N1	Reply Form	- Agency is interested in providing input into the study - Interested in information regarding the South East Corner Regional Road #25S & Derry Rd, Milton	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Lori Ritter	Lands Resource Worker	Hiawatha First Nation	123 Paudash Street RR#2	Keene, ON	K0L 260	Reply Form	- interested in any archaeological finds or environmental concerns	May 20, 2010	- Added to mailing list July 20, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Ric Robertshaw	Director of Wastewater	Region of Peel	10 Peel Centre Drive	Brampton, ON	L6T 4B9	Reply Form	- Agency is interested in providing input into the study - Interested in Water and Wastewater	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Jason Sheldon	V.P Land Development	The Remington Group Inc	7501 Keele Street, Suite 100	Vaughan, ON	L4K 1Y2	Email & Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2
Paul Smeltzer	Principal Consultant	AMEC Earth & Environmental	3215 North Service Road	Burlington, ON	L7N 3G2	Reply Form	- Agency is interested in providing input into the study	May 20, 2010	- Added to mailing list July 20, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Carlo Stefanutti	Vicw President	Fieldgate Developments	5400 Yonge Street, 5th Floor	Toronto, ON	MZN 5T5	Reply Form	- Interested in all aspects of the Master Plan	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Paul Sytsma	Senior Partner	Urban Tech Consulting	25 Royal Crest Court, Ste 201	Markham, ON	L3R 9X4	Reply Form	- Agency is interested in providing input into the study - Water and Lands that drain into Grindstone Crescent	May 20, 2010	- Already on mailing list - Sent invitation to PIC #2 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Tys Theysmeyer	Head of Conservation	Royal Botanical Gardens	680 Plains Road West	Burlington, ON	L7T 4H4	Reply Form	- Agency is interested in providing input into the study - Water and Lands that drain into Grindstone Crescent	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Jim Vanderkooy	Principal	King's Christian Collegiate	528 Burnhamthorpe Road West	Oakville, ON	L6M 4K6	Reply Form	- Interested in when wastewater infrastructure will be provided to their site	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Tim Warner	Vice President	Mattamy Development Corporation	2360 Bristol Circle	Oakville, ON	L6H 6M5	Reply Form	- No comments	May 20, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Lisa Myslicki	Environmental Coordinator		1 Dundas Street West, Suite 2000	Toronto, ON	M5G 2L5	Letter	- Potential negative impacts to Ontario Realty Corporation - Heritage Management process and Environmental Assessment (EA) Process - Potential triggers related to MEI's Class EA	May 21, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Greg Sage	EMS Chief	Halton Region EMS	1179 Bronte Rd	Oakville, ON	L6M 4G3	Reply Form	- Agency is not interested in providing input regarding the study but would like to be kept informed.	May 21, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Sarah Horwath, On behalf of Scott Bland	Assessment & Planning Clerk	Halton Catholic District School Board	802 Drury Lane	Burlington, ON	L7R 2Y2	Email & Reply Form	- No comments	May 25, 2010	- Added to mailing list - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Highlighted the need for good public relations/awareness	May 26, 2010	- Added to mailing list July 16, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Resident						Reply Form	- Interested in alternatives to the 'big pipe' solution for Halton Hills - Requested a hard copy	May 26, 2010	- Already on mailing list - Hard copy sent as requested - Region sent personalized response letter dated Oct. 22, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2
Daniel Delaquis	Environmental Resource Planner & EA Coordinator	(Air, Pesticides and Environmental Planning)	5775 Yonge Street, 9th Floor	Toronto, ON	M2M 4J1	Letter	- Submittal of concerns, where the main concerns Expressed were: Ecosystem Protection and restoration, surface water, groundwater, air quality, servicing and facilities, contaminated soils, mitigation and monitoring, planning and policy, Class EA process, First Nations Consultation	May 27, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Josse Beauregard	Litigation Team Leader	Indian & Northern Affairs	25 Eddy Street	Gatineau, QC	K1A 0H4	Letter	- Ligation Letter	May 30, 2010	- Added to mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Rob Witham	Senior Project Engineer	MMM Group	100 Commerce Valley Drive West	Markham, ON	L3T 7P8	Reply Form	- Tracking/reviewing on behalf of client – Metro Ontario	May 31, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Chief Sharon Stinson Henry	Chief	Council, Rama First Nation	5884, Rama Road, Suite 200	Rama, ON	L0K 1T0	Letter	- PIC information was forwarded to Karry Sandy-McKenzie, Barrister & Solicitor Coordinator for Williams Treaties First Nations	June 2, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Douglas McGill	President	McGill Development Services Ltd.	311 Byron Street North	Whitby, ON	L1N 4N4	Email	- Request for PIC presentation	June 2, 2010	- Formal response given stating PIC board availability online - Sent invitation to PIC #2 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Ron Baldessarra		Randvest Inc.	5285 Solar Drive	Mississauga, ON	L4W 5B8	Comment sheet & Email	- Land owner stating concerns about the potential application of expensive servicing alternatives in external areas i.e. outside north Oakville	June 3, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Ruth Thoen		Redbourne Realty Advisors inc.	5500 North Service Road, Suite 306	Burlington, ON	L7L 6W6	Email	-Change of company name and address	June 3, 2010	- Address change July 19, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
John Taglieri		Lormel Homes	30 Pennsylvania Ave. Unit 16	Concord, ON	L4K 4A5	Email	- Request for PIC presentation	June 4, 2010	- Formal response given stating PIC board availability online - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
James Etienne	Senior Water Resources Eng.	Grand River Conservation Authority	400 Clyde Road	Cambridge, ON	N1R 5W6	Letter & Reply Form	- Stated continued interest in participation of this study - Particular interest shown in the water budget issues at the boundary of Grand, Credit and Halton Watersheds - Ruling out of concept 5 where there is an interconnection with Wellington County. It is felt that if there is an intra basin transfer is required from the Grand River water shed to the Credit River Watershed would result in 'short circuiting' the flow to Lake Ontario - Inflow/infiltration (I/I) reductions have been outlined as a solution to reduce the Acton wastewater treatment capacity. If the infiltration portions of I/I have been identified as a significant quantity affecting the source of the Prospect Well, then I/I reductions should be considered as a condition of expanding the well's PTTW to ensure the ongoing sustainability of the water source.	June 4, 2010	- Added to mailing list July 20, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Resident						Letter	- Awaiting a copy of investigative study regarding an aquifer to be located south of 15 th Side Road between Trafalgar and the Eighth Line	June 7, 2010	- Added to contact list June 20, 2010 - Copy of PIC report sent out - Region sent out personalized response letter dated Jun 29, 2010 - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Clark Somerville	Councillor					Email	- Requesting a copy of the full PIC presentation	June 7, 2010	- Region of Halton replied with a link to the presentation via the study website - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Diane Bloomfield	Project Manager	Halton-Hamilton Source Protection Region	4052 Milborough Line, RR#2	Campbellville, ON	L0P 1B0	Reply Form	- Comments to be provided through Conservation Halton	June 8, 2010	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Resident						Email	- Enquiry about feedback deadline dates	June 8, 2010	- Halton sent a reply welcoming PIC feedback within the June 16th cut off - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Douglas McGill	President	McGill Development Services Ltd.	311 Byron Street North	Whitby, ON	L1N 4N4	Reply Form	- Recommends that the Region of Halton maximizes use and future water and wastewater infrastructure alignment, sizing, and timing of delivery to ensure efficient and cost effective delivery of water and wastewater infrastructure	June 16, 2010	- Already on mailing list (previous comment sent Jun 2, 2010) - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Paul Brown	C.E.T. Director, Land Development	MTE Consultants Inc.	3115 Harvester Road, Suite 200	Burlington, ON	L7N 3N8	Email	- Response on behalf of client: Orianna Glen Home Corp. Orianna owns land located south of Orianna Road between Fourth Line and Fifth Line in the Town of Milton - States that lands have been incorporated as Residential and Mixed Use Area within the Sustainable Preferred Land Use Plan (ROPA 38) which is currently awaiting Provincial Consent. Lands located immediately North, Boyne Survey Secondary Plan – Town of Milton Official Plan Amendment No.30 was approved by Town Council on June 14th, 2010 - As noted the lands are incorporated in the Preferred Land Use Plan and are immediately coincident to the existing boundary, MTE believes that the subject lands should be part of the next Secondary Plan Area in the Town of Milton	June 17, 2010	- Already on mailing list-Sent response letter acknowledging comments, with invitation to PIC #2 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	- Concerned about the water quality of Fairy Lake and its effect on residents health	June 28, 2010	- Halton sent reply with a link to Water Quality Reports - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Gordon Patterson	Principal Delta Urban Inc.	The Sernas Group on behalf of	Southwest Georgetown Landowners Group (SWGLOG)			Letter	- Written on behalf of SWGLOG who own 1000 hectares of land in the Regions identified expansion area bounded by Trafalgar Road, 15 th Sideroad, Main Street/8 th Line and 10 th Sideroad -General Comments: Sernas highlight financial and phasing impacts as the most important factors. Highlighted a need for a 'critical mass' of development to support the infrastructure and a potential need for temporary works. - Request that Best Planning Estimates (BPE) will be released as soon as possible - Stated support for W5A 'Connect to the Lake based system in South Halton - Shows encouragement for the development of both groundwater and lake based initiatives concurrently. - Georgetown WW Servicing Alternatives: Supportive of the WW3B "Trunk Sewer Diversion – Send flows to the South Halton WW System". However Sernas do show concern regarding the South Lake Wastewater concepts, pointing in particular towards the gravity flow concepts running southward from Georgetown from the 401 down Trafalgar through the Milton East expansion area. Given the large amount of development land available in Milton this may have the knock on effect of again delaying development in Georgetown again. - Timing: Request that the service options for Georgetown as soon as possible	June 29, 2010	- Added to mailing list July 20, 2010 - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	-Question regarding the extent of water withdrawn from the Lake Ontario and its natural replenishment	November 4, 2010	- Halton sent reply with links for further details - Sent invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
David Scott		The Municipal Infrastructure Group	8800 Dufferin Street, Suite 200	Vaughan, ON	L4K 0C5	Email	- Following up to get brief update on the Master Plan status and next steps	January 18, 2011	- Region responded with the key actions and status of the Master Plan deliverables on Jan. 18, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Walter H. Watt	Property Administrator	Trans-Northern Pipelines Inc.	45 Vogell Road, Suite 310	Richmond Hill, ON	L4B 3P6	Email (Attached Letter)	- Confirms that Trans-Northern's pipelines cross study area from west to east within the City of Burlington and the Town of Oakville, south of QEW - Facilities must adhere to Pipeline Crossing Regulations and guidelines - Attached Pipeline Neighbours Organization information and pipeline facilities map	February 7, 2011	- Added to mailing list - Sent Notice of Completion, October 13/14, 2011
Patricia Coca	Distribution Engineer	Halton Hills Hydro Engineering Dept.		Acton, ON	L7J 2A9	Email	- Updating load forecast to ensure sufficient supply capacity and circuitry to where development is planned - Request for information regarding Halton Hills preliminary preferred alternatives - Add to mailing list	February 8, 2011	- Region of Halton replied on February 8, 2011 by forwarding preliminary presentation slides - Added to mailing list - Sent Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Junior Francis	Utilities Coordinator	CN Railway	4 Welding Way	Concord, ON	L4K 1B9	Email	- Keep CN informed of any work that may fall in right-of-way - Add to mailing list	February 8, 2011	- Added to mailing list, February 8, 2011 - Sent Notice of Completion, October 13/14, 2011
Cynthia Robinson	Environment and Education Manager	Ontario Stone, Sand and Gravel Association	5720 Timberlea Blvd, Unit 103	Mississauga, ON	L4W 4W2	Email	- Add to mailing list - Remove Jane White from mailing list	February 8, 2011	- Added to mailing list - Jane White removed from mailing list.
Michael Barton	Vice President	Landmart Homes	337 Parkridge Crescent	Oakville, ON	L6M 1A8	Email	- Keep informed throughout all phases of project - Add to mailing list	February 9, 2011	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent Notice of Completion, October 13/14, 2011
Lisa Myslicki	Environmental Coordinator	Ontario Realty Corporation	1 Dundas Street West, Suite 2000	Toronto, ON	M5G 2L5	Email (Attached Letter and map)	- Ontario Realty Corporation managed property is within the study area (attached small map) - Outlined potential negative impacts to the environment ORC tenants, land holdings, and cultural heritage features - Potential triggers related to the Ministry of Energy and Infrastructure's Class EA have been identified - Requested copy of draft EA report and review time (30 days) for comments prior to finalizing report, since project affects part of ORC managed property	February 11, 2011	- Added to mailing list - Sent Notice of Completion, October 13/14, 2011
Chief Sharon Stinson Henry		Council, Rama First Nation	5884, Rama Road, Suite 200	Rama, ON	L0K 1T0	Letter	- Acknowledges receipt of letter received February 7, 2011. - Copy of letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review - Direct all future correspondence and inquires to, Ms. Sandy-McKenzie	February 14, 2011	- Already on mailing list - Sent response letter acknowledging comments, with invitation to PIC #2 - Sent Notice of Completion, October 13/14, 2011
Dave Simpson	Communications Officer, Lands and Resources	Alderville First Nations	11696 Second Line, P.O. Box 46	Roseneath, ON	K0K 2X0	Email (Attached Letter)	- Keep informed throughout all phases of project - Add to mailing list	February 16, 2011	- Added to mailing list February 17, 2011 - Sent Notice of Completion, October 13/14, 2011
Ron Young		KRPAN Group	2500 Appleby Line , Suite 200	Burlington, ON	L7L 02A	Email & Comment Sheet	- Add to mailing list - Request for comment sheet - No comments submitted - Request to be added to mailing list	February 18, 2011	- Added to mailing list February 23, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Gerald Asa		The Effort Trust Company	242 Main Street East	Hamilton, ON	L8N 1H5	Email	- Owns the Market Place Plaza in Acton - Request for an executive summary pertaining to Acton	February 23, 2011	- Added to mailing list - Region of Halton replied with a website link to the presentation via the study website - Sent Notice of Completion, October 13/14, 2011
Matthew Ballaban		Gamsby and Mannerow Limited	650 Woodlawn Road West, Block C, Unit 2	Guelph, ON	N1K 1B8	Email	- Suggests considering making provisions to rechlorination facility at the proposed Zone 5 pumping station - If this is considered, chlorine boost would not be required at the Oakville WPP to accommodate potentially low chlorine considerations in the lake feed section of Georgetown	February 24, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Questionnaire	- Believes that key flaw in study is that area must grow as mandated by the province, hence all options are flawed in this context - Believes development community wants pipe to Georgetown to give them unlimited lake water to allow for more development - Opposes the use of lake water in Georgetown	February 24, 2011	- Added to mailing list - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Water conservation efforts should be employed to protect water resources - Conservation opportunities need to be identified - Suggests Region researches and promotes conservation Best Practices from other countries (Australia, California, etc.)	February 24, 2011	- Added to mailing list - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Add to mailing list - No comments submitted	February 24, 2011	- Added to mailing list - Sent Notice of Completion, October 13/14, 2011
Colin Best	Regional Councillor	Milton Council	150 Mary Street	Milton, ON	L9T 6Z5	Email	- Expressing the views of Milton residents in wanting to keep escarpment well based water - Share concerns about the deterioration of Walker's Line Well and the reduced capacity at the Kelso wells to serve the existing Milton urban area - Phasing out of Walker's Line well is logical - Requests switching the commercial triangle of Main St. E and Nipising Rd both sides from Thompson Rd to Ontario St. including the Milton Mall - Where possible, employment and industrial areas west side of Bronte St. from Derry Rd to Steeles Ave including Robertson-Whitehouse plant at 97 Bronte St. north and industrial areas along the north side of Steeles Ave - After all other options have been exhausted, residential areas on a neighbourhood at a time basis will be switched after all residents have been informed of the proposal - With the recommended commercial, industrial, employment and institutional switchovers to the lake based system, proposed residential switchovers are not expected for a while	February 25, 2011.	- Already on mailing list - Sent response letter, March 16, 2011 - Sent Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Jim Steeves		Milton Green, Citizens Group	288 Bousfield Crescent	Milton, ON	L9T 3G7	Email	<ul style="list-style-type: none"> - Appreciated the open conversations with staff and consultants at the PIC - Mentions that nothing had been posted in local papers about the PIC, and felt caught 'off guard' when informed - Requests additional information that will interest citizens about the project to post in the Milton Green blog - Intends to present a balanced forum for discussion for everyone and would like any other feedback, comments, and recommendations that may be of interest to the public - Those on well water feel it is better as it doesn't contain contaminants which could be coming from industries upstream from the Lake Ontario intakes - Current science indicates no difference between the two water sources, but long-term impacts are unknown - Would like clarification about MOE Permit To Take Water limitations and the possibility of more water available related to the Kelsco Well upgrades - Requests clarification whether industries NW South of the 401 take as much water as the town - Email correspondence between Jim and Halton Region, has been forwarded to Carol Gustafson from Milton Green as requested via telephone discussion 	February 25, 2011 March 2, 2011 March 4, 2011	<ul style="list-style-type: none"> - Already on mailing list - Region of Halton replied to emails on March 2, 2011 - Region of Halton replied to email on March 4, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Lisa Tallyn	Staff Writer	GT Independent Free Press	280 Guelph Street, Unit 29	Georgetown ON	L7G 4B1	Email	<ul style="list-style-type: none"> - Requests information for an article to be published in the GT Independent Free Press Newspaper Questions: <ul style="list-style-type: none"> - Cedervale and Lindsay Court well capacity increase - Lake based pipe installation timing, cost, route - Timing of complete switch to lake based servicing for Georgetown South and Stewarttown - Capacity of new pipe, and sizing for future development - Next step in the Master Plan process 	February 28, 2011.	<ul style="list-style-type: none"> - Added to mailing list, March 16, 2011 - Region of Halton replied to email on February 28, 2011 - Sent response letter, March 16, 2011 - Sent Notice of Completion, October 13/14, 2011
Ron Baldessara	Represents Randvest Inc.		5285 Solar Drive	Mississauga, ON	L4W 5B8	Comment Sheet with attached map	<ul style="list-style-type: none"> - Randvest Inc. land is located north of the 407, SW corner of Trafalgar Road and Lower Base Line - Servicing alternatives do not accommodate these lands, that will be developed in the future - Attached sketch showing possible services of Randvest Inc. lands and other lands north of the 407 using future services to be entailed in the North Oakville Secondary Plan 	March 1, 2011	<ul style="list-style-type: none"> - Already on mailing list - Sent Notice of Completion, October 13/14, 2011
Christina Commisso	Journalist	Milton Canadian Champion	555 Industrial Drive	Milton, ON	L9T 5E1	Email	<ul style="list-style-type: none"> - Submitted excerpts from the 'Ground to Lake Water' article for clarification, comments, changes 	March 2, 2011.	<ul style="list-style-type: none"> - Added to mailing list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent Notice of Completion, October 13/14, 2011
Karry Sandy-McKenzie	Barrister & Solicitor, Coordinator for Williams Treaties First Nations Primary Contact for: Chief Sharon Stinson Henry		8 Creswick Court	Barrie, ON	L4M 2J7	Letter	<ul style="list-style-type: none"> - Acknowledges receipt of letter received February 7, 2011 - Copy of letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review - Direct all future correspondence and inquiries to Ms. Sandy-McKenzie 	March 1, 2011	<ul style="list-style-type: none"> - Both already on mailing list - Noted Karry Sandy-McKenzie as the primary contact for future correspondence and inquiries - Sent Notice of Completion, October 13/14, 2011
Resident						Email	<ul style="list-style-type: none"> - Suggests the expansion of wells to keep groundwater source servicing - Feels privileged to have had ground water source - Opposes the switch to lake based water as homes would need water-purification filters to eliminate unpleasant taste, bottled water, and continuous water treatment needed for an inevitable increase in lake pollution over time 	March 3, 2011.	<ul style="list-style-type: none"> - Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Richard Laughton	President	LMC CENSOL Group		Milton, ON	L9T 4N8	Email	<ul style="list-style-type: none"> - Add to mailing list - Requests documentation of proposed changes to the use of Kelso or Walker's Line Wells for old Milton 	March 3, 2011	<ul style="list-style-type: none"> - Region of Halton replied with a website link to the Master Plan Study - Added to mailing list, March 7, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	<ul style="list-style-type: none"> - Opposes switch to lake based system - Upset over proposed switch to lake based water for the Timberlea area to account for intensification in Milton downtown core - Concerned about impacts of redirecting sewage from the Timberlea neighbourhood to the Mid-Halton plant - Opposed to fluoride in water supply due to health risks - What are the potential impacts of the re-direction of sewage? - Why has the Timberlea area been chosen to be connected to the 'big pipe' as opposed to the proposed growth area? - Is it necessary to transition Timberlea to lake based in 5 years, when development approvals for intensification within the core will be time consuming and difficult to obtain? - Will conservation efforts eliminate the need for a lake based system for Timberlea? 	March 3, 2011.	<ul style="list-style-type: none"> - Added to mailing list, March 9, 2011 - Colin Best (Councillor Milton) replied to email on March 10, 2011. - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	<ul style="list-style-type: none"> - In favour of lake water for Timberlea - Had to deal with water softener for almost 30 years with the current system 	March 3, 2011	<ul style="list-style-type: none"> - Added to mailing list, March 7, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	<ul style="list-style-type: none"> - Residents are pleased that fluoride isn't added to their water supply - Explains potential health risks when getting lake based water (i.e.. Dental fluorosis, lower thyroid) 	March 4, 2011.	<ul style="list-style-type: none"> - Added to contact list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident							<ul style="list-style-type: none"> - Provided comments in response to the article printed on March 3rd's Canadian Champion 	March 5, 2011	<ul style="list-style-type: none"> - Added to contact list - Sent specific response letter and Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Resident						Email	- Opposed to changing water source from Kelso wells to Lake Ontario system - Keep informed throughout all phases of project	March 6, 2011.	- Added to mailing list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	- Moved to Milton for the water source, enjoys Niagara escarpment aquifer water supply and disappointed to no longer have access to it - Initially assured that the existing residents would retain the escarpment sourced water when the 'Big Pipe' alternative was approved - Requests that other alternatives are considered	March 6, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email Comment Sheet	- Informed that Master Plan information has already been loaded on to the Halton website, but is unable to find the webpage for the Halton Master Plan and PIC 2 - Requests website link to information - Would have liked ad to state 'drop-in' format of PIC - Acronym definitions should have been available for lay persons - Directions to where to find presentation on the web should have been readily available - What is the breakdown figures behind Halton Regions 5% reduction in water use planned?	March 6, 2011. March 9, 2011.	- Region of Halton replied with a website link to the study website - Added to mailing list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent Notice of Completion, October 13/14, 2011
Resident						Email	- Lives in Milton because of the water quality, without the use of chemicals and chlorine for treatment - Feels that switching to lake water would be detrimental to Dorset and Timberlea as well as other areas, would take away from the small town feel that Milton once had - Escarpment water tastes different than lake water - Opposed to switch to lake water due to the polluted state of lake water and the chemicals added during the treatment process	March 7, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	- Concerned about lake water quality due to pollution, chemicals, etc. - Opposes the switch to lake based servicing	March 7, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	- Change is inevitable in Milton due to its location in the provincial growth planning - Suggests seeking costing alternatives to switching over the industrial and commercial areas first - Switching over long-term industrial residents would help to alleviate any residential switchover for the near future, - That would be the preferred option to switching over drinking water from long established Milton residents	March 7, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent Notice of Completion, October 13/14, 2011
Resident						Email	- Disappointed to read in the Canadian Champion (Thursday March 3, 2011) that older parts of Milton would be switched to a lake based system - Moved to Milton for the small town experience and was ensured by the Town that further development would occur around their property - Initially promised by the Town etc. that the big pipe' water would stay on the perimeter of old areas, and would just service new houses - Disappointed to hear that the initial promise has been broken - Ultimately, opposed to the use of lake water for old Milton, including the Timberlea area	March 7, 2011.	- Added to contact list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	- Opposed to switching to lake water for Timberlea area - Proud to live in 'Old Milton' and would like things to remain the same - Unfair to give up ground water based on where in Milton people choose to live	March 8, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
David Schaeffer		David Schaeffer Engineering Ltd.	600 Alden Road, Suite 500	Markham, ON	L3R 0E7	Email	- Requested profile drawings for the sanitary sewers - Would like the opportunity to submit comments following engineers' technical meeting	March 8, 2011	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Should shutdown Milton's in town sewage treatment plant	March 9, 2011.	- Added to mailing list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Comment Sheet	- Owners of the property listed post 2021-2031 - Requests that the property be developed now so it may be serviced - Very concerned that servicing is shown post 2021	March 9, 2011.	- Added to mailing list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Comment Sheet & Questionnaire	- Would like to keep the existing well water system - Supports preservation efforts being made for escarpment lands East of Bronte and North of Main St. - Suggests wastewater flows from Milton STP to be redirected due to overflows in the summer - Pleased by staffs efforts to single out questions and inquires from Residents - At what point are the proposed employment lands considered to be too far and too much?	March 9, 2011.	- Added to mailing list, March 9, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
David Leighton	Senior Partner	Urbantech Consulting	25 Royal Crest Court, Ste 201	Markham, ON	L3R 9X4	Letter	- On behalf of Milton Phase 3 Landowners Group (within Milton's Boyne Survey Secondary Plan Area) - Request more detail on the cost estimates prepared for the water and wastewater servicing strategies - Requested further discussion on the location of the wastewater pumping station, allowable sewer depths and forcemain locations - Requested further discussion regarding maximizing the capacity of existing water and wastewater infrastructure - Appreciated invitation to technical meeting on March 31, 2011	March 9, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Resident						Email	- Opposed to Timberlea area changing to lake based water - According to the 2010 Annual Water Quality Report, the area only lists chlorine and potassium permanganate for the treatment process, while other lake based water areas require 9 other chemicals for the purification process (i.e.. Burlington, Burloak, Oakville and South Halton)	March 10, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Paul Smeltzer	Principal Consultant	AMEC Earth & Environmental	3215 North Service Road	Burlington, ON	L7N 3G2	Email	- Requested any new information regarding the Boyne and Derry Green communities (already checked website)	March 10, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
David Scott	Founding Partner	The Municipal Infrastructure Group	8800 Dufferin Street, Suite 200	Vaughan, ON	L4K 0C5	Letter	- On behalf of Fieldgate Developments, who own lands within the Boyne Survey Community, north of Britannia Road and east of 16 Mile Creek - Concerned with location of the Britannia Rd WWPS, as shown in Preliminary Preferred Strategy as it will result in unnecessary depth of local sewers - Support the location of the Britannia Rd WWPS as shown just east of 16 Mile Creek in the South Halton Water and Wastewater Master Plan Update - Would like to work with Region and AECOM to refine the preferred strategy for the SH lands	March 10, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
David Scott	Founding Partner	The Municipal Infrastructure Group	8800 Dufferin Street, Suite 200	Vaughan, ON	L4K 0C5	Letter	- On behalf of Britannia South Landowners Group - TMIG carried out analysis and determined that the Britannia North/South lands can be serviced by the Britannia Rd trunk sewer and WWPS without the need for further deepening to service the Britannia South lands - Believe that design of Britannia Rd SPS can accommodate flows from the entire SH lands, including Britannia South lands (thereby eliminating need for a WWPS at Lower Base Line and crossing of 16 Mile Creek, and making use of existing infrastructure being constructed for other proposed development areas - Will be providing detailed submission to expand on comments by March 25, 2011 - Appreciate invitation to attend technical meeting on March 31, 2011	March 10, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
York Gruehl		York Trafalgar Corporation	1039 Fourth Line	Milton, ON	L9T 6P9	Letter	- Writing on behalf of a host of developers with lands in Milton - Would like Master Plan strategy to build in flexibility, phasing and security features - Provided specific comments on display panels presented at PIC 2, including clarification of planning information, evaluation criteria etc.	March 11, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Michael Telawski	Vice-President, Land Development	M.A.M. Group Inc.	8600 Dufferin Street	Vaughan, ON	L4K 5P5	Letter	-Trinison Management Corp. was an active contributor throughout the ROPA 38 process - Have substantial landholdings throughout Halton, in particular, south of Britannia Rd between 5th Line and Thompson Rd (3rd Line) in Milton - MTE Consultants Inc. provided comments on PIC1 on their behalf - attached preliminary comments from their Consulting Engineers, for review and consideration - Recommend that Halton Region review existing infrastructure to maximize its use and refine future wastewater and water infrastructure alignment, sizing and timing of delivery to service ROPA 38 lands	March 11, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Mark Pavkovic	Manager	Georgetown Commons				Letter by Email	- Writing on behalf of South Georgetown Landowners Group (including of Lakeview Homes, National Homes, Tribute Communities, Townwood Homes, The Vogue Development Group, and others) - SGLG are located in Halton Hills south of 10th Sideroad, north of 5th Side Rd, east of Trafalgar Rd, and west of 9th Line. - Actively participated during the Sustainable Halton process - Agree with proposal to use a lake-based system to support future growth for both water and wastewater - Hope that final design of any infrastructure should take into account oversizing of infrastructure to service needs beyond 2031 - Requested list of schedules that apply to the various projects	March 11, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Business Owner						Comment Sheet & Questionnaire	- Suggests placing bulk water stations where they will be most useful - Consideration must be given to the timing of station relocations to avoid negative effects (i.e. wait times, delivery delays etc.) - Suggests stations for portable loading and non-portable loading - Milton locations seem to be planned for the future - Suggest the possibility of locating the bulk water station to Santa Maria in 2011 because of proximity to houses and new sports fields	March 11, 2011.	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Frank Varga			41 Clarinda Drive	North York, ON	M2K 2W4	Letter	- Own about 93 acres south of Derry Rd, west of 8th Line - Support the Preliminary Preferred Strategy, particularly the location of the WWPS near Britannia and Trafalgar Rd. - Suggest oversizing the pipe in anticipation of the Trafalgar Corridor, Steeles Corridor and Georgetown to minimize future DC charges - Suggest investing in Trafalgar/Hwy 401 & Hwy 407/Steeles Corridor	March 11, 2011	-Sent specific response letter and Notice of Completion, October 13/14, 2011
Blair Wolk	Director of Development	Orlando Corporation	6205 Airport Road	Mississauga, ON	L4V 1E3	Letter via Email	- Generally support the Region's Master Plan, but have concerns regarding future build-out of the program as it relates to accommodating growth within 2031 - Employment studies have been showing declining densities within the warehouse and distribution industry - believe employment lands along Trafalgar/Derry and HH corridors will be insufficient to accommodate the targets and requests Region to consider servicing beyond the lands currently designated through the conformity exercise (i.e. ROPA 38)	March 11, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Letter	- Long time resident of Milton opposed to transfer of groundwater areas to lake-based servicing - Referenced previous Regional study that looked at blending well and lake water - Concerned with high costs of replacing all infrastructure as part of switchover to lake-based water - Suggests that industrial areas of North Milton be switched over instead - Urges Region to consider alternatives that would keep residents in Old Milton on groundwater	March 11, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	- Was unaware of proposal to move Timberlea residents to lake based water, would have liked a notice by mail to alert residents - Opposed to move Timberlea neighbourhood to lake based system - Consider upgrades to Kelso supply to meet demands of the community it is currently servicing - industrial and institutional facilities should be considered first well before residential consumers - Would like lake based option to be removed from consideration - Keep informed throughout all phases of project	March 11, 2011.	- Added to mailing list, March 16, 2011 - Colin Best (Councillor Milton) replied to email on March 13, 2011 - Sent response letter, March 16, 2011 -Sent specific response letter and Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Resident						Comment Sheet	- No issues with the projected wells to be drilled North of Acton, both east and west - Concerns about drawing large volumes of water from Prospect Spring - Summer temperatures affect pollution level and algae growth - Decreased rainfall will cause diminished water levels, odour, water quality decreases, and fewer natural watering options for wildlife - Strongly oppose Prospect Well option is a 'preferred option'	March 11, 2011.	- Added to mailing list, March 16, 2011 - Sent response letter, March 16, 2011 - Sent specific response letter and Notice of Completion, October 13/14, 2011
Paul Brown	Director, Land Development	MTE Consultants Inc.	3115 Harvester Road, Suite 200	Burlington, ON	L7N 3N8	Letter by Email	- Writing on behalf of Trinison Management, who own lands south of Britannia Rd between 5th Line and Thompson Rd (3rd Line) in Milton - Requested further discussion regarding wastewater servicing preliminary phasing along Britannia corridor to clarify implications - Requested confirmation if design of Britannia Rd WWPS will provide enhanced system security through provision of emergency storage and standby power - Concerned regarding finalization of the Master Plan in advance of the approved ROPA 38, 39 and the BPEs - Appreciated invitation to technical meeting on March 31, 2011	March 15, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Jennifer Lawrence	Manager, Environmental Planning	Conservation Halton	2596 Britannia Rd West	Burlington, ON	L7P 0G3	Email	- Requested figures from PIC 2 - For the preliminary recommended solution, has Region looked at impacts to the natural environment, including natural hazards? - Are there any additional new crossings being proposed for Bronte, 16 Mile and 14 Mile Creek - Re: Wastewater servicing for Georgetown, what is being considered in the vicinity of Hwy 401 and 16 Mile Creek - Where is new Trafalgar/Britannia Rd WWPS being considered? - What is involved in the optimization of the WPP plants in Oakville? - Requested further detail regarding the proposed groundwater well expansion and impacts associated with nearby wetlands - Concerned with potential impacts to surrounding natural heritage system (NHS) caused by new gravity sewers	March 29, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Phone Call	- Discussion with Halton Region regarding lake-based and groundwater servicing options for Milton	April 12, 2011.	- Added to emailing list, April 18, 2011 - Halton Region provided an email response, April 13, 2011., in addition to a phone conversation - Sent specific response letter and Notice of Completion, October 13/14, 2011
Teresa Wagner	A/Heritage Planner	Ministry of Tourism and Culture	401 Bay Street, Suite 1700	Toronto, ON	M7A 0A7	Email	- Would like update on the status of the Master Plan - Would like to receive a copy of the display boards presented at PIC2 to allow MTC to advise on whether any cultural heritage assessments would be recommended as part of this Class EA	April 12, 2011	- Region responded on April 13, 2011 with link to Master Plan website and a summary of the next steps - Sent Notice of Completion, October 13/14, 2011
Bob Thomson	Chair, Ontario Council	Trout Unlimited Canada	P.O. Box 1014, Station Q	Toronto, ON	M5T 2P2	Letter via Email	- Organization works closely within watersheds of Halton Region - Stressed declining water quality of Credit River - believe comments in the Master Plan are very general in terms of environmental and ecological impacts (i.e. current and historic base flows, temperatures, etc.) - concerns with starting point as referencing the current point rather than reflecting historic or healthy conditions - what innovative approaches to water/wastewater treatment is the Region considering? - would like to see a water conservation plan in the Master Plan - impacts of climate change on groundwater supplies? - would like to see reference to provinces' Water Opportunities and Conservation Act and Source Water Protection Strategies - cannot support the Master Plan given the implications to Trout Unlimited Canada's core policies regarding fish populations and water quantity and quality	April 15, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Heather Levecque	Manager, Consultation Unit	Ministry of Aboriginal Affairs	160 Bloor Street East, 9th Floor	Toronto, ON	M7A 2E6	Letter	- Master Plan projects appear to be located in an area where First Nations may have existing or asserted rights or claims in MAA's claims process or litigation - provided contacts for information about possible claims in the area	April 21, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Gordon Patterson	Principal	The Sernas Group	141 Brunel Road	Mississauga, ON	L4Z 1X3	Letter by Email	- Writing on behalf of the South West Georgetown Landowners Group, who own about 405 hectares of land - Suggest interim servicing for Georgetown and Halton Hills 401 Employment lands - Support the Preferred Water Servicing Strategy for Georgetown particularly providing lake-based water from the proposed Zone 4 Reservoir - Support general intention of the Preferred Wastewater Servicing Strategy for Georgetown, particularly extending lake-based servicing - Have concerns with trunk sewer along Ninth Line and the excessive depths that would be required; suggest trunk sewer down Eighth Line from 10th Sideroad to Steeles Ave. - Have concerns with trunk sewer from Hwy 401 down Trafalgar Rd through Milton East expansion area; request that an interim scheme be identified to prevent Georgetown from being left with little or no development; included interim servicing scheme.	April 27, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Resident						Email	-Resides in Timberlea neighborhood, and supports the switch to the lake based system	April 29, 2011.	- Added to mailing list, April 29, 2011 - Sent Notice of Completion, October 13/14, 2011
York Gruehl		York Trafalgar Corporation	1039 Fourth Line	Milton, ON	L9T 6P9	Letter	- Provided comments regarding ROPA 39 - Wish to further discuss timing issues and review the options and BPE structure	May 5, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Teresa Wagner	Heritage Planner	Ministry of Tourism and Culture	401 Bay Street, Suite 1700	Toronto, ON	M7A 0A7	Email	- Provided MTC's Checklist for Determining Archaeological Potential and requested that checklist be completed and sent back in order to determine whether an archaeological assessment by an archaeologist licensed under the Ontario Heritage Act will be recommended for this project	May 6, 2011	- Sent Notice of Completion, October 13/14, 2011
Jennifer Lawrence	Manager, Environmental Planning	Conservation Halton	2596 Britannia Rd West	Burlington, ON	L7P 0G3	Letter	- Responding to meeting with Regional staff on April 18, 2011 to discuss the Sustainable Halton Water and Wastewater Master Plan and the options available for the Milton WWTP. - Provided CH opinions/concerns regarding the decommissioning of the Milton WWTP, including information that should be considered in the assessment study	May 24, 2011	- Prefiling consultation - Sent Notice of Completion, October 13/14, 2011

First & Last Name	Title	Company	Address	City, Prov	Postal Code	Type	Comment	Date	Status/Response
Jennifer Lawrence	Manager, Environmental Planning	Conservation Halton	2596 Britannia Rd West	Burlington, ON	L7P 0G3	Letter	- Provided long list of specific comments addressing content in TAC #2 and Baseline Environmental Studies Report: Natural Features and Hydrology,	June 15, 2011	- Sent Notice of Completion, October 13/14, 2011
Carol Gustafson		Milton Green				Letter via Email	- Suggested specific ICI areas to be transferred from groundwater to lake based servicing in Milton - Included map to reference the specific properties and areas - Supports use of water efficient retrofits, especially with new builds, to help conserve water - Suggests existing lake-based service areas be utilized for intensification to help relieve pressure on groundwater areas	July 6, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011
Chief Keith Knott		Curve Lake First Nation	22 Winookeeda Road	Curve Lake, ON	K0L 1R0	Letter	- Acknowledges receipt of correspondence and suggests consultation with Karry Sandy-Mackenzie, Claims Coordinator, for issues regarding First Nations Territory's - Not aware of any issues that would cause concern	July 6, 2011	- Sent Notice of Completion, October 13/14, 2011
Karen Chisholme	Planning Ecologist	Credit Valley Conservation	1255 Old Derry Rd	Mississauga, ON	L5N 6R4	Letter	- Provided specific comments for Zones 1-4 after reviewing the Baseline Environmental Studies Report - CVC generally concurs with CH comments as they relate to CVC's watershed jurisdiction and policies	July 22, 2011	- Sent Notice of Completion, October 13/14, 2011
David Johnston	Planner	Niagara Escarpment Commission	232 Guelph Street	Georgetown, ON	L7G 4B1	Email	- Correspondence regarding Project File Binders with Water and Wastewater Capital Program	August 3 to September 6	- Prefiling consultation - Sent Notice of Completion, October 13/14, 2011
Jennifer Lawrence	Manager, Environmental Planning	Conservation Halton	2596 Britannia Rd West	Burlington, ON	L7P 0G3	Email	- Correspondence regarding Project File Binders with Water and Wastewater Capital Program	August 3 to September 6	- Sent Notice of Completion, October 13/14, 2011
David Scott	Founding Partner	The Municipal Infrastructure Group	8800 Dufferin Street, Suite 200	Vaughan, ON	L4K 0C5	Letter	- On behalf of the Boyne Survey West clients, Fieldgate Developments and Great Gulf Homes - Deviation from the plan presented at the February 2011 PIC 2, which identifies that the Boyne lands west of 1st line and east of the CN corridor will not be conveyed to the existing Tremaine SPS but rather diverted to a new 675mm trunk sewer to be constructed along Britannia Road - This change to the Wastewater Strategy can potentially delay development of their lands east of the CN Corridor - Request clarification on the matter - Concerned that the existing Tremaine SPS does not have sufficient capacity for pumping sanitary flows from the Milton Education Village lands in addition to the tributary Milton Phase 2 lands west of 1st Line, the Milton Phase 3 lands west of 1st Line - Requests confirmation of proposed drainage areas and flows to the Tremaine SPS - Suggest that if capacity does not exist, then options for upgrades should be considered	September 30, 2011	- Sent specific response letter and Notice of Completion, October 13/14, 2011

GOVERNMENT / AGENCIES

GOVERNMENT / AGENCIES

CONSULTATION

Meeting Agenda

Date of Meeting	August 31, 2011	Start Time	1.30 pm	Project Number	60114062
Project Name	Sustainable Halton (W 2501A / S2500)				
Location	Credit Valley Conservation, 1255 Old Derry Road West, Mississauga				
Regarding	Sustainable Halton Water and Wastewater Master Plan				

Discussion Items

Item	Topic
1.	Overview of the Sustainable Halton Master Plan process
2.	Project review and feedback
3.	Confirm review requirements
4.	Master Plan Filing Schedule

Aug 31 2011

Credit Valley Conservation W/WWMP Meeting Attendance

Chris Campbell

DAVID SIMPSON

MAGDA BIELAWSKI

TOMISLAV RENIC

LIAM MARRAY

Jennifer Dougherty

DAN BANKS

BOB MORRIS

CHRIS HANTEL

AECOM

HALTON REGION (water)

HALTON REGION (WW)

HALTON REGION (WATER)

CREDIT VALLEY CONSERVATION (CVC)

(CVC)

CVC

CVC

AECOM

Meeting Agenda

Date of Meeting	Sept 8, 2011	Start Time	2.00 pm	Project Number	60114062
Project Name	Sustainable Halton (W 2501A / S2500)				
Location	Conservation Halton office				
Regarding	Water and Wastewater Master Plan Consultation				

Discussion Items

Item	Topic
1.	Overview of the Sustainable Halton Master Plan process
2.	Project review and feedback
3.	Confirm review requirements
4.	Master Plan Filing Schedule

Sustainable Halton W/WW MP Sept 8
Conservation Halton Consultation

Attendance

Chris Campbell

AECOM

DAVID SIMPSON

HALTON REGION

SAMANTHA MASON

CONSERVATION HALTON

Kim Barrett

Conservation Halton

Jennifer Lawrence

CHRIS LAMEL

AECOM

JOHN DUONG

HALTON REGION

Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Oakville						
3706	600 mm WWM crossing Dundas St and 600mm WWM on Dundas St from 900m west of Colonel William Parkway to Colonel William Parkway	OAK	WWM	\$ 4,005,000	A+	2012-2016
4994	600 mm WWM on new North Oakville road from Burnhamthorpe Rd to Dundas Street	OAK	WWM	\$ 5,880,000	A+	2012-2016
4995	New 37 ML/d WWPS on Dundas St E approximately 550m west of Ninth Line (428 L/s)	OAK	WWPS	\$ 6,935,000	B (Satisfied through 2008 MP)	2012-2016
5062	600 mm WWM on new North Oakville road from Burnhamthorpe Rd West to Dundas Street	OAK	WWM	\$ 2,579,000	A+	2012-2016
5063	525 mm WWM on new North Oakville road from Burnhamthorpe Rd West to Dundas Street	OAK	WWM	\$ 2,087,000	A+	2012-2016
5095	Mid Haldon WWTP Odour Control Studies (OAK) - \$87,000/year for 20 years	OAK	STUDY	\$ 1,740,000	N/A	2012-2031
5945	Mid-Haldon new effluent sewer/outfall - Construction	OAK	WWTP	\$ 90,000,000	3808 (EA/D), EA Completed	2012-2016
6215	600 mm WWM on Noyagawa Blvd from Burnhamthorpe Rd to new internal North Oakville road, north of Dundas St	OAK	WWM	\$ 4,000,000	A+	2012-2016
6380	2400 mm WWM on new 3rd Line from 700 m north of Dundas St to Dundas St - Construction	OAK	WWM	\$ 7,632,000	3794 (EA/D), EA Completed	2012-2016
6381	2400 mm WWM on new road alignment from Lower Base Line to 3rd Line (700 m north of Dundas St) - Construction	OAK	WWM	\$ 49,923,000	3794 (EA/D), EA Completed	2012-2016
6383	Mid Haldon WWTP Phase 4/5 expansion from 75 ML/d to 125 ML/d (OAK) - Construction	OAK	WWTP	\$ 120,000,000	3808 (EA/D), EA Completed	2012-2016
6384	Mid Haldon North Pumping Station Expansion - Construction	OAK	WWPS	\$ 13,500,000	3808 (EA/D), EA Completed	2012-2016
6481	450 mm WWM on internal road parallel to Dundas St from west of 16 Mile Creek Bridge to 190 m east of Proudfoot Trail	OAK	WWM	\$ 296,000	A+	2012-2016
6546	Construction of approx 100 m of new local sewer to eliminate Shepherd Rd WWPS sewer sized adequately to accommodate 2031 flows of approximately 21.2 L/s	OAK	WWPS	\$ 400,000	A+	2027-2031
6551	525 mm WWM on new North Oakville road from Burnhamthorpe Rd to Project #5062	OAK	WWM	\$ 1,519,000	A+	2012-2016
6588	Mid-Haldon WWTP expansion from 125 ML/d to 175 ML/d	OAK	WWTP	\$ 93,304,000	C	2012-2016
6526	450 mm WWM on service Rd for West River WWPS from West River Street to WWPS	OAK	WWM	\$ 141,000	A+	2017-2021
6527	450 mm WWM on service road to Marine Drive WWPS from Marine Drive	OAK	WWM	\$ 27,000	A+	2017-2021
6528	31.9 L/s upgrade of West River WWPS	OAK	WWPS	\$ 467,000	A+	2012-2016
6529	375 mm WWM on Oak Park from Dundas Street East to Central Park then along Central Park to Georgian Drive	OAK	WWM	\$ 838,000	A+	2012-2016
6530	300 mm WWM on Kerr Street between Forster Park and Rebecca Street	OAK	WWM	\$ 864,000	A+	2017-2021
6531	250 mm WWM on Chisholm/Rebecca Street between Forsyth Street and Chisholm Street on Rebecca Street and on Chisholm Street between Rebecca Street and 45 m north of Lakeshore Rd West	OAK	WWM	\$ 218,000	A+	2022-2026
6532	525 mm WWM on Stewart Street between Felan Drive and Kerr Street	OAK	WWM	\$ 360,000	A+	2027-2031
6534	375 mm WWM on Lyons Lane between Cross Ave and due north up Lyons Lane 150 m	OAK	WWM	\$ 206,000	A+	2022-2026
6535	450 mm WWM on Trafalgar Rd between 10 m north of Inglehart Street North and over Cornwall Rd and railway to connect to Cross Ave	OAK	WWM	\$ 1,191,000	A+	2022-2026
6536	525 mm WWM on Cross Avenue between Argus Rd and Lyons Lane	OAK	WWM	\$ 1,902,000	A+	2022-2026
6537	675 mm WWM on Trafalgar Rd between Spruce Street until 60 m north of Cornwall Rd where it follows the side road crossing the railway line and through the Go Transit Stn car Park and heads due west and north up Argus Rd for 60 m	OAK	WWM	\$ 3,276,000	A+	2022-2026
6538	Upgraded gravity sewer within UGC on North Service Rd from Truman Ave to east of Pearson Dr	OAK	WWM	\$ 472,000	A+	2012-2016
6540	Twin 900 mm WWM on Trafalgar Rd and Randall Street/Rebecca Street from Lawson Street to Wilson Street	OAK	WWM	\$ 8,574,000	A+	2012-2016
6541	Deep Trunk Sewer on Rebecca St and Lakeshore Rd W from Wilson St to Oakville SW WWTP	OAK	WWM	\$ 45,502,000	B	2012-2016
6542	Decommissioning of 5 WWPSs	OAK	WWPS	\$ 500,000	A+	2012-2016
6543	Gravity Sewers from Decommissioned WWPS's to New Deep Trunk	OAK	WWM	\$ 1,311,000	A+	2012-2016
6544	6 L/s upgrade of Bronte Yacht Club WWPS	OAK	WWPS	\$ 87,000	A+	2012-2016
Subtotal Oakville				\$ 469,736,000		
Burlington						
5907	300 mm WWM North Aldershot Servicing	BURL	WWM	\$ 4,268,000	Being Satisfied Under Separate Planning Study	2012-2016
6143	300mm WWM on North Service Rd from 440m east of Waterdown Rd to 360m north of North Service Rd - Part of 5907	BURL	WWM	\$ 500,000	A+	2012-2016
6545	41 L/s upgrade of Junction Street WWPS	BURL	WWPS	\$ 598,000	A+	2012-2016
6547	23 L/s upgrade of Grandview Avenue WWPS	BURL	WWPS	\$ 335,000	A+	2012-2016
6482	300 mm WWM on Plains Rd West from Grand View heading due north west	BURL	WWM	\$ 128,000	A+	2012-2016
6483	325 mm WWM on Plains Rd West from Grand View heading due north west	BURL	WWM	\$ 82,000	A+	2012-2016
6484	375 mm WWM on Plains Rd West from Grand View heading due north west	BURL	WWM	\$ 91,000	A+	2012-2016
6485	375 mm WWM on Plains Rd West between Howard Rd and entrance to Spring Gardens	BURL	WWM	\$ 588,000	A+	2017-2021
6486	200 mm WWM on Plains Rd West between Howard Rd and entrance to Spring Gardens	BURL	WWM	\$ 61,000	A+	2017-2021
6487	525 mm WWM on Plains Rd West between Howard Rd and entrance to Spring Gardens	BURL	WWM	\$ 2,287,000	A+	2017-2021
6488	250 mm WWM on Guelph Line between Woodward and 120m south of Prospect Street	BURL	WWM	\$ 331,000	A+	2017-2021
6489	450 mm WWM on Appleby Line between Fairview Street and 151 m south of Harvester Rd	BURL	WWM	\$ 1,445,000	A+	2017-2021

Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6490	300 mm WWM on Pearl Street between Old Lakeshore Rd and Pine Street	BURL	WWM	\$ 195,000	A+	2017-2021
6491	525 mm WWM on Lakeshore Rd between Old Lakeshore Rd entrance and Torrance Street	BURL	WWM	\$ 133,000	A+	2017-2021
6492	825 mm WWM on Maple Avenue East Between Lakeshore Rd and Fairview Street	BURL	WWM	\$ 6,136,000	A+	2017-2021
Subtotal Burlington				\$ 17,176,000		
Milton						
5066	750 mm WWM on 5th Line from new BP11 WWPS (IPFS #5896) to Louis St Laurent Ave	MIL	WWM	\$ 1,721,000	A+	2012-2016
5067	900 mm WWM on James Snow Parkway from Louis St Laurent Ave to Britannia Rd and 1200 mm WWM on Britannia Rd from Louis St Laurent Ave to Britannia Rd /Thompson Rd WWPS	MIL	WWM	\$ 38,053,000	A+	2012-2016
5068	3 x 450 mm WWFM from new WWPS (IPFS #5069) to 300 m east of R.R. 25 (Incl. portion of WWFM under 16 Mile Creek) - Design	MIL	WWFM	\$ 704,000	B (Satisfied through 2008 MP)	2012-2016
5069	New 86 ML/d WWPS on Britannia Rd between 3rd Line and 16 Mile Creek (1000 L/s) - Design	MIL	WWPS	\$ 1,633,000	B (Satisfied through 2008 MP)	2012-2016
5900	675 mm WWM on Britannia Rd from 275 m west of Bronie Rd to 300 m west of Regional Rd 25	MIL	WWM	\$ 2,272,000	A+	2012-2016
5905	375 mm WWM on Britannia Rd from east of Tremaine Rd to Project #5906 on new South Milton road alignment	MIL	WWM	\$ 535,000	A+	2012-2016
5906	600 mm WWM on new Milton South road alignment from Britannia Rd to Tremaine Rd WWPS	MIL	WWM	\$ 2,015,000	A+	2012-2016
5912	200 - 375 mm WWM on new Milton Phase 3 road alignment south to Britannia Rd	MIL	WWM	\$ 922,000	A+	2012-2016
6114	450 mm WWM on new road from west of Thompson Rd to Thompson Rd and 525 mm WWM on Thompson Rd from north of Britannia Rd to Britannia Rd	MIL	WWM	\$ 1,602,000	A+	2012-2016
6115	3 x 450 mm WWFM from new WWPS (IPFS #5069) to 300 m east of R.R. 25 (Incl. portion of WWFM under 16 Mile Creek) - Construction	MIL	WWFM	\$ 6,121,000	B (Satisfied through 2008 MP)	2012-2016
6116	750 mm WWM on Louis St Laurent from 5th Line to James Snow Pkwy	MIL	WWM	\$ 3,067,000	A+	2012-2016
6382	2100mm WWM on Regional Rd 25 from Boyne WWPS to Lower Base Line - Construction	MIL	WWM	\$ 14,755,000	3867 (EA/D), EA Completed	2012-2016
6427	New 86 ML/d WWPS on Britannia Rd between 3rd Line and 16 Mile Creek (1000 L/s) - Construction	MIL	WWPS	\$ 14,193,000	B	2012-2016
6497	300 mm WWM on Derry Rd from 8th Line to Trafalgar Rd	MIL	WWM	\$ 828,000	A+	2017-2021
6498	450 mm WWM on new road from 8th Line to Trafalgar Rd	MIL	WWM	\$ 1,544,000	A+	2017-2021
6499	300 mm WWM on Britannia Rd from 8th Line to Trafalgar/ Britannia WWPS	MIL	WWM	\$ 1,074,000	A+	2017-2021
6500	600 mm WWM on 4th Line from new road to Lower Base Line WWPS	MIL	WWM	\$ 4,332,000	A+	2022-2026
6501	450 mm WWM on 4th Line from south of Britannia Rd to new road	MIL	WWM	\$ 3,481,000	A+	2022-2026
6502	525 mm WWM on Thompson Rd and new internal road from south of Britannia to 4th Line	MIL	WWM	\$ 2,357,000	A+	2022-2026
6503	300 mm WWM on 8th Line from north of Derry Rd to Derry Rd	MIL	WWM	\$ 502,000	A+	2022-2026
6504	450 mm WWM on 8th Line from north of new road to new road	MIL	WWM	\$ 808,000	A+	2022-2026
6505	300 mm WWM on 8th Line from north of Britannia Rd to Britannia Rd	MIL	WWM	\$ 397,000	A+	2022-2026
6507	1200 mm WWM on Britannia Rd to 5th Line to James Snow Pkwy	MIL	WWM	\$ 3,138,000	A+	2017-2021
6508	Decommissioning of HH WWPS #3, connection to new 8th Line trunk sewer	MIL	WWPS	\$ 500,000	A+	2017-2021
6550	525 mm WWM on Louis St Laurent Extension from Tremaine Rd to Tremaine Rd WWPS	MIL	WWM	\$ 1,430,000	A+	2012-2016
6552	375 mm WWM on new road alignment in Milton Education Village from from 950 m south of Louis St Laurent extension to Louis St Laurent extension	MIL	WWM	\$ 2,918,000	A+	2017-2021
6553	450 mm WWM on new road in Milton Education Village from 600m north of Louis St Laurent extension to Louis St Laurent extension and on Louis St Laurent extension from 340m west of Tremaine Rd to Tremaine Rd	MIL	WWM	\$ 844,000	A+	2017-2021
6554	600 mm WWM on Lower Base Line from WWFM discharge approx 650 m west of 1st Line to Regional Rd 25	MIL	WWM	\$ 7,118,000	A+	2022-2026
6555	17 ML/d WWPS on Tremaine Rd (200 L/s)	MIL	WWPS	\$ 6,476,000	B	2022-2026
6556	Twinned 300 mm WWFM from Tremaine WWPS to Lower Base Line, approx 650 m west of 1st Line	MIL	WWFM	\$ 2,568,000	A+	2022-2026
6557	600 mm WWM on Tremaine Rd from approximately 880 m north of South Tremaine Rd WWPS to South Tremaine Rd WWPS	MIL	WWM	\$ 3,310,000	A+	2022-2026
6558	525 mm WWM on Tremaine Rd from approx 1500m north of South Tremaine WWPS to approx 880 m north of South Tremaine WWPS	MIL	WWM	\$ 2,700,000	A+	2022-2026
6559	450 mm WWM on Tremaine Rd from Britannia Rd to 1700 m south of Britannia Rd	MIL	WWM	\$ 4,154,000	A+	2022-2026
6560	525 mm WWM on James Snow Pkwy and new road alignment from Steeles Ave to Esquensing Line	MIL	WWM	\$ 1,931,000	A+	2017-2021
6561	375 mm WWM on new road and Britannia Rd from Milton Education Village to Tremaine Rd	MIL	WWM	\$ 488,000	A+	2022-2026
6562	450 mm WWM on new road from 440 m north of Derry Rd to Derry Rd and 525 mm WWM on Derry Rd from 725 m east of 5th Line to 5th Line	MIL	WWM	\$ 1,117,000	A+	2012-2016
6563	Decommissioning of temporary FM (IPFS #6112)	MIL	WWFM	\$ 1,000,000	A+	2012-2016
6564	525 mm WWM on new alignment from Esquensing Line to 3rd Line	MIL	WWM	\$ 2,953,000	A+	2017-2021
6571	104 ML/d WWPS on Trafalgar Rd/ Britannia Rd (1200 L/s)	MIL	WWPS	\$ 18,532,000	B	2017-2021
6573	1050 mm WWM 401 Crossing from Steeles Ave to Auburn Rd	MIL	WWM	\$ 8,499,000	B	2017-2021
6574	1050 mm WWM on Auburn Rd from Hwy 401 crossing easement to Trafalgar Rd	MIL	WWM	\$ 2,923,000	B	2017-2021
6575	1050 mm WWM on Trafalgar Rd from Auburn Rd to Derry Rd	MIL	WWM	\$ 6,623,000	A+	2017-2021
6576	1050 mm WWM on Trafalgar Rd from Derry Rd to Golf Course	MIL	WWM	\$ 4,269,000	A+	2017-2021
6577	1050 mm WWM on Trafalgar Rd from Golf Course to Britannia Rd / Trafalgar Rd WWPS	MIL	WWM	\$ 7,561,000	A+	2017-2021
6578	525 WWM on Trafalgar Rd from south of Britannia Rd to Britannia Rd/ Trafalgar Rd WWPS	MIL	WWM	\$ 4,105,000	A+	2022-2026

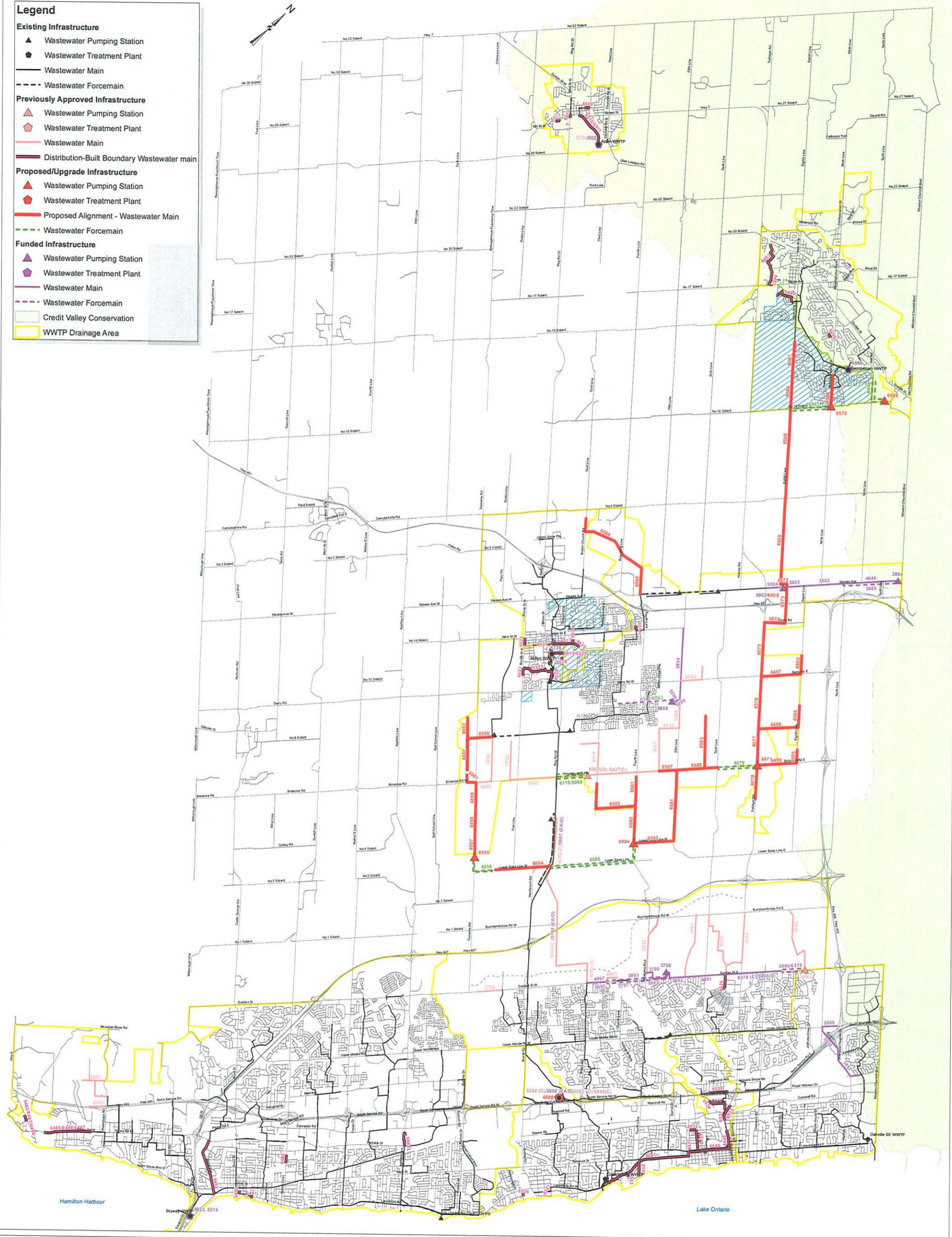
Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6579	Twinned 750 mm WWFM on Britannia Rd from Trafalgar Rd to 6th Line	MIL	WWFM	\$ 11,288,000	A+	2017-2021
6580	1200 mm WWM on Britannia Rd from 6th Line to 5th Line	MIL	WWM	\$ 7,596,000	A+	2017-2021
6581	1350 mm WWM on 5th Line from Britannia Rd to Lower Base Line	MIL	WWM	\$ 14,663,000	A+	2022-2026
6582	1350 mm WWM on Lower Base Line from 5th Line to 4th Line	MIL	WWM	\$ 9,356,000	A+	2022-2026
6583	525 mm WWM on new road from 1400 m north of Britannia Rd to Britannia Rd	MIL	WWM	\$ 5,356,000	A+	2017-2021
6584	156 ML/d WWPS at Lower Base Line and 4th Line (1805 L/s)	MIL	WWPS	\$ 26,403,000	B	2022-2026
6585	Twinned 900 mm WWFM from Lower Base Line to RR 25	MIL	WWFM	\$ 22,331,000	C	2017-2021
6514	450 mm WWM on Maple Ave between Main Street East and Turner Drive	MIL	WWM	\$ 234,000	A+	2012-2016
6515	300 mm WWM on Childs Drive between Ontario Street South and the south entrance of Saiok Crescent	MIL	WWM	\$ 416,000	A+	2017-2021
6516	375 mm WWM on Nipissing Rd between Milton Mall entrance and Childs Drive	MIL	WWM	\$ 207,000	A+	2017-2021
6517	450 mm WWM on Oak Street between Charles Street and Ontario Street South	MIL	WWM	\$ 1,043,000	A+	2012-2016
6518	250 mm WWM on Donald Campbell Avenue between Ontario Street South and Cemetery Rd	MIL	WWM	\$ 90,000	A+	2022-2026
6519	375 mm WWM between 50 m south of Wakefield Rd and the southern tip of Fulton Street	MIL	WWM	\$ 354,000	A+	2022-2026
6520	525 mm WWM between 50 m south of Wakefield Rd and the southern tip of Fulton Street	MIL	WWM	\$ 135,000	A+	2022-2026
6521	750 mm WWM linking Oak Street east to Oak Street West	MIL	WWM	\$ 23,000	A+	2022-2026
6522	250 mm on Bronte Street West between Main Street West and Robert Street	MIL	WWM	\$ 299,000	A+	2027-2031
6523	450 mm WWM on Bronte Street South between Anne Blvd and 67 m north of Laurier Ave entrance	MIL	WWM	\$ 652,000	A+	2027-2031
6524	600 mm WWM on Williams Ave/Commercial Street from southern corner of Williams Ave and south down Commercial Street to Laurier Ave	MIL	WWM	\$ 908,000	A+	2017-2021
6525	750 mm WWM on Anne Blvd between Bronte Street South and down along the length of Meadowbrook Drive and across Bronte Meadows Park to join Williams Ave at southern corner	MIL	WWM	\$ 2,419,000	A+	2022-2026
Subtotal Milton				\$ 303,846,000		
Halton Hills - Acton						
5726	Acton WWTP Expansion to 7 ML/d	HHACT	WWTP	\$ 22,890,000	EA Complete	2012-2016
6509	450 mm WWM on Mill Street between Wilbur Street North and Wallace Street	HHACT	WWM	\$ 262,000	A+	2012-2016
6510	300 mm WWM on Main Street South between Cobblehill Rd and Brock Street	HHACT	WWM	\$ 148,000	A+	2017-2021
6511	600 mm WWM from Elgin Street South along Black Creek alignment to Tanners Drive	HHACT	WWM	\$ 465,000	B (Separate EA Study Required)	2017-2021
6512	525 mm WWM from Elgin Street South along Black Creek alignment to Tanners Drive	HHACT	WWM	\$ 1,594,000	B (Separate EA Study Required)	2022-2026
6513	250 mm WWM on Storey Drive between Kingham and Cobblehill Rd	HHACT	WWM	\$ 196,000	A+	2022-2026
6565	TP Offset Program	HHACT	STUDY	\$ 3,300,000	A+	2012-2016
6566	Black Creek Monitoring Program	HHACT	STUDY	\$ 550,000	A+	2012-2016
Subtotal Halton Hills - Acton				\$ 29,405,000		
Halton Hills - Georgetown						
6493	300 mm WWM on Atwood Ave/Murno Circle and existing sewer alignment from Berton Blvd to Maple Ave	HHGEO	WWM	\$ 2,060,000	A+	2017-2021
6494	300 mm WWM on Arboglen Drive and across North Halton Golf Course towards Maple Ave	HHGEO	WWM	\$ 280,000	B (Separate EA Study Required)	2017-2021
6495	300 mm WWM on Delrex Blvd between Irwin Crescent and the southern entrance to Fauldon Drive	HHGEO	WWM	\$ 140,000	A+	2017-2021
6496	Twinned 250 mm WWFM from Norval WWPS to Argyll Rd	HHGEO	WWFM	\$ 886,000	A+	2022-2026
6506	675 mm WWM on 9th Line from Argyll Rd to 10th Side Rd - Georgetown South Connection	HHGEO	WWM	\$ 3,955,000	A+	2017-2021
6567	Twinned 300 mm WWFM on 10th Side Rd from 9th Ln to 8th Ln	HHGEO	WWFM	\$ 847,000	A+	2017-2021
6568	900 mm WWM on 8th Line from 10th Side Rd to 5th Side Rd	HHGEO	WWM	\$ 5,891,000	A+	2017-2021
6569	900 mm WWM on 8th Line from 5th Side Rd to Steeles Ave	HHGEO	WWM	\$ 5,869,000	A+	2017-2021
6570	24 ML/d WWPS at 10 Side Rd/9th Line (275 L/s)	HHGEO	WWPS	\$ 6,795,000	B	2017-2021
6586	750 mm WWM on 8th Line from Argyll Rd to 10th Side Rd	HHGEO	WWM	\$ 1,782,000	A+	2017-2021
6587	600 mm WWM on 8th Line from Miller Rd to Argyll Rd	HHGEO	WWM	\$ 1,420,000	A+	2017-2021
6589	3 ML/d WWPS on 10th Side Rd in Norval (35 L/s)	HHGEO	WWPS	\$ 684,000	B	2022-2026
Subtotal Halton Hills - Georgetown				\$ 30,609,000		
Halton Hills - 401 Corridor						
6572	1050 mm WWM on Steeles Ave from 8th Line to Crossing Easement	HH401	WWM	\$ 1,755,000	B	2017-2021
Subtotal Halton Hills - 401 Corridor				\$ 1,755,000		
Subtotal Halton Hills				\$ 61,769,000		

Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Region-Wide						
4810	Long Term Biosolids Management and Implementation Plan	REG	STUDY	\$ 20,780,000	N/A	2012-2016
5729	Halton Wastewater Master Plan (REG) - \$880,000 in 2015, 2020, 2025 and 2030	REG	STUDY	\$ 3,520,000	N/A	2012-2031
6187	Wastewater Treatment Capacity Annual Monitoring Report (REG) - \$45,000/year for 20 years	REG	STUDY	\$ 900,000	N/A	2012-2031
6188	Wastewater Collection System Analysis (REG) - \$110,000/year for 20 years	REG	STUDY	\$ 2,200,000	N/A	2012-2031
Subtotal Region-Wide				\$ 27,400,000		
TOTAL				\$ 879,929,000		

- Legend**
- Existing Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Wastewater Main
 - - - Wastewater Forcemain
- Previously Approved Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Wastewater Main
 - Distribution-Built Boundary Wastewater main
- Proposed/Upgrade Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Proposed Alignment - Wastewater Main
 - - - Wastewater Forcemain
- Funded Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Wastewater Main
 - - - Wastewater Forcemain
- Credit Valley Conservation
- WWTP Drainage Area



Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Oakville						
82	400 mm Zone 2 WM on 3rd Line from Wycroft Rd to North Service Road (Zone O2)	OAK	WM	\$ 982,000	B (Satisfied though 2008 MP)	2017-2021
3713	400mm WM on Burnhamthorpe Rd from Trafalgar Rd to new North Oakville road. (Zone O4) (Design)	OAK	WM	\$ 317,000	A+	2012-2016
4983	400 mm WM on new North Oakville road from Burnhamthorpe Rd to Dundas St (Zone O4) (Design)	OAK	WM	\$ 424,000	A+	2012-2016
5627	600 mm WM through North Oakville Lands from Tremaine Rd to Bronte Rd (Zone O3)	OAK	WM	\$ 7,238,000	A+	2012-2016
5632	300 mm WM on 9th Line from Burnhamthorpe Rd to Dundas St (Zone O4)	OAK	WM	\$ 2,254,000	A+	2012-2016
5633	300 mm WM on Burnhamthorpe Rd from new North Oakville road to 9th Line (Zone O4)	OAK	WM	\$ 2,342,000	A+	2012-2016
5853	600 mm WM on Tremaine Rd from Dundas St to approximately 950 m north (North Oakville Lands) (Zone O3)	OAK	WM	\$ 1,330,000	A+	2012-2016
5951	Design of Burloak WPP Phase 2 Expansion from 55 to 165 ML/d.	OAK	WPP	\$ 11,327,000	C	2012-2016
6362	600mm in North Oakville along 6th Line to Burnhamthorpe Rd (Zone O4)	OAK	WM	\$ 2,005,000	A+	2012-2016
6364	1500 mm WM from Zone 2 Burloak PS to Kitchen Reservoir (Zone O1) (Construction)	OAK	WM	\$ 53,062,000	C	2012-2016
6368	1050 mm WM from Burloak Pumping Station north on Burloak Dr to Upper Middle Rd (Zone B2) (Construction)	OAK	WM	\$ 6,515,000	A+	2012-2016
6370	750 mm WM on Dundas St from 6th Line to WM #5321 at Dundas St and Neyagawa Blvd (Construction) (Zone O3)	OAK	WM	\$ 5,030,000	A+	2012-2016
6372	Construction of Burloak WPP Phase 2 Expansion from 55 to 165 ML/d	OAK	WPP	\$ 98,433,000	C	2012-2016
6443	400 mm WM on Burnhamthorpe Rd from Trafalgar Rd to new North Oakville road (Zone O4) (Construction)	OAK	WM	\$ 1,828,000	A+	2012-2016
6444	400 mm WM from Burnhamthorpe Rd to Dundas St on new North Oakville road (Zone O4) (Construction)	OAK	WM	\$ 2,449,000	A+	2012-2016
6661	900 mm Second Feedermain to Davis Road Booster Pumping Station (Zone O1)	OAK	WM	\$ 14,171,000	B	2012-2016
6662	400 mm WM on Wycroft Rd from Burloak Dr to 3rd Line (Zone O2)	OAK	WM	\$ 10,973,000	A+	2017-2021
6663	400 mm WM from 9th Line on easement to Bristol Circle (Zone O3)	OAK	WM	\$ 3,008,000	B	2012-2016
6680	Oakville WPP Intake Pipe Extension - Design	OAK	WPP	\$ 1,500,000	C	2012-2016
6681	Oakville WPP Intake Pipe Extension - Construction	OAK	WPP	\$ 8,500,000	C	2017-2021
6682	Class EA Study of Oakville WPP Expansion from 109 to 130 ML/d	OAK	WPP	\$ 1,000,000	C	2012-2016
6683	Design of Oakville WPP Expansion from 109 to 130 ML/d.	OAK	WPP	\$ 3,464,000	C	2012-2016
6684	Construction of Oakville WPP Expansion from 109 to 130 ML/d	OAK	WPP	\$ 20,803,000	C	2012-2016
6702	40 ML/d expansion at the North Oakville Zone O4 Pumping Station (existing site)	OAK	P.S.	\$ 4,536,000	B	2022-2026
6726	300 mm WM on Sovereign between Bronte Rd and East Street	OAK	WM	\$ 2,652,000	A+	2017-2021
6727	300 mm WM on Ontario/East Street between Bronte Rd and Marine Drive	OAK	WM	\$ 2,060,000	A+	2017-2021
6728	300 mm WM on Cowan Between Kerr Street and Ingleswood Drive	OAK	WM	\$ 611,000	A+	2022-2026
6729	300 mm WM on Deane between Kerr Street and Felan Ave	OAK	WM	\$ 981,000	A+	2022-2026
6730	300 mm WM on Normandy between Kerr Street and Queen Mary Drive	OAK	WM	\$ 651,000	A+	2027-2031
6731	300 mm WM on Forsythe between Rebecca Street and Burnet Street	OAK	WM	\$ 577,000	A+	2027-2031
Subtotal Oakville				\$ 271,023,000		
Burlington						
54	30 ML/d Pumping Station at Appleby Line Reservoir (Zone B3)	BUR	P.S.	\$ 10,274,000	B (Satisfied though 2008 MP)	2012-2016
3699	4.5 ML North Aldershot in ground Reservoir (Zone B3A)	BUR	P.S.	\$ 5,072,000	Being Satisfied Under Separate Planning Study	2012-2016
3700	400 mm WM from Waterdown Reservoir pumping station to new North Aldershot Reservoir (Zone B3A)	BUR	WM	\$ 2,279,000	Being Satisfied Under Separate Planning Study	2012-2016
5850	1050 mm WM on Upper Middle Rd from Burloak Dr west to Appleby Line (Zone B2) (Construction)	BUR	WM	\$ 8,514,000	A+	2012-2016
5881	400 mm WM from Waterdown pumping station along North Service Rd to King Rd (Zone B2)	BUR	WM	\$ 6,598,000	B (Satisfied though 2008 MP)	2012-2016
6365	1800 mm WM from Burloak WPP to Burloak Zone 2 Booster Pumping Station (Zone O1) (Construction)	BUR	WM	\$ 17,460,000	C	2012-2016
6367	120 ML/d Burloak Pumping Station Construction, Phase 1, 50 ML/D (Zone B2)	BUR	P.S.	\$ 12,522,000	B	2012-2016
6601	7.8 ML/d expansion at Beaufort Pumping Station (new site) (Zone B5)	BUR	P.S.	\$ 2,015,000	B	2012-2016
6602	7.5 ML storage expansion at Waterdown Reservoir (existing site) (Zone B1A)	BUR	RES.	\$ 7,767,000	A	2017-2021
6605	750 mm WM Second feed to Washburn Reservoir (Zone B1)	BUR	WM	\$ 24,096,000	A+	2012-2016
6665	400 mm WM between Tyandanga Reservoir and Beaufort Reservoir (Zone B4)	BUR	WM	\$ 6,602,000	B	2012-2016
6669	4.5 ML storage expansion at Tyandanga Reservoir (existing site) (Zone B3)	BUR	RES.	\$ 4,660,000	A	2017-2021
6670	2.5 ML storage expansion at Beaufort Reservoir Expansion (new site) (Zone B4)	BUR	RES.	\$ 3,275,000	B	2012-2016

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6671	6.6 ML/d expansion at Brant St Pumping Station (existing building) (Zone B3)	BUR	P.S.	\$ 735,000	A	2012-2016
6672	11.5 ML storage expansion at Brant St Reservoir (existing site) (Zone B1)	BUR	RES.	\$ 12,321,000	A	2017-2021
6673	5.5 ML storage expansion at Mount Forest Reservoir (existing site) (Zone B1)	BUR	RES.	\$ 5,696,000	A	2017-2021
6674	13.5 ML storage expansion at Washburn Reservoir (existing site) (Zone B1)	BUR	RES.	\$ 13,980,000	A	2012-2016
6699	Burloak Treatment Plant Expansion by 55 ML/d (Design) From 165 ML/d to 220 ML/d	BUR	WPP	\$ 11,849,000	C	2022-2026
6700	Burloak Treatment Plant Expansion by 55 ML/d (Construction) From 165 ML/d to 220 ML/d	BUR	WPP	\$ 76,008,000	C	2022-2026
6701	Kilchen Zone O3 Pumping Station expansion by 80 ML/d	BUR	P.S.	\$ 12,000,000	B	2022-2026
6770	Burloak Treatment Plant Expansion by 55 ML/d (Class EA Study) From 165 ML/d to 220 ML/d	BUR	WPP	\$ 1,323,000	C	2017-2021
6863	Waterdown Road Pumping Station Expansion (Zones B2, B3A & B5A)	BUR	P.S.	\$ 5,265,000	B	2012-2016
6704	200 mm WM on Brock Ave from Elgin Street to Lakeshore Rd	BUR	WM	\$ 325,000	A+	2017-2021
6705	200 mm WM on Regina Drive from Maple Avenue to Ecole Renaissance Schoolyard	BUR	WM	\$ 271,000	A+	2017-2021
6706	250 mm WM on Bellview Rd from Maple Avenue to end	BUR	WM	\$ 309,000	A+	2017-2021
6707	300 mm WM on Lakeshore Rd between Nelson Avenue and Burlington Avenue	BUR	WM	\$ 869,000	A+	2022-2026
6708	300 mm WM on Elizabeth Street from James Street to approximately 15 m north	BUR	WM	\$ 35,000	A+	2022-2026
6709	300 mm WM on Plains Rd East from north of Grandview Rd to twinned section on Plains	BUR	WM	\$ 2,678,000	A+	2012-2016
6710	300 mm WM on Plains Road East (Twinning adjacent to 6709)	BUR	WM	\$ 626,000	A+	2012-2016
6711	300 mm WM on Birchwood Avenue from Plains Rd East southwards towards Fairwood Place East	BUR	WM	\$ 104,000	A+	2017-2021
6712	300 mm WM on Gallagher Rd from Plains Rd East to 160 m Northerly	BUR	WM	\$ 239,000	A+	2017-2021
6713	300 mm WM on Downsview Rd from Plains Rd East to Dowland Crescent	BUR	WM	\$ 223,000	A+	2017-2021
6714	300 mm WM on Brant from Fairview St to 180 m northerly	BUR	WM	\$ 342,000	A+	2017-2021
6715	300 mm WM on Woodview Rd from Fairview Street to 100 m Northerly	BUR	WM	\$ 181,000	A+	2017-2021
6716	200 mm WM from end of Commerce Court north to Fairview Street	BUR	WM	\$ 268,000	A+	2017-2021
6717	300 mm WM on Fairview from Appleby to Taylor Crescent	BUR	WM	\$ 1,137,000	A+	2017-2021
6718	300 mm WM on Oval Crescent heading due north from Fairview Street	BUR	WM	\$ 250,000	A+	2017-2021
Subtotal Burlington				\$ 258,170,000		
Milton						
5862	400 mm WM loop from 5th Line running east then south on new Milton Business Park Roads to Derry Rd west to 5th Line (Zone M4)	MIL	WM	\$ 3,500,000	A+	2012-2016
5867	1200 mm WM on Britannia Rd from 4th Line to RR 25 (Zone M4)	MIL	WM	\$ 19,529,000	B (Satisfied though 2008 MP)	2012-2016
5868	750 mm WM on Britannia Rd from #5867 to approximately 2,100 m west (to new Milton South road) (Zone M4)	MIL	WM	\$ 7,599,000	A+	2012-2016
5870	400 mm WM on new Milton South road from Britannia Rd to Louis St Laurent Ave (Zone M4)	MIL	WM	\$ 1,614,000	A	2012-2016
5875	900 mm WM on Derry Rd from new MIL Business Park Road to Trafalgar Rd (Zone M4)	MIL	WM	\$ 9,523,000	B (Satisfied though 2008 MP)	2012-2016
5876	600 mm WM on new internal Milton road from Britannia Rd to Louis St Laurent Ave (Zone M4)	MIL	WM	\$ 2,726,000	B (Satisfied though 2008 MP)	2012-2016
6318	300mm WM on No 14 Siderd from Tremaine Rd. to Milton Reservoir (Zone M5G)	MIL	WM	\$ 1,046,000	A+	2012-2016
6398	600 mm WM on re-aligned Tremaine Rd from Steeles Avenue to existing watermain on Peru Rd south of Hwy 401 (Zone M5L)	MIL	WM	\$ 6,433,000	B (Satisfied though 2008 MP)	2012-2016
6616	400 mm WM on Thompson Rd South from Britannia Rd to approx. 1,156 south (Zone M4)	MIL	WM	\$ 1,633,000	A+	2022-2026
6617	400 mm WM on new roadway south of Britannia Rd from Thompson Rd South to 4th Line (Zone M4)	MIL	WM	\$ 2,131,000	A+	2022-2026
6618	400 mm WM on new roadway south of Britannia Rd from 4th Line to 5th Line (Zone M4)	MIL	WM	\$ 2,164,000	A+	2017-2021
6619	400 mm WM on new roadway south of Britannia Rd from 5th Line to 6th Line (Zone M4)	MIL	WM	\$ 1,458,000	A+	2017-2021
6620	400 mm WM on 6th Line from Britannia Rd to 600 m south (Zone M4)	MIL	WM	\$ 1,008,000	A+	2017-2021
6621	400 mm WM on 6th Line from Britannia Rd to 1,500 m north (Zone M4)	MIL	WM	\$ 2,584,000	A+	2017-2021
6622	400 mm WM on 6th Line from Derry Rd to new Rd 1,500 m south (Zone M4)	MIL	WM	\$ 3,113,000	A+	2017-2021
6623	400 mm WM on 5th Line from Britannia Rd to 1,500 m north of Britannia Rd (Zone M4)	MIL	WM	\$ 1,902,000	A+	2017-2021
6624	400 mm WM on 4th Line from Britannia Rd to 650 m south (Zone M4)	MIL	WM	\$ 677,000	A+	2017-2021
6625	400 mm WM on Lower Base Line (East) from 4th Line to 5th Line (Zone M4)	MIL	WM	\$ 2,538,000	A+	2022-2026
6626	400 mm WM on 5th Line from Britannia Rd to 650 m south (Zone M4)	MIL	WM	\$ 688,000	A+	2017-2021
6627	400 mm WM on 4th Line from 650 m south of Britannia Rd to Lower Base Line (West) (Zone M4)	MIL	WM	\$ 2,172,000	A+	2022-2026
6628	400 mm WM on 5th Line from 650 m south of Britannia Rd to Lower Base Line (West) (Zone M4)	MIL	WM	\$ 2,882,000	A+	2022-2026
6629	600 mm WM on Louis St. Laurent Ave from 5th Line to 6th Line (Zone M4)	MIL	WM	\$ 2,479,000	A+	2017-2021

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6630	600 mm WM on Louis St. Laurent Ave from 6th Line to Trafalgar Rd (Zone M4)	MIL	WM	\$ 4,076,000	A+	2017-2021
6631	400 mm WM on Louis St. Laurent Ave from Trafalgar Rd to 8th Line (Zone M4)	MIL	WM	\$ 2,549,000	A+	2017-2021
6632	400 mm WM on Britannia Rd from Trafalgar Rd to 600 m east (Zone M4)	MIL	WM	\$ 1,002,000	A+	2017-2021
6633	400 mm WM on Britannia Rd from 600 m east of Trafalgar Rd to 8th Line (Zone M4)	MIL	WM	\$ 1,091,000	A+	2022-2026
6634	400 mm WM on new Milton Rd from Trafalgar Rd to approximately 700 m east (Zone M4)	MIL	WM	\$ 1,469,000	A+	2017-2021
6635	400 mm WM on 8th Line from Derry Rd. to approximately 1,600 m south (Zone M4)	MIL	WM	\$ 2,756,000	A+	2022-2026
6636	400 mm WM on 8th Line from Britannia Rd to approximately 1,500 m north (Zone M4)	MIL	WM	\$ 2,187,000	A+	2022-2026
6637	400 mm WM on new roadway from Britannia Rd to approx. 1,200 m south (Zone M4)	MIL	WM	\$ 1,570,000	A+	2017-2021
6638	400 mm WM on Derry Rd from Trafalgar Rd to 500 m east (Zone M4)	MIL	WM	\$ 548,000	A+	2017-2021
6639	400 mm WM on Derry Rd from 600 m east of Trafalgar Rd to 8th Line (Zone M4)	MIL	WM	\$ 881,000	A+	2017-2021
6640	600 mm WM on Trafalgar Rd from Zone 4 Reservoir to 600 mm Zone M5L WM on Steeles Avenue (ID 3844) (Zone M5L)	MIL	WM	\$ 6,463,000	B	2017-2021
6649	400 mm WM on Esquesing Line from James Snow Parkway to approximately 800 m north (Zone M5L)	MIL	WM	\$ 1,188,000	A+	2017-2021
6650	400 mm WM on new roadway from Esquesing Line to Boston Church Rd (Zone M5L)	MIL	WM	\$ 2,449,000	A+	2017-2021
6651	400 mm WM on new roadway from Boston Church Rd to approximately 360 m west (Zone M5L)	MIL	WM	\$ 1,216,000	A+	2017-2021
6652	400 mm WM on new roadway from 360 m west of Boston Church Rd to No 5 Siderd (Zone M5L)	MIL	WM	\$ 1,101,000	A+	2017-2021
6653	400 mm WM on No 5 Siderd from approximately 400 m west of 3rd Line to 3rd Line (Zone M5L)	MIL	WM	\$ 435,000	A+	2017-2021
6656	400 mm WM on Britannia Rd from Tremaine Rd to approximately 700 m east (Zone M4)	MIL	WM	\$ 1,118,000	A+	2012-2016
6657	400 mm WM on Tremaine Rd from 1,000 m south of Britannia Rd to 2,200 m south of Britannia Rd (Zone M4)	MIL	WM	\$ 2,022,000	A+	2022-2026
6658	400 mm WM on Tremaine Rd from Britannia Rd to 1,000 m south of Britannia Rd (Zone M4)	MIL	WM	\$ 1,375,000	A+	2022-2026
6659	400 mm WM on new road alignment from Tremaine Rd to approximately 360 m west (Zone M4)	MIL	WM	\$ 437,000	A+	2022-2026
6660	400 mm WM on Tremaine Rd from Louis St Laurent to Britannia Rd West (Zone M4)	MIL	WM	\$ 1,718,000	A+	2012-2016
6664	Relining of Walkers Line Well Feedermain with 150mm pipe within existing easement from West Appleby Line to Surge Tank (Zone M5L)	MIL	WM	\$ 216,000	A+	2012-2016
6666	750 mm WM on James Snow Parkway from Burnhamthorpe Rd W to Lower Base Line W (Zone M4)	MIL	WM	\$ 8,136,000	A+	2027-2031
6667	Lake Based Servicing Transfer (Zone M5L)	MIL	WM	\$ 3,165,000	A+	2012-2016
6675	Kelso WPP Residual Management Study & optimization (Zone M5G)	MIL	WPP	\$ 4,000,000	A	2012-2016
6688	400 mm WM on Trafalgar Rd from Steeles Avenue to Hwy 401 (Zone M5L)	MIL	WM	\$ 374,000	B	2017-2021
6689	400 mm WM on Trafalgar Rd Hwy 401 Crossing (Zone M5L)	MIL	WM	\$ 2,826,000	B	2012-2016
6690	400 mm WM on Trafalgar Rd from Hwy 401 to Main St Extension (Zone M5L)	MIL	WM	\$ 1,196,000	B	2017-2021
6691	400 mm WM on Main St extension from Trafalgar Rd (Zone M5L)	MIL	WM	\$ 1,887,000	A+	2017-2021
6692	400 mm WM on Main St extension from 5th Line to approximately 2,100 m east (Zone M5L)	MIL	WM	\$ 3,964,000	A+	2017-2021
6698	10 ML storage expansion at Zone M5L Reservoir	MIL	RES.	\$ 10,356,000	A	2022-2026
6719	300 mm WM on Main St. from Ontario St. to Easement, on Easement from Main St. to Nipissing Rd and on Nipissing Rd from Easement to 251 Nipissing Rd.	MIL	WM	\$ 2,335,000	A+	2017-2021
6720	300 mm WM on Childs Drive from Ontario Street North to Robertson Crescent (Eastern entrance)	MIL	WM	\$ 1,716,000	A+	2017-2021
6721	300 mm WM on Ontario Street North from Main Street East to Parkway Drive East	MIL	WM	\$ 1,787,000	A+	2017-2021
6722	300 mm WM on Woodward Avenue between Martin Street and Ontario Street North	MIL	WM	\$ 1,919,000	A+	2022-2026
6723	400 mm WM on Bronte St between Main Street West and Barton Street	MIL	WM	\$ 1,134,000	A+	2022-2026
6724	300 mm WM on Main Street East East between James Street and Martin Street	MIL	WM	\$ 538,000	A+	2022-2026
6725	300 mm WM on Laurier Avenue between Bronte Street and Commercial Street	MIL	WM	\$ 2,278,000	A+	2022-2026
Subtotal Milton				\$ 164,877,000		
Halton Hills - Acton						
5716	Upgrade piping between Prospect Park Wells and WPP (Zone A9G)	HHACT	WPP	\$ 377,000	A+	2012-2016
5717	Prospect Park WPP Expansion from 2.3 to 3.5 ML/d (Zone A9G)	HHACT	WPP	\$ 3,513,000	C	2012-2016
5718	Acton Reservoir Expansion from 4.5 to 7.0 ML (Construction) (Zone A9G)	HHACT	RES	\$ 3,017,000	A	2012-2016
6437	Acton Well Field Development and Treatment (Zone A9G)	HHACT	WPP	\$ 1,543,000	C	2012-2016
6439	Prospect Park Well Field Upgrades (Zone A9G)	HHACT	WPP	\$ 807,000	C	2012-2016
6590	Acton Supply Standby Well (Zone A9G)	HHACT	WPP	\$ 1,625,000	C	2017-2021
6597	300 mm WM on Reg Rd 25 from new well connection to 640 m North of Wallace St (Zone A9G)	HHACT	WM	\$ 1,069,000	A+	2012-2016
6598	300 mm WM from New Well to Reg Rd 25 (Zone A9G)	HHACT	WM	\$ 444,000	C	2012-2016

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6600	300 mm WM on Reg Rd 25 from new well connection to No. 32 Siderd and on No. 32 Siderd from Reg Rd 25 to 3rd Line Reservoir (Zone A9G)	HHACT	WM	\$ 1,684,000	A+	2022-2026
6604	150mm WM on 3rd Line from 3rd Line Reservoir to No. 32 Siderd and on No. 32 Siderd from 3rd Line to 950 m easterly (Zone A9G)	HHACT	WM	\$ 721,000	A+	2022-2026
6668	Centralized Treatment at 3rd line Reservoir Class EA Study (Zone A9G)	HHACT	Study	\$ 150,000	C	2017-2021
6676	Acton Artificial Recharge Study	HHACT	Study	\$ 500,000	C	2012-2016
6677	Acton Artificial Recharge Capital Works	HHACT	WPP	\$ 6,300,000	C	2012-2016
6695	Centralized Treatment at 3rd line Reservoir (Zone A9G)	HHACT	WPP	\$ 1,541,000	C	2022-2026
Subtotal Halton Hills - Acton				\$ 23,291,000		
Halton Hills - Georgetown						
97	Lindsay Court Well Field Expansion Class EA Study	HHGEO	Study	\$ 350,000	B	2012-2016
4985	1200 mm WM on Trafalgar Rd from Britannia Rd to new Zone 4 Reservoir (Zone M4)	HHGEO	WM	\$ 59,566,000	A+	2012-2016
5061	30 ML Reservoir, near Trafalgar Road and No.5 Siderd (Zone M4)	HHGEO	RES.	\$ 32,440,000	B	2012-2016
5757	Cedarvale Capture Zone Assessment	HHGEO	Study	\$ 300,000	N/A	2012-2016
6440	Cedarvale Well Field Upgrades (Zone G6G)	HHGEO	WPP	\$ 1,375,000	C	2012-2016
6603	400 mm WM on 8th Line from 10th Siderd to existing 400 mm (Zone G6L)	HHGEO	WM	\$ 1,623,000	A+	2017-2021
6606	750 mm WM on Trafalgar from the new Zone 4 Reservoir to approximately 1,650 m north (Zone G6L)	HHGEO	WM	\$ 3,126,000	B	2017-2021
6607	750 mm WM on Trafalgar Rd from 1,650 m north of Zone 4 Reservoir to No 10 Siderd (Zone G6L)	HHGEO	WM	\$ 3,510,000	B	2017-2021
6608	750 mm WM on Trafalgar from 15th Siderd to 22nd Siderd Lake Based Reservoir (Zone G6L)	HHGEO	WM	\$ 12,170,000	B	2017-2021
6609	400 mm WM on 17th Siderd from Trafalgar Rd to Main St (Zone G6L)	HHGEO	WM	\$ 1,744,000	A+	2017-2021
6610	600 mm WM on 10th Siderd from Trafalgar Rd to 8th Line (Zone G6L)	HHGEO	WM	\$ 2,540,000	A+	2017-2021
6611	600 mm WM on No 10 Siderd from 8th Line to 9th Line (Zone G6L)	HHGEO	WM	\$ 2,584,000	A+	2017-2021
6612	600 mm WM on No 10 Siderd from 9th Line to 10th Line (Zone G6L)	HHGEO	WM	\$ 3,049,000	A+	2022-2026
6613	600 mm WM on No 10 Siderd from 10th Line to Adamson St S (Zone G6L)	HHGEO	WM	\$ 1,502,000	A+	2022-2026
6614	600 mm WM on Adamson St from 10th Siderd to Guelph St and on Guelph St from Adamson St to 10th Siderd (Zone G6L)	HHGEO	WM	\$ 2,489,000	B	2022-2026
6615	600 mm WM on No 10 Siderd from Guelph St to Bovaird Dr (Region of Peel) (Zone G6L)	HHGEO	WM	\$ 1,843,000	A+	2022-2026
6654	750 mm WM on Trafalgar Rd from 10th Siderd to approximately 1,700 m north of 10th Siderd (Zone G6L)	HHGEO	WM	\$ 3,763,000	A+	2017-2021
6655	750 mm WM on Trafalgar from 1,700 m north of 10th Siderd to 15th Siderd (Zone G6L)	HHGEO	WM	\$ 3,375,000	A+	2017-2021
6678	Georgetown Artificial Recharge Study	HHGEO	Study	\$ 500,000	C	2012-2016
6679	Georgetown Artificial Recharge Capital Works	HHGEO	WPP	\$ 29,600,000	C	2012-2016
6693	20 ML/d Zone G6L pumping station at Zone 4 Reservoir	HHGEO	P.S.	\$ 9,000,000	B	2017-2021
6694	10 ML Zone G6L Storage at 22nd Siderd	HHGEO	RES.	\$ 10,905,000	B	2017-2021
6696	20 ML/d Zone M5L pumping station at Zone M4L Reservoir	HHGEO	P.S.	\$ 2,000,000	B	2017-2021
6697	20 ML storage expansion at Zone M4 Reservoir	HHGEO	RES.	\$ 20,712,000	A	2017-2021
6732	300 mm replacement on Easement from Rosetta Street to Victoria Street	HHGEO	WM	\$ 507,000	A+	2027-2031
6733	300 mm replacement on Cross Street from Guelph Street to Main Street	HHGEO	WM	\$ 200,000	A+	2027-2031
6734	300 mm in Trafalgar Road between Thompson Drive and Stewartown Rd	HHGEO	WM	\$ 426,000	A+	2027-2031
6735	300 mm replacement on Guelph Street between Mountainview Rd North and Sinclair Ave	HHGEO	WM	\$ 1,424,000	A+	2017-2021
Subtotal Halton Hills - Georgetown				\$ 212,623,000		
Halton Hills - 401 Corridor						
6641	400 mm WM in the 401 growth corridor north of Steeles Ave parallel to Hornby Rd (Zone M5L)	HH401	WM	\$ 1,084,000	A+	2017-2021
6642	400 mm WM in the 401 growth corridor north of Steeles from Hornby Rd to Trafalgar Rd (Zone M5L)	HH401	WM	\$ 1,693,000	A+	2017-2021
6643	400 mm WM in the 401 growth corridor north of Steeles from Trafalgar Rd to approximately 400m east of 8th Line (Zone M5L)	HH401	WM	\$ 2,469,000	A+	2017-2021
6644	400 mm WM in the 401 growth corridor from Steeles Ave to approximately 300 m north (Zone M5L)	HH401	WM	\$ 1,067,000	A+	2017-2021
6645	400 mm WM in the 401 growth corridor north of Steeles Ave. from 1,000 m west of 9th Line to 900 m east of 9th Line (Zone M5L)	HH401	WM	\$ 1,806,000	A+	2022-2026
6646	400 mm WM in the 401 growth corridor from Steeles Ave to approximately 330 m north (Zone M5L)	HH401	WM	\$ 1,038,000	A+	2022-2026
6647	400 mm WM in the 401 growth corridor north of Steeles Ave. from 600 m west of 10th Line to 1,000 m east of 10th Line (Zone M5L)	HH401	WM	\$ 1,998,000	A+	2022-2026
6648	400 mm WM in the 401 growth corridor from Steeles Ave to 340 m north (Zone M5L)	HH401	WM	\$ 1,414,000	A+	2022-2026
Subtotal Halton Hills - 401 Corridor				\$ 12,569,000		
Subtotal Halton Hills				\$ 248,483,000		

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Region-Wide						
4950	SCADA Master Plan Review for Water Purification Plants and Distribution Systems	REG	Study	\$ 200,000	N/A	2012-2016
5725	Water Servicing Master Plan Update	REG	Study	\$ 1,715,000	N/A	2012-2016
5917	SCADA System Network Architecture Improvement Program (REG)	REG	Study	\$ 150,000	N/A	2012-2016
5918	Electrical Utility Meter Monitoring Installation Program (SCADA) (REG)	REG	Study	\$ 190,000	N/A	2012-2016
6189	Water Supply Capacity Annual Monitoring Report	REG	Study	\$ 450,000	N/A	2012-2021
6190	Water Distribution System Analysis	REG	Study	\$ 2,200,000	N/A	2012-2031
6685	Bulk Water Stations on Existing Sites	REG	P.S.	\$ 1,868,000	A	2012-2016
6686	Bulk Water Stations on New Sites	REG	P.S.	\$ 3,267,000	B	2012-2016
Subtotal Region-Wide				\$ 10,040,000		
TOTAL				\$ 952,593,000		

Legend

Existing Infrastructure

- ▲ Water Pumping Station
- Water Well
- Water Standpipe
- Water Reservoir
- ⊛ Water Purification Plant
- ⊞ Elevated Water Tower
- - - Existing Watermain
- Watermain

Previously Approved Infrastructure

- ▲ Water Pumping Station
- Water Well
- ⊛ Water Purification Plant
- Water Reservoir

Proposed/Upgrade Infrastructure

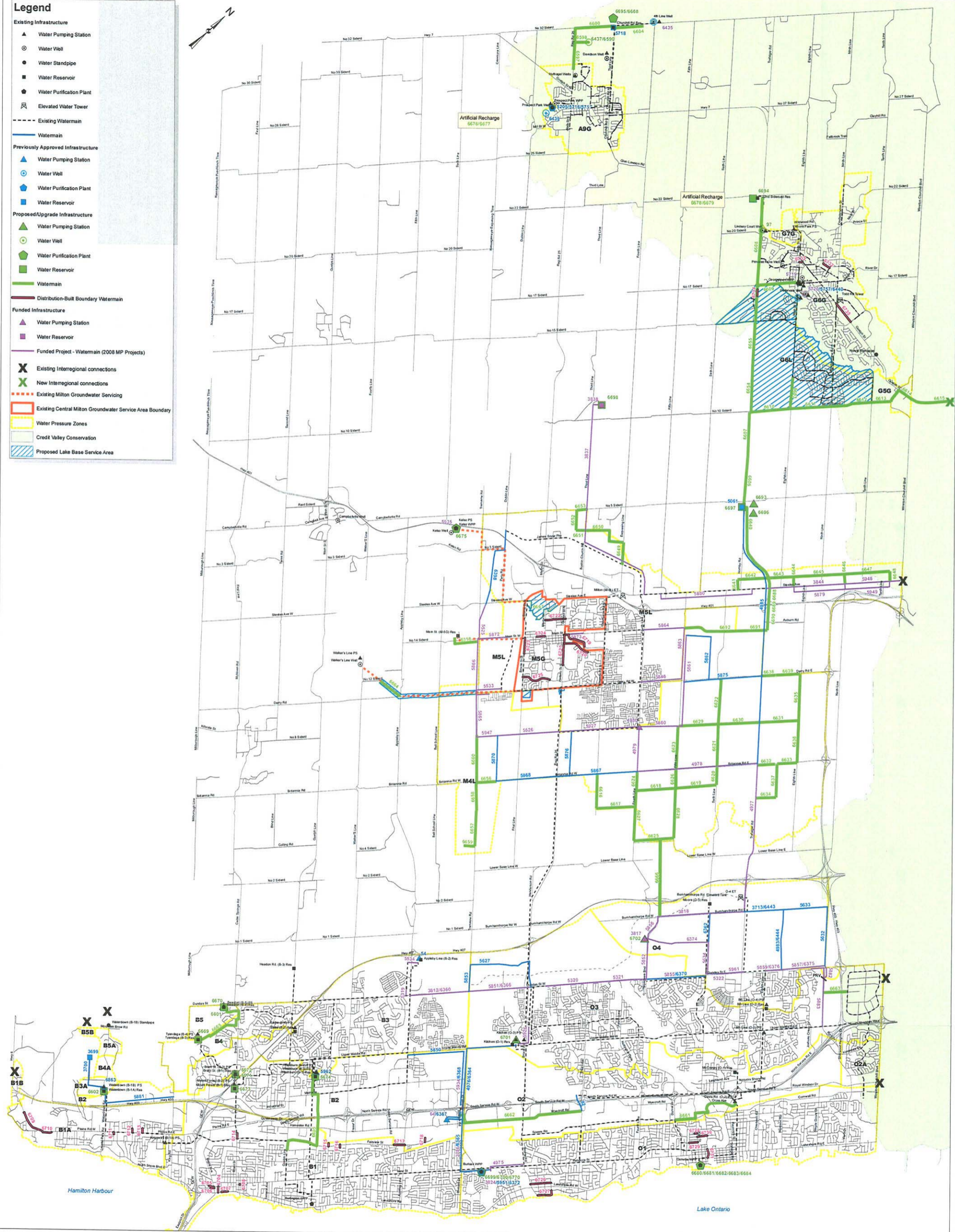
- ▲ Water Pumping Station
- Water Well
- ⊛ Water Purification Plant
- Water Reservoir
- Watermain
- - - Distribution-Built Boundary Watermain

Funded Infrastructure

- ▲ Water Pumping Station
- Water Reservoir
- Funded Project - Watermain (2008 MP Projects)

Other Features

- X Existing Interregional connections
- X New Interregional connections
- ⋯ Existing Milton Groundwater Servicing
- ⬡ Existing Central Milton Groundwater Service Area Boundary
- ⬢ Water Pressure Zones
- ⬣ Credit Valley Conservation
- ⬤ Proposed Lake Base Service Area



Meeting Agenda

Date of Meeting	Sept 8, 2011	Start Time	10.00 am	Project Number	60114062
Project Name	Sustainable Halton (W 2501A / S2500)				
Location	NEC office, 232 Guelph Street, Georgetown				
Regarding	Water and Wastewater Master Plan Consultation				

Discussion Items

Item	Topic
1.	Overview of the Sustainable Halton Master Plan process
2.	Project review and feedback
3.	Confirm review requirements
4.	Master Plan Filing Schedule

Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Oakville						
3706	600 mm WWM crossing Dundas St and 600mm WWM on Dundas St from 900m west of Colonel William Parkway to Colonel William Parkway	OAK	WWM	\$ 4,005,000	A+	2012-2016
4994	600 mm WWM on new North Oakville road from Burnhamthorpe Rd to Dundas Street	OAK	WWM	\$ 5,880,000	A+	2012-2016
4995	New 37 ML/d WWPS on Dundas St E approximately 550m west of Ninth Line (428 L/s)	OAK	WWPS	\$ 6,935,000	B (Satisfied through 2008 MP)	2012-2016
5062	600 mm WWM on new North Oakville road from Burnhamthorpe Rd West to Dundas Street	OAK	WWM	\$ 2,579,000	A+	2012-2016
5063	525 mm WWM on new North Oakville road from Burnhamthorpe Rd West to Dundas Street	OAK	WWM	\$ 2,087,000	A+	2012-2016
5095	Mid Haldon WWTP Odour Control Studies (OAK) - \$87,000/year for 20 years	OAK	STUDY	\$ 1,740,000	N/A	2012-2031
5945	Mid-Haldon new effluent sewer/outfall - Construction	OAK	WWTP	\$ 90,000,000	3808 (EA/D), EA Completed	2012-2016
6215	600 mm WWM on Noyagawa Blvd from Burnhamthorpe Rd to new internal North Oakville road, north of Dundas St	OAK	WWM	\$ 4,000,000	A+	2012-2016
6380	2400 mm WWM on new 3rd Line from 700 m north of Dundas St to Dundas St - Construction	OAK	WWM	\$ 7,632,000	3794 (EA/D), EA Completed	2012-2016
6381	2400 mm WWM on new road alignment from Lower Base Line to 3rd Line (700 m north of Dundas St) - Construction	OAK	WWM	\$ 49,923,000	3794 (EA/D), EA Completed	2012-2016
6383	Mid Haldon WWTP Phase 4/5 expansion from 75 ML/d to 125 ML/d (OAK) - Construction	OAK	WWTP	\$ 120,000,000	3808 (EA/D), EA Completed	2012-2016
6384	Mid Haldon North Pumping Station Expansion - Construction	OAK	WWPS	\$ 13,500,000	3808 (EA/D), EA Completed	2012-2016
6481	450 mm WWM on internal road parallel to Dundas St from west of 16 Mile Creek Bridge to 190 m east of Proudfoot Trail	OAK	WWM	\$ 296,000	A+	2012-2016
6546	Construction of approx 100 m of new local sewer to eliminate Shepherd Rd WWPS sewer sized adequately to accommodate 2031 flows of approximately 21.2 L/s	OAK	WWPS	\$ 400,000	A+	2027-2031
6551	525 mm WWM on new North Oakville road from Burnhamthorpe Rd to Project #5062	OAK	WWM	\$ 1,519,000	A+	2012-2016
6588	Mid-Haldon WWTP expansion from 125 ML/d to 175 ML/d	OAK	WWTP	\$ 93,304,000	C	2012-2016
6526	450 mm WWM on service Rd for West River WWPS from West River Street to WWPS	OAK	WWM	\$ 141,000	A+	2017-2021
6527	450 mm WWM on service road to Marine Drive WWPS from Marine Drive	OAK	WWM	\$ 27,000	A+	2017-2021
6528	31.9 L/s upgrade of West River WWPS	OAK	WWPS	\$ 467,000	A+	2012-2016
6529	375 mm WWM on Oak Park from Dundas Street East to Central Park then along Central Park to Georgian Drive	OAK	WWM	\$ 838,000	A+	2012-2016
6530	300 mm WWM on Kerr Street between Forster Park and Rebecca Street	OAK	WWM	\$ 864,000	A+	2017-2021
6531	250 mm WWM on Chisholm/Rebecca Street between Forsyth Street and Chisholm Street on Rebecca Street and on Chisholm Street between Rebecca Street and 45 m north of Lakeshore Rd West	OAK	WWM	\$ 218,000	A+	2022-2026
6532	525 mm WWM on Stewart Street between Felan Drive and Kerr Street	OAK	WWM	\$ 360,000	A+	2027-2031
6534	375 mm WWM on Lyons Lane between Cross Ave and due north up Lyons Lane 150 m	OAK	WWM	\$ 206,000	A+	2022-2026
6535	450 mm WWM on Trafalgar Rd between 10 m north of Inglehart Street North and over Cornwall Rd and railway to connect to Cross Ave	OAK	WWM	\$ 1,191,000	A+	2022-2026
6536	525 mm WWM on Cross Avenue between Argus Rd and Lyons Lane	OAK	WWM	\$ 1,902,000	A+	2022-2026
6537	675 mm WWM on Trafalgar Rd between Spruce Street until 60 m north of Cornwall Rd where it follows the side road crossing the railway line and through the Go Transit Stn car Park and heads due west and north up Argus Rd for 60 m	OAK	WWM	\$ 3,276,000	A+	2022-2026
6538	Upgraded gravity sewer within UGC on North Service Rd from Truman Ave to east of Pearson Dr	OAK	WWM	\$ 472,000	A+	2012-2016
6540	Twin 900 mm WWM on Trafalgar Rd and Randall Street/Rebecca Street from Lawson Street to Wilson Street	OAK	WWM	\$ 8,574,000	A+	2012-2016
6541	Deep Trunk Sewer on Rebecca St and Lakeshore Rd W from Wilson St to Oakville SW WWTP	OAK	WWM	\$ 45,502,000	B	2012-2016
6542	Decommissioning of 5 WWPSs	OAK	WWPS	\$ 500,000	A+	2012-2016
6543	Gravity Sewers from Decommissioned WWPS's to New Deep Trunk	OAK	WWM	\$ 1,311,000	A+	2012-2016
6544	6 L/s upgrade of Bronte Yacht Club WWPS	OAK	WWPS	\$ 87,000	A+	2012-2016
Subtotal Oakville				\$ 469,736,000		
Burlington						
5907	300 mm WWM North Aldershot Servicing	BURL	WWM	\$ 4,268,000	Being Satisfied Under Separate Planning Study	2012-2016
6143	300mm WWM on North Service Rd from 440m east of Waterdown Rd to 360m north of North Service Rd - Part of 5907	BURL	WWM	\$ 500,000	A+	2012-2016
6545	41 L/s upgrade of Junction Street WWPS	BURL	WWPS	\$ 598,000	A+	2012-2016
6547	23 L/s upgrade of Grandview Avenue WWPS	BURL	WWPS	\$ 335,000	A+	2012-2016
6482	300 mm WWM on Plains Rd West from Grand View heading due north west	BURL	WWM	\$ 128,000	A+	2012-2016
6483	325 mm WWM on Plains Rd West from Grand View heading due north west	BURL	WWM	\$ 82,000	A+	2012-2016
6484	375 mm WWM on Plains Rd West from Grand View heading due north west	BURL	WWM	\$ 91,000	A+	2012-2016
6485	375 mm WWM on Plains Rd West between Howard Rd and entrance to Spring Gardens	BURL	WWM	\$ 588,000	A+	2017-2021
6486	200 mm WWM on Plains Rd West between Howard Rd and entrance to Spring Gardens	BURL	WWM	\$ 61,000	A+	2017-2021
6487	525 mm WWM on Plains Rd West between Howard Rd and entrance to Spring Gardens	BURL	WWM	\$ 2,287,000	A+	2017-2021
6488	250 mm WWM on Guelph Line between Woodward and 120m south of Prospect Street	BURL	WWM	\$ 331,000	A+	2017-2021
6489	450 mm WWM on Appleby Line between Fairview Street and 151 m south of Harvester Rd	BURL	WWM	\$ 1,445,000	A+	2017-2021

Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6490	300 mm WWM on Pearl Street between Old Lakeshore Rd and Pine Street	BURL	WWM	\$ 195,000	A+	2017-2021
6491	525 mm WWM on Lakeshore Rd between Old Lakeshore Rd entrance and Torrance Street	BURL	WWM	\$ 133,000	A+	2017-2021
6492	825 mm WWM on Maple Avenue East Between Lakeshore Rd and Fairview Street	BURL	WWM	\$ 6,136,000	A+	2017-2021
Subtotal Burlington				\$ 17,176,000		
Milton						
5066	750 mm WWM on Fifth Line from new BPll WWPS (IPFS #5896) to Louis St Laurent Ave	MIL	WWM	\$ 1,721,000	A+	2012-2016
5067	900 mm WWM on James Snow Parkway from Louis St Laurent Ave to Britannia Rd and 1200 mm WWM on Britannia Rd from Louis St Laurent Ave to Britannia Rd /Thompson Rd WWPS	MIL	WWM	\$ 38,053,000	A+	2012-2016
5068	3 x 450 mm WWFM from new WWPS (IPFS #5069) to 300 m east of R.R. 25 (Incl. portion of WWFM under 16 Mile Creek) - Design	MIL	WWFM	\$ 704,000	B (Satisfied through 2008 MP)	2012-2016
5069	New 86 ML/d WWPS on Britannia Rd between 3rd Line and 16 Mile Creek (1000 L/s) - Design	MIL	WWPS	\$ 1,633,000	B (Satisfied through 2008 MP)	2012-2016
5900	675 mm WWM on Britannia Rd from 275 m west of Bronie Rd to 300 m west of Regional Rd 25	MIL	WWM	\$ 2,272,000	A+	2012-2016
5905	375 mm WWM on Britannia Rd from east of Tremaine Rd to Project #5906 on new South Milton road alignment	MIL	WWM	\$ 535,000	A+	2012-2016
5906	600 mm WWM on new Milton South road alignment from Britannia Rd to Tremaine Rd WWPS	MIL	WWM	\$ 2,015,000	A+	2012-2016
5912	200 - 375 mm WWM on new Milton Phase 3 road alignment south to Britannia Rd	MIL	WWM	\$ 922,000	A+	2012-2016
6114	450 mm WWM on new road from west of Thompson Rd to Thompson Rd and 525 mm WWM on Thompson Rd from north of Britannia Rd to Britannia Rd	MIL	WWM	\$ 1,602,000	A+	2012-2016
6115	3 x 450 mm WWFM from new WWPS (IPFS #5069) to 300 m east of R.R. 25 (Incl. portion of WWFM under 16 Mile Creek) - Construction	MIL	WWFM	\$ 6,121,000	B (Satisfied through 2008 MP)	2012-2016
6116	750 mm WWM on Louis St Laurent from 5th Line to James Snow Pkwy	MIL	WWM	\$ 3,067,000	A+	2012-2016
6382	2100mm WWM on Regional Rd 25 from Boyne WWPS to Lower Base Line - Construction	MIL	WWM	\$ 14,755,000	3867 (EA/D), EA Completed	2012-2016
6427	New 86 ML/d WWPS on Britannia Rd between 3rd Line and 16 Mile Creek (1000 L/s) - Construction	MIL	WWPS	\$ 14,193,000	B	2012-2016
6497	300 mm WWM on Derry Rd from 8th Line to Trafalgar Rd	MIL	WWM	\$ 828,000	A+	2017-2021
6498	450 mm WWM on new road from 8th Line to Trafalgar Rd	MIL	WWM	\$ 1,544,000	A+	2017-2021
6499	300 mm WWM on Britannia Rd from 8th Line to Trafalgar/ Britannia WWPS	MIL	WWM	\$ 1,074,000	A+	2017-2021
6500	600 mm WWM on 4th Line from new road to Lower Base Line WWPS	MIL	WWM	\$ 4,332,000	A+	2022-2026
6501	450 mm WWM on 4th Line from south of Britannia Rd to new road	MIL	WWM	\$ 3,481,000	A+	2022-2026
6502	525 mm WWM on Thompson Rd and new internal road from south of Britannia to 4th Line	MIL	WWM	\$ 2,357,000	A+	2022-2026
6503	300 mm WWM on 8th Line from north of Derry Rd to Derry Rd	MIL	WWM	\$ 502,000	A+	2022-2026
6504	450 mm WWM on 8th Line from north of new road to new road	MIL	WWM	\$ 808,000	A+	2022-2026
6505	300 mm WWM on 8th Line from north of Britannia Rd to Britannia Rd	MIL	WWM	\$ 397,000	A+	2022-2026
6507	1200 mm WWM on Britannia Rd to 5th Line to James Snow Pkwy	MIL	WWM	\$ 3,138,000	A+	2017-2021
6508	Decommissioning of HH WWPS #3, connection to new 8th Line trunk sewer	MIL	WWPS	\$ 500,000	A+	2017-2021
6550	525 mm WWM on Louis St Laurent Extension from Tremaine Rd to Tremaine Rd WWPS	MIL	WWM	\$ 1,430,000	A+	2012-2016
6552	375 mm WWM on new road alignment in Milton Education Village from from 950 m south of Louis St Laurent extension to Louis St Laurent extension	MIL	WWM	\$ 2,918,000	A+	2017-2021
6553	450 mm WWM on new road in Milton Education Village from 600m north of Louis St Laurent extension to Louis St Laurent extension and on Louis St Laurent extension from 340m west of Tremaine Rd to Tremaine Rd	MIL	WWM	\$ 844,000	A+	2017-2021
6554	600 mm WWM on Lower Base Line from WWFM discharge approx 650 m west of 1st Line to Regional Rd 25	MIL	WWM	\$ 7,118,000	A+	2022-2026
6555	17 ML/d WWPS on Tremaine Rd (200 L/s)	MIL	WWPS	\$ 6,476,000	B	2022-2026
6556	Twinned 300 mm WWFM from Tremaine WWPS to Lower Base Line, approx 650 m west of 1st Line	MIL	WWFM	\$ 2,568,000	A+	2022-2026
6557	600 mm WWM on Tremaine Rd from approximately 880 m north of South Tremaine Rd WWPS to South Tremaine Rd WWPS	MIL	WWM	\$ 3,310,000	A+	2022-2026
6558	525 mm WWM on Tremaine Rd from approx 1500m north of South Tremaine WWPS to approx 880 m north of South Tremaine WWPS	MIL	WWM	\$ 2,700,000	A+	2022-2026
6559	450 mm WWM on Tremaine Rd from Britannia Rd to 1700 m south of Britannia Rd	MIL	WWM	\$ 4,154,000	A+	2022-2026
6560	525 mm WWM on James Snow Pkwy and new road alignment from Steeles Ave to Esquensing Line	MIL	WWM	\$ 1,931,000	A+	2017-2021
6561	375 mm WWM on new road and Britannia Rd from Milton Education Village to Tremaine Rd	MIL	WWM	\$ 488,000	A+	2022-2026
6562	450 mm WWM on new road from 440 m north of Derry Rd to Derry Rd and 525 mm WWM on Derry Rd from 725 m east of 5th Line to 5th Line	MIL	WWM	\$ 1,117,000	A+	2012-2016
6563	Decommissioning of temporary FM (IPFS #6112)	MIL	WWFM	\$ 1,000,000	A+	2012-2016
6564	525 mm WWM on new alignment from Esquensing Line to 3rd Line	MIL	WWM	\$ 2,953,000	A+	2017-2021
6571	104 ML/d WWPS on Trafalgar Rd/ Britannia Rd (1200 L/s)	MIL	WWPS	\$ 18,532,000	B	2017-2021
6573	1050 mm WWM 401 Crossing from Steeles Ave to Auburn Rd	MIL	WWM	\$ 8,499,000	B	2017-2021
6574	1050 mm WWM on Auburn Rd from Hwy 401 crossing easement to Trafalgar Rd	MIL	WWM	\$ 2,923,000	B	2017-2021
6575	1050 mm WWM on Trafalgar Rd from Auburn Rd to Derry Rd	MIL	WWM	\$ 6,623,000	A+	2017-2021
6576	1050 mm WWM on Trafalgar Rd from Derry Rd to Golf Course	MIL	WWM	\$ 4,269,000	A+	2017-2021
6577	1050 mm WWM on Trafalgar Rd from Golf Course to Britannia Rd / Trafalgar Rd WWPS	MIL	WWM	\$ 7,561,000	A+	2017-2021
6578	525 WWM on Trafalgar Rd from south of Britannia Rd to Britannia Rd/ Trafalgar Rd WWPS	MIL	WWM	\$ 4,105,000	A+	2022-2026

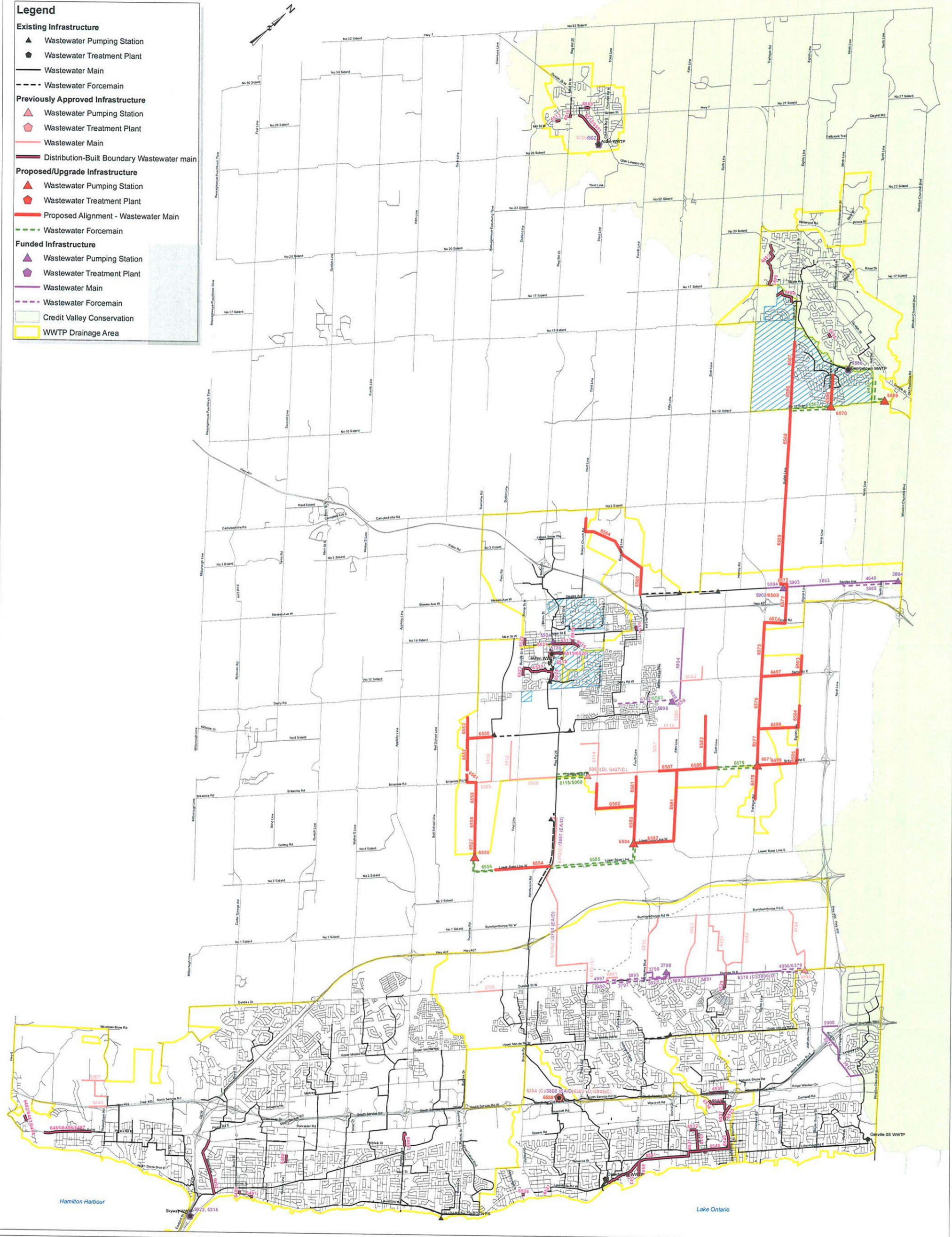
Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6579	Twinned 750 mm WWFM on Britannia Rd from Trafalgar Rd to 6th Line	MIL	WWFM	\$ 11,288,000	A+	2017-2021
6580	1200 mm WWM on Britannia Rd from 6th Line to 5th Line	MIL	WWM	\$ 7,596,000	A+	2017-2021
6581	1350 mm WWM on 5th Line from Britannia Rd to Lower Base Line	MIL	WWM	\$ 14,663,000	A+	2022-2026
6582	1350 mm WWM on Lower Base Line from 5th Line to 4th Line	MIL	WWM	\$ 9,356,000	A+	2022-2026
6583	525 mm WWM on new road from 1400 m north of Britannia Rd to Britannia Rd	MIL	WWM	\$ 5,356,000	A+	2017-2021
6584	156 ML/d WWPS at Lower Base Line and 4th Line (1805 L/s)	MIL	WWPS	\$ 26,403,000	B	2022-2026
6585	Twinned 900 mm WWFM from Lower Base Line to RR 25	MIL	WWFM	\$ 22,331,000	C	2017-2021
6514	450 mm WWM on Maple Ave between Main Street East and Turner Drive	MIL	WWM	\$ 234,000	A+	2012-2016
6515	300 mm WWM on Childs Drive between Ontario Street South and the south entrance of Saiok Crescent	MIL	WWM	\$ 416,000	A+	2017-2021
6516	375 mm WWM on Nipissing Rd between Milton Mall entrance and Childs Drive	MIL	WWM	\$ 207,000	A+	2017-2021
6517	450 mm WWM on Oak Street between Charles Street and Ontario Street South	MIL	WWM	\$ 1,043,000	A+	2012-2016
6518	250 mm WWM on Donald Campbell Avenue between Ontario Street South and Cemetery Rd	MIL	WWM	\$ 90,000	A+	2022-2026
6519	375 mm WWM between 50 m south of Wakefield Rd and the southern tip of Fulton Street	MIL	WWM	\$ 354,000	A+	2022-2026
6520	525 mm WWM between 50 m south of Wakefield Rd and the southern tip of Fulton Street	MIL	WWM	\$ 135,000	A+	2022-2026
6521	750 mm WWM linking Oak Street east to Oak Street West	MIL	WWM	\$ 23,000	A+	2022-2026
6522	250 mm on Bronte Street West between Main Street West and Robert Street	MIL	WWM	\$ 299,000	A+	2027-2031
6523	450 mm WWM on Bronte Street South between Anne Blvd and 67 m north of Laurier Ave entrance	MIL	WWM	\$ 652,000	A+	2027-2031
6524	600 mm WWM on Williams Ave/Commercial Street from southern corner of Williams Ave and south down Commercial Street to Laurier Ave	MIL	WWM	\$ 908,000	A+	2017-2021
6525	750 mm WWM on Anne Blvd between Bronte Street South and down along the length of Meadowbrook Drive and across Bronte Meadows Park to join Williams Ave at southern corner	MIL	WWM	\$ 2,419,000	A+	2022-2026
Subtotal Milton				\$ 303,846,000		
Halton Hills - Acton						
5726	Acton WWTP Expansion to 7 ML/d	HHACT	WWTP	\$ 22,890,000	EA Complete	2012-2016
6509	450 mm WWM on Mill Street between Wilbur Street North and Wallace Street	HHACT	WWM	\$ 262,000	A+	2012-2016
6510	300 mm WWM on Main Street South between Cobblehill Rd and Brock Street	HHACT	WWM	\$ 148,000	A+	2017-2021
6511	600 mm WWM from Elgin Street South along Black Creek alignment to Tanners Drive	HHACT	WWM	\$ 465,000	B (Separate EA Study Required)	2017-2021
6512	525 mm WWM from Elgin Street South along Black Creek alignment to Tanners Drive	HHACT	WWM	\$ 1,594,000	B (Separate EA Study Required)	2022-2026
6513	250 mm WWM on Storey Drive between Kingham and Cobblehill Rd	HHACT	WWM	\$ 196,000	A+	2022-2026
6565	TP Offset Program	HHACT	STUDY	\$ 3,300,000	A+	2012-2016
6566	Black Creek Monitoring Program	HHACT	STUDY	\$ 550,000	A+	2012-2016
Subtotal Halton Hills - Acton				\$ 29,405,000		
Halton Hills - Georgetown						
6493	300 mm WWM on Atwood Ave/Murno Circle and existing sewer alignment from Berton Blvd to Maple Ave	HHGEO	WWM	\$ 2,060,000	A+	2017-2021
6494	300 mm WWM on Arboglen Drive and across North Halton Golf Course towards Maple Ave	HHGEO	WWM	\$ 280,000	B (Separate EA Study Required)	2017-2021
6495	300 mm WWM on Delrex Blvd between Irwin Crescent and the southern entrance to Fauldon Drive	HHGEO	WWM	\$ 140,000	A+	2017-2021
6496	Twinned 250 mm WWFM from Norval WWPS to Argyll Rd	HHGEO	WWFM	\$ 886,000	A+	2022-2026
6506	675 mm WWM on 9th Line from Argyll Rd to 10th Side Rd - Georgetown South Connection	HHGEO	WWM	\$ 3,955,000	A+	2017-2021
6567	Twinned 300 mm WWFM on 10th Side Rd from 9th Ln to 8th Ln	HHGEO	WWFM	\$ 847,000	A+	2017-2021
6568	900 mm WWM on 8th Line from 10th Side Rd to 5th Side Rd	HHGEO	WWM	\$ 5,891,000	A+	2017-2021
6569	900 mm WWM on 8th Line from 5th Side Rd to Steeles Ave	HHGEO	WWM	\$ 5,869,000	A+	2017-2021
6570	24 ML/d WWPS at 10 Side Rd/9th Line (275 L/s)	HHGEO	WWPS	\$ 6,795,000	B	2017-2021
6586	750 mm WWM on 8th Line from Argyll Rd to 10th Side Rd	HHGEO	WWM	\$ 1,782,000	A+	2017-2021
6587	600 mm WWM on 8th Line from Miller Rd to Argyll Rd	HHGEO	WWM	\$ 1,420,000	A+	2017-2021
6589	3 ML/d WWPS on 10th Side Rd in Norval (35 L/s)	HHGEO	WWPS	\$ 684,000	B	2022-2026
Subtotal Halton Hills - Georgetown				\$ 30,609,000		
Halton Hills - 401 Corridor						
6572	1050 mm WWM on Steeles Ave from 8th Line to Crossing Easement	HH401	WWM	\$ 1,755,000	B	2017-2021
Subtotal Halton Hills - 401 Corridor				\$ 1,755,000		
Subtotal Halton Hills				\$ 61,769,000		

Attachment 2 - Wastewater Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Region-Wide						
4810	Long Term Biosolids Management and Implementation Plan	REG	STUDY	\$ 20,780,000	N/A	2012-2016
5729	Halton Wastewater Master Plan (REG) - \$880,000 in 2015, 2020, 2025 and 2030	REG	STUDY	\$ 3,520,000	N/A	2012-2031
6187	Wastewater Treatment Capacity Annual Monitoring Report (REG) - \$45,000/year for 20 years	REG	STUDY	\$ 900,000	N/A	2012-2031
6188	Wastewater Collection System Analysis (REG) - \$110,000/year for 20 years	REG	STUDY	\$ 2,200,000	N/A	2012-2031
Subtotal Region-Wide				\$ 27,400,000		
TOTAL				\$ 879,929,000		

- Legend**
- Existing Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Wastewater Main
 - - - Wastewater Forcemain
- Previously Approved Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Wastewater Main
 - Distribution-Built Boundary Wastewater main
- Proposed/Upgrade Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Proposed Alignment - Wastewater Main
 - - - Wastewater Forcemain
- Funded Infrastructure**
- ▲ Wastewater Pumping Station
 - Wastewater Treatment Plant
 - Wastewater Main
 - - - Wastewater Forcemain
- Credit Valley Conservation
- WWTP Drainage Area



Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Oakville						
82	400 mm Zone 2 WM on 3rd Line from Wycroft Rd to North Service Road (Zone O2)	OAK	WM	\$ 982,000	B (Satisfied though 2008 MP)	2017-2021
3713	400mm WM on Burnhamthorpe Rd from Trafalgar Rd to new North Oakville road. (Zone O4) (Design)	OAK	WM	\$ 317,000	A+	2012-2016
4983	400 mm WM on new North Oakville road from Burnhamthorpe Rd to Dundas St (Zone O4) (Design)	OAK	WM	\$ 424,000	A+	2012-2016
5627	600 mm WM through North Oakville Lands from Tremaine Rd to Bronte Rd (Zone O3)	OAK	WM	\$ 7,238,000	A+	2012-2016
5632	300 mm WM on 9th Line from Burnhamthorpe Rd to Dundas St (Zone O4)	OAK	WM	\$ 2,254,000	A+	2012-2016
5633	300 mm WM on Burnhamthorpe Rd from new North Oakville road to 9th Line (Zone O4)	OAK	WM	\$ 2,342,000	A+	2012-2016
5853	600 mm WM on Tremaine Rd from Dundas St to approximately 950 m north (North Oakville Lands) (Zone O3)	OAK	WM	\$ 1,330,000	A+	2012-2016
5951	Design of Burloak WPP Phase 2 Expansion from 55 to 165 ML/d.	OAK	WPP	\$ 11,327,000	C	2012-2016
6362	600mm in North Oakville along 6th Line to Burnhamthorpe Rd (Zone O4)	OAK	WM	\$ 2,005,000	A+	2012-2016
6364	1500 mm WM from Zone 2 Burloak PS to Kitchen Reservoir (Zone O1) (Construction)	OAK	WM	\$ 53,062,000	C	2012-2016
6368	1050 mm WM from Burloak Pumping Station north on Burloak Dr to Upper Middle Rd (Zone B2) (Construction)	OAK	WM	\$ 6,515,000	A+	2012-2016
6370	750 mm WM on Dundas St from 6th Line to WM #5321 at Dundas St and Neyagawa Blvd (Construction) (Zone O3)	OAK	WM	\$ 5,030,000	A+	2012-2016
6372	Construction of Burloak WPP Phase 2 Expansion from 55 to 165 ML/d	OAK	WPP	\$ 98,433,000	C	2012-2016
6443	400 mm WM on Burnhamthorpe Rd from Trafalgar Rd to new North Oakville road (Zone O4) (Construction)	OAK	WM	\$ 1,828,000	A+	2012-2016
6444	400 mm WM from Burnhamthorpe Rd to Dundas St on new North Oakville road (Zone O4) (Construction)	OAK	WM	\$ 2,449,000	A+	2012-2016
6661	900 mm Second Feedermain to Davis Road Booster Pumping Station (Zone O1)	OAK	WM	\$ 14,171,000	B	2012-2016
6662	400 mm WM on Wycroft Rd from Burloak Dr to 3rd Line (Zone O2)	OAK	WM	\$ 10,973,000	A+	2017-2021
6663	400 mm WM from 9th Line on easement to Bristol Circle (Zone O3)	OAK	WM	\$ 3,008,000	B	2012-2016
6680	Oakville WPP Intake Pipe Extension - Design	OAK	WPP	\$ 1,500,000	C	2012-2016
6681	Oakville WPP Intake Pipe Extension - Construction	OAK	WPP	\$ 8,500,000	C	2017-2021
6682	Class EA Study of Oakville WPP Expansion from 109 to 130 ML/d	OAK	WPP	\$ 1,000,000	C	2012-2016
6683	Design of Oakville WPP Expansion from 109 to 130 ML/d.	OAK	WPP	\$ 3,464,000	C	2012-2016
6684	Construction of Oakville WPP Expansion from 109 to 130 ML/d	OAK	WPP	\$ 20,803,000	C	2012-2016
6702	40 ML/d expansion at the North Oakville Zone O4 Pumping Station (existing site)	OAK	P.S.	\$ 4,536,000	B	2022-2026
6726	300 mm WM on Sovereign between Bronte Rd and East Street	OAK	WM	\$ 2,652,000	A+	2017-2021
6727	300 mm WM on Ontario/East Street between Bronte Rd and Marine Drive	OAK	WM	\$ 2,060,000	A+	2017-2021
6728	300 mm WM on Cowan Between Kerr Street and Ingleswood Drive	OAK	WM	\$ 611,000	A+	2022-2026
6729	300 mm WM on Deane between Kerr Street and Felan Ave	OAK	WM	\$ 981,000	A+	2022-2026
6730	300 mm WM on Normandy between Kerr Street and Queen Mary Drive	OAK	WM	\$ 651,000	A+	2027-2031
6731	300 mm WM on Forsythe between Rebecca Street and Burnet Street	OAK	WM	\$ 577,000	A+	2027-2031
Subtotal Oakville				\$ 271,023,000		
Burlington						
54	30 ML/d Pumping Station at Appleby Line Reservoir (Zone B3)	BUR	P.S.	\$ 10,274,000	B (Satisfied though 2008 MP)	2012-2016
3699	4.5 ML North Aldershot in ground Reservoir (Zone B3A)	BUR	P.S.	\$ 5,072,000	Being Satisfied Under Separate Planning Study	2012-2016
3700	400 mm WM from Waterdown Reservoir pumping station to new North Aldershot Reservoir (Zone B3A)	BUR	WM	\$ 2,279,000	Being Satisfied Under Separate Planning Study	2012-2016
5850	1050 mm WM on Upper Middle Rd from Burloak Dr west to Appleby Line (Zone B2) (Construction)	BUR	WM	\$ 8,514,000	A+	2012-2016
5881	400 mm WM from Waterdown pumping station along North Service Rd to King Rd (Zone B2)	BUR	WM	\$ 6,598,000	B (Satisfied though 2008 MP)	2012-2016
6385	1800 mm WM from Burloak WPP to Burloak Zone 2 Booster Pumping Station (Zone O1) (Construction)	BUR	WM	\$ 17,460,000	C	2012-2016
6367	120 ML/d Burloak Pumping Station Construction, Phase 1, 50 ML/D (Zone B2)	BUR	P.S.	\$ 12,522,000	B	2012-2016
6601	7.8 ML/d expansion at Beaufort Pumping Station (new site) (Zone B5)	BUR	P.S.	\$ 2,015,000	B	2012-2016
6602	7.5 ML storage expansion at Waterdown Reservoir (existing site) (Zone B1A)	BUR	RES.	\$ 7,767,000	A	2017-2021
6605	750 mm WM Second feed to Washburn Reservoir (Zone B1)	BUR	WM	\$ 24,096,000	A+	2012-2016
6665	400 mm WM between Tyandanga Reservoir and Beaufort Reservoir (Zone B4)	BUR	WM	\$ 6,602,000	B	2012-2016
6669	4.5 ML storage expansion at Tyandanga Reservoir (existing site) (Zone B3)	BUR	RES.	\$ 4,660,000	A	2017-2021
6670	2.5 ML storage expansion at Beaufort Reservoir Expansion (new site) (Zone B4)	BUR	RES.	\$ 3,275,000	B	2012-2016

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6671	6.6 ML/d expansion at Brant St Pumping Station (existing building) (Zone B3)	BUR	P.S.	\$ 735,000	A	2012-2016
6672	11.5 ML storage expansion at Brant St Reservoir (existing site) (Zone B1)	BUR	RES.	\$ 12,321,000	A	2017-2021
6673	5.5 ML storage expansion at Mount Forest Reservoir (existing site) (Zone B1)	BUR	RES.	\$ 5,696,000	A	2017-2021
6674	13.5 ML storage expansion at Washburn Reservoir (existing site) (Zone B1)	BUR	RES.	\$ 13,980,000	A	2012-2016
6699	Burloak Treatment Plant Expansion by 55 ML/d (Design) From 165 ML/d to 220 ML/d	BUR	WPP	\$ 11,849,000	C	2022-2026
6700	Burloak Treatment Plant Expansion by 55 ML/d (Construction) From 165 ML/d to 220 ML/d	BUR	WPP	\$ 76,008,000	C	2022-2026
6701	Kilchen Zone O3 Pumping Station expansion by 80 ML/d	BUR	P.S.	\$ 12,000,000	B	2022-2026
6770	Burloak Treatment Plant Expansion by 55 ML/d (Class EA Study) From 165 ML/d to 220 ML/d	BUR	WPP	\$ 1,323,000	C	2017-2021
6863	Waterdown Road Pumping Station Expansion (Zones B2, B3A & B5A)	BUR	P.S.	\$ 5,265,000	B	2012-2016
6704	200 mm WM on Brock Ave from Elgin Street to Lakeshore Rd	BUR	WM	\$ 325,000	A+	2017-2021
6705	200 mm WM on Regina Drive from Maple Avenue to Ecole Renaissance Schoolyard	BUR	WM	\$ 271,000	A+	2017-2021
6706	250 mm WM on Bellview Rd from Maple Avenue to end	BUR	WM	\$ 309,000	A+	2017-2021
6707	300 mm WM on Lakeshore Rd between Nelson Avenue and Burlington Avenue	BUR	WM	\$ 869,000	A+	2022-2026
6708	300 mm WM on Elizabeth Street from James Street to approximately 15 m north	BUR	WM	\$ 35,000	A+	2022-2026
6709	300 mm WM on Plains Rd East from north of Grandview Rd to twinned section on Plains	BUR	WM	\$ 2,678,000	A+	2012-2016
6710	300 mm WM on Plains Road East (Twinning adjacent to 6709)	BUR	WM	\$ 626,000	A+	2012-2016
6711	300 mm WM on Birchwood Avenue from Plains Rd East southwards towards Fairwood Place East	BUR	WM	\$ 104,000	A+	2017-2021
6712	300 mm WM on Gallagher Rd from Plains Rd East to 160 m Northerly	BUR	WM	\$ 239,000	A+	2017-2021
6713	300 mm WM on Downsview Rd from Plains Rd East to Dowland Crescent	BUR	WM	\$ 223,000	A+	2017-2021
6714	300 mm WM on Brant from Fairview St to 180 m northerly	BUR	WM	\$ 342,000	A+	2017-2021
6715	300 mm WM on Woodview Rd from Fairview Street to 100 m Northerly	BUR	WM	\$ 181,000	A+	2017-2021
6716	200 mm WM from end of Commerce Court north to Fairview Street	BUR	WM	\$ 268,000	A+	2017-2021
6717	300 mm WM on Fairview from Appleby to Taylor Crescent	BUR	WM	\$ 1,137,000	A+	2017-2021
6718	300 mm WM on Oval Crescent heading due north from Fairview Street	BUR	WM	\$ 250,000	A+	2017-2021
Subtotal Burlington				\$ 258,170,000		
Milton						
5862	400 mm WM loop from 5th Line running east then south on new Milton Business Park Roads to Derry Rd west to 5th Line (Zone M4)	MIL	WM	\$ 3,500,000	A+	2012-2016
5867	1200 mm WM on Britannia Rd from 4th Line to RR 25 (Zone M4)	MIL	WM	\$ 19,529,000	B (Satisfied though 2008 MP)	2012-2016
5868	750 mm WM on Britannia Rd from #5867 to approximately 2,100 m west (to new Milton South road) (Zone M4)	MIL	WM	\$ 7,599,000	A+	2012-2016
5870	400 mm WM on new Milton South road from Britannia Rd to Louis St Laurent Ave (Zone M4)	MIL	WM	\$ 1,614,000	A	2012-2016
5875	900 mm WM on Derry Rd from new MIL Business Park Road to Trafalgar Rd (Zone M4)	MIL	WM	\$ 9,523,000	B (Satisfied though 2008 MP)	2012-2016
5876	600 mm WM on new internal Milton road from Britannia Rd to Louis St Laurent Ave (Zone M4)	MIL	WM	\$ 2,726,000	B (Satisfied though 2008 MP)	2012-2016
6318	300mm WM on No 14 Siderd from Tremaine Rd. to Milton Reservoir (Zone M5G)	MIL	WM	\$ 1,046,000	A+	2012-2016
6398	600 mm WM on re-aligned Tremaine Rd from Steeles Avenue to existing watermain on Peru Rd south of Hwy 401 (Zone M5L)	MIL	WM	\$ 6,433,000	B (Satisfied though 2008 MP)	2012-2016
6616	400 mm WM on Thompson Rd South from Britannia Rd to approx. 1,156 south (Zone M4)	MIL	WM	\$ 1,633,000	A+	2022-2026
6617	400 mm WM on new roadway south of Britannia Rd from Thompson Rd South to 4th Line (Zone M4)	MIL	WM	\$ 2,131,000	A+	2022-2026
6618	400 mm WM on new roadway south of Britannia Rd from 4th Line to 5th Line (Zone M4)	MIL	WM	\$ 2,164,000	A+	2017-2021
6619	400 mm WM on new roadway south of Britannia Rd from 5th Line to 6th Line (Zone M4)	MIL	WM	\$ 1,458,000	A+	2017-2021
6620	400 mm WM on 6th Line from Britannia Rd to 600 m south (Zone M4)	MIL	WM	\$ 1,008,000	A+	2017-2021
6621	400 mm WM on 6th Line from Britannia Rd to 1,500 m north (Zone M4)	MIL	WM	\$ 2,584,000	A+	2017-2021
6622	400 mm WM on 6th Line from Derry Rd to new Rd 1,500 m south (Zone M4)	MIL	WM	\$ 3,113,000	A+	2017-2021
6623	400 mm WM on 5th Line from Britannia Rd to 1,500 m north of Britannia Rd (Zone M4)	MIL	WM	\$ 1,902,000	A+	2017-2021
6624	400 mm WM on 4th Line from Britannia Rd to 650 m south (Zone M4)	MIL	WM	\$ 677,000	A+	2017-2021
6625	400 mm WM on Lower Base Line (East) from 4th Line to 5th Line (Zone M4)	MIL	WM	\$ 2,538,000	A+	2022-2026
6626	400 mm WM on 5th Line from Britannia Rd to 650 m south (Zone M4)	MIL	WM	\$ 688,000	A+	2017-2021
6627	400 mm WM on 4th Line from 650 m south of Britannia Rd to Lower Base Line (West) (Zone M4)	MIL	WM	\$ 2,172,000	A+	2022-2026
6628	400 mm WM on 5th Line from 650 m south of Britannia Rd to Lower Base Line (West) (Zone M4)	MIL	WM	\$ 2,882,000	A+	2022-2026
6629	600 mm WM on Louis St. Laurent Ave from 5th Line to 6th Line (Zone M4)	MIL	WM	\$ 2,479,000	A+	2017-2021

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6630	600 mm WM on Louis St. Laurent Ave from 6th Line to Trafalgar Rd (Zone M4)	MIL	WM	\$ 4,076,000	A+	2017-2021
6631	400 mm WM on Louis St. Laurent Ave from Trafalgar Rd to 8th Line (Zone M4)	MIL	WM	\$ 2,549,000	A+	2017-2021
6632	400 mm WM on Britannia Rd from Trafalgar Rd to 600 m east (Zone M4)	MIL	WM	\$ 1,002,000	A+	2017-2021
6633	400 mm WM on Britannia Rd from 600 m east of Trafalgar Rd to 8th Line (Zone M4)	MIL	WM	\$ 1,091,000	A+	2022-2026
6634	400 mm WM on new Milton Rd from Trafalgar Rd to approximately 700 m east (Zone M4)	MIL	WM	\$ 1,469,000	A+	2017-2021
6635	400 mm WM on 8th Line from Derry Rd. to approximately 1,600 m south (Zone M4)	MIL	WM	\$ 2,756,000	A+	2022-2026
6636	400 mm WM on 8th Line from Britannia Rd to approximately 1,500 m north (Zone M4)	MIL	WM	\$ 2,187,000	A+	2022-2026
6637	400 mm WM on new roadway from Britannia Rd to approx. 1,200 m south (Zone M4)	MIL	WM	\$ 1,570,000	A+	2017-2021
6638	400 mm WM on Derry Rd from Trafalgar Rd to 500 m east (Zone M4)	MIL	WM	\$ 548,000	A+	2017-2021
6639	400 mm WM on Derry Rd from 600 m east of Trafalgar Rd to 8th Line (Zone M4)	MIL	WM	\$ 881,000	A+	2017-2021
6640	600 mm WM on Trafalgar Rd from Zone 4 Reservoir to 600 mm Zone M5L WM on Steeles Avenue (ID 3844) (Zone M5L)	MIL	WM	\$ 6,463,000	B	2017-2021
6649	400 mm WM on Esquesing Line from James Snow Parkway to approximately 800 m north (Zone M5L)	MIL	WM	\$ 1,188,000	A+	2017-2021
6650	400 mm WM on new roadway from Esquesing Line to Boston Church Rd (Zone M5L)	MIL	WM	\$ 2,449,000	A+	2017-2021
6651	400 mm WM on new roadway from Boston Church Rd to approximately 360 m west (Zone M5L)	MIL	WM	\$ 1,216,000	A+	2017-2021
6652	400 mm WM on new roadway from 360 m west of Boston Church Rd to No 5 Siderd (Zone M5L)	MIL	WM	\$ 1,101,000	A+	2017-2021
6653	400 mm WM on No 5 Siderd from approximately 400 m west of 3rd Line to 3rd Line (Zone M5L)	MIL	WM	\$ 435,000	A+	2017-2021
6656	400 mm WM on Britannia Rd from Tremaine Rd to approximately 700 m east (Zone M4)	MIL	WM	\$ 1,118,000	A+	2012-2016
6657	400 mm WM on Tremaine Rd from 1,000 m south of Britannia Rd to 2,200 m south of Britannia Rd (Zone M4)	MIL	WM	\$ 2,022,000	A+	2022-2026
6658	400 mm WM on Tremaine Rd from Britannia Rd to 1,000 m south of Britannia Rd (Zone M4)	MIL	WM	\$ 1,375,000	A+	2022-2026
6659	400 mm WM on new road alignment from Tremaine Rd to approximately 360 m west (Zone M4)	MIL	WM	\$ 437,000	A+	2022-2026
6660	400 mm WM on Tremaine Rd from Louis St Laurent to Britannia Rd West (Zone M4)	MIL	WM	\$ 1,718,000	A+	2012-2016
6664	Relining of Walkers Line Well Feedermain with 150mm pipe within existing easement from West Appleby Line to Surge Tank (Zone M5L)	MIL	WM	\$ 216,000	A+	2012-2016
6666	750 mm WM on James Snow Parkway from Burnhamthorpe Rd W to Lower Base Line W (Zone M4)	MIL	WM	\$ 8,136,000	A+	2027-2031
6667	Lake Based Servicing Transfer (Zone M5L)	MIL	WM	\$ 3,165,000	A+	2012-2016
6675	Kelso WPP Residual Management Study & optimization (Zone M5G)	MIL	WPP	\$ 4,000,000	A	2012-2016
6688	400 mm WM on Trafalgar Rd from Steeles Avenue to Hwy 401 (Zone M5L)	MIL	WM	\$ 374,000	B	2017-2021
6689	400 mm WM on Trafalgar Rd Hwy 401 Crossing (Zone M5L)	MIL	WM	\$ 2,826,000	B	2012-2016
6690	400 mm WM on Trafalgar Rd from Hwy 401 to Main St Extension (Zone M5L)	MIL	WM	\$ 1,196,000	B	2017-2021
6691	400 mm WM on Main St extension from Trafalgar Rd (Zone M5L)	MIL	WM	\$ 1,887,000	A+	2017-2021
6692	400 mm WM on Main St extension from 5th Line to approximately 2,100 m east (Zone M5L)	MIL	WM	\$ 3,964,000	A+	2017-2021
6698	10 ML storage expansion at Zone M5L Reservoir	MIL	RES.	\$ 10,356,000	A	2022-2026
6719	300 mm WM on Main St. from Ontario St. to Easement, on Easement from Main St. to Nipissing Rd and on Nipissing Rd from Easement to 251 Nipissing Rd.	MIL	WM	\$ 2,335,000	A+	2017-2021
6720	300 mm WM on Childs Drive from Ontario Street North to Robertson Crescent (Eastern entrance)	MIL	WM	\$ 1,716,000	A+	2017-2021
6721	300 mm WM on Ontario Street North from Main Street East to Parkway Drive East	MIL	WM	\$ 1,787,000	A+	2017-2021
6722	300 mm WM on Woodward Avenue between Martin Street and Ontario Street North	MIL	WM	\$ 1,919,000	A+	2022-2026
6723	400 mm WM on Bronte St between Main Street West and Barton Street	MIL	WM	\$ 1,134,000	A+	2022-2026
6724	300 mm WM on Main Street East East between James Street and Martin Street	MIL	WM	\$ 538,000	A+	2022-2026
6725	300 mm WM on Laurier Avenue between Bronte Street and Commercial Street	MIL	WM	\$ 2,278,000	A+	2022-2026
Subtotal Milton				\$ 164,877,000		
Halton Hills - Acton						
5716	Upgrade piping between Prospect Park Wells and WPP (Zone A9G)	HHACT	WPP	\$ 377,000	A+	2012-2016
5717	Prospect Park WPP Expansion from 2.3 to 3.5 ML/d (Zone A9G)	HHACT	WPP	\$ 3,513,000	C	2012-2016
5718	Acton Reservoir Expansion from 4.5 to 7.0 ML (Construction) (Zone A9G)	HHACT	RES	\$ 3,017,000	A	2012-2016
6437	Acton Well Field Development and Treatment (Zone A9G)	HHACT	WPP	\$ 1,543,000	C	2012-2016
6439	Prospect Park Well Field Upgrades (Zone A9G)	HHACT	WPP	\$ 807,000	C	2012-2016
6590	Acton Supply Standby Well (Zone A9G)	HHACT	WPP	\$ 1,625,000	C	2017-2021
6597	300 mm WM on Reg Rd 25 from new well connection to 640 m North of Wallace St (Zone A9G)	HHACT	WM	\$ 1,069,000	A+	2012-2016
6598	300 mm WM from New Well to Reg Rd 25 (Zone A9G)	HHACT	WM	\$ 444,000	C	2012-2016

Attachment 1 - Water Capital Program

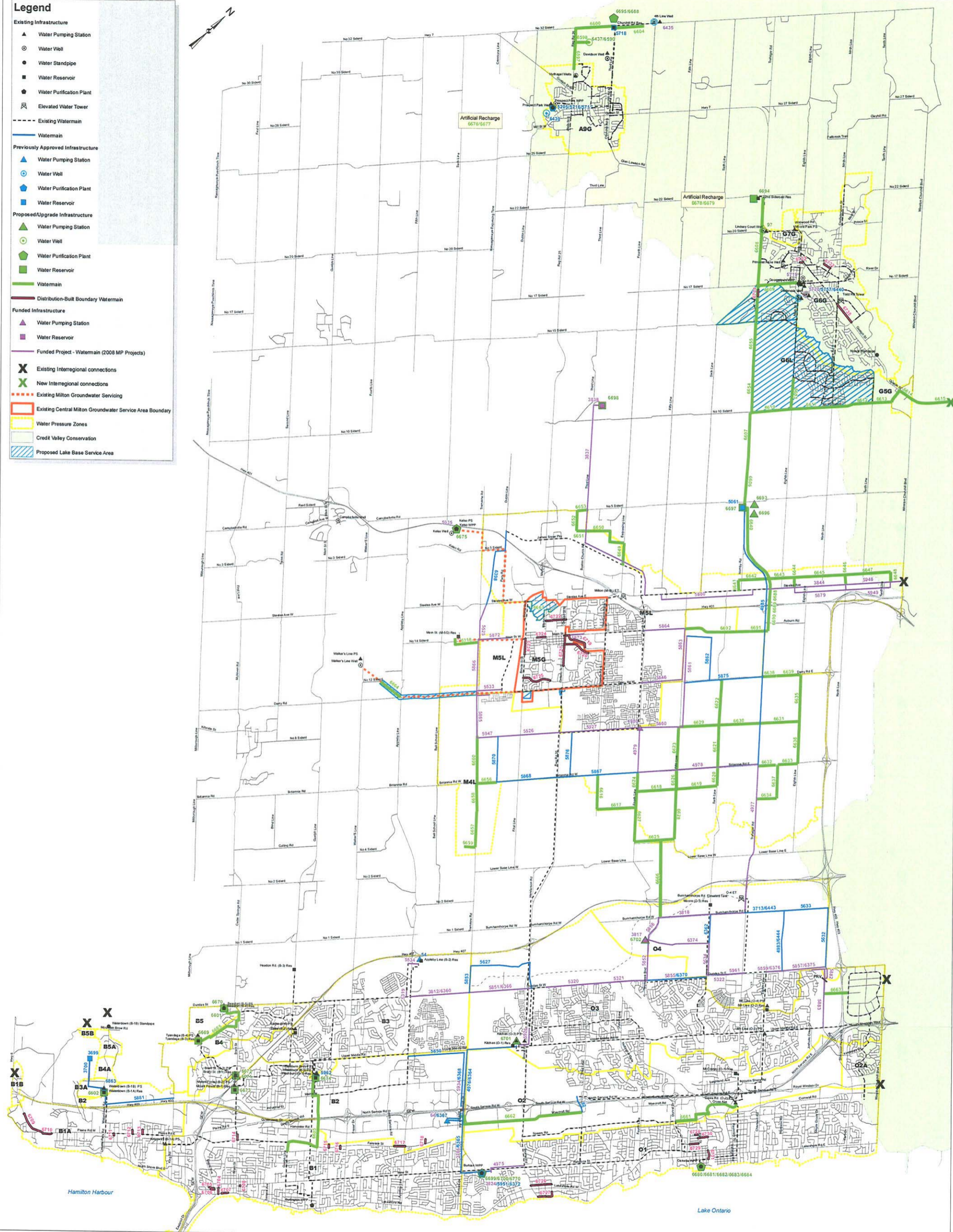
Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
6600	300 mm WM on Reg Rd 25 from new well connection to No. 32 Siderd and on No. 32 Siderd from Reg Rd 25 to 3rd Line Reservoir (Zone A9G)	HHACT	WM	\$ 1,684,000	A+	2022-2026
6604	150mm WM on 3rd Line from 3rd Line Reservoir to No. 32 Siderd and on No. 32 Siderd from 3rd Line to 950 m easterly (Zone A9G)	HHACT	WM	\$ 721,000	A+	2022-2026
6668	Centralized Treatment at 3rd line Reservoir Class EA Study (Zone A9G)	HHACT	Study	\$ 150,000	C	2017-2021
6676	Acton Artificial Recharge Study	HHACT	Study	\$ 500,000	C	2012-2016
6677	Acton Artificial Recharge Capital Works	HHACT	WPP	\$ 6,300,000	C	2012-2016
6695	Centralized Treatment at 3rd line Reservoir (Zone A9G)	HHACT	WPP	\$ 1,541,000	C	2022-2026
Subtotal Halton Hills - Acton				\$ 23,291,000		
Halton Hills - Georgetown						
97	Lindsay Court Well Field Expansion Class EA Study	HHGEO	Study	\$ 350,000	B	2012-2016
4985	1200 mm WM on Trafalgar Rd from Britannia Rd to new Zone 4 Reservoir (Zone M4)	HHGEO	WM	\$ 59,566,000	A+	2012-2016
5061	30 ML Reservoir, near Trafalgar Road and No.5 Siderd (Zone M4)	HHGEO	RES.	\$ 32,440,000	B	2012-2016
5757	Cedarvale Capture Zone Assessment	HHGEO	Study	\$ 300,000	N/A	2012-2016
6440	Cedarvale Well Field Upgrades (Zone G6G)	HHGEO	WPP	\$ 1,375,000	C	2012-2016
6603	400 mm WM on 8th Line from 10th Siderd to existing 400 mm (Zone G6L)	HHGEO	WM	\$ 1,623,000	A+	2017-2021
6606	750 mm WM on Trafalgar from the new Zone 4 Reservoir to approximately 1,650 m north (Zone G6L)	HHGEO	WM	\$ 3,126,000	B	2017-2021
6607	750 mm WM on Trafalgar Rd from 1,650 m north of Zone 4 Reservoir to No 10 Siderd (Zone G6L)	HHGEO	WM	\$ 3,510,000	B	2017-2021
6608	750 mm WM on Trafalgar from 15th Siderd to 22nd Siderd Lake Based Reservoir (Zone G6L)	HHGEO	WM	\$ 12,170,000	B	2017-2021
6609	400 mm WM on 17th Siderd from Trafalgar Rd to Main St (Zone G6L)	HHGEO	WM	\$ 1,744,000	A+	2017-2021
6610	600 mm WM on 10th Siderd from Trafalgar Rd to 8th Line (Zone G6L)	HHGEO	WM	\$ 2,540,000	A+	2017-2021
6611	600 mm WM on No 10 Siderd from 8th Line to 9th Line (Zone G6L)	HHGEO	WM	\$ 2,584,000	A+	2017-2021
6612	600 mm WM on No 10 Siderd from 9th Line to 10th Line (Zone G6L)	HHGEO	WM	\$ 3,049,000	A+	2022-2026
6613	600 mm WM on No 10 Siderd from 10th Line to Adamson St S (Zone G6L)	HHGEO	WM	\$ 1,502,000	A+	2022-2026
6614	600 mm WM on Adamson St from 10th Siderd to Guelph St and on Guelph St from Adamson St to 10th Siderd (Zone G6L)	HHGEO	WM	\$ 2,489,000	B	2022-2026
6615	600 mm WM on No 10 Siderd from Guelph St to Bovaird Dr (Region of Peel) (Zone G6L)	HHGEO	WM	\$ 1,843,000	A+	2022-2026
6654	750 mm WM on Trafalgar Rd from 10th Siderd to approximately 1,700 m north of 10th Siderd (Zone G6L)	HHGEO	WM	\$ 3,763,000	A+	2017-2021
6655	750 mm WM on Trafalgar from 1,700 m north of 10th Siderd to 15th Siderd (Zone G6L)	HHGEO	WM	\$ 3,375,000	A+	2017-2021
6678	Georgetown Artificial Recharge Study	HHGEO	Study	\$ 500,000	C	2012-2016
6679	Georgetown Artificial Recharge Capital Works	HHGEO	WPP	\$ 29,600,000	C	2012-2016
6693	20 ML/d Zone G6L pumping station at Zone 4 Reservoir	HHGEO	P.S.	\$ 9,000,000	B	2017-2021
6694	10 ML Zone G6L Storage at 22nd Siderd	HHGEO	RES.	\$ 10,905,000	B	2017-2021
6696	20 ML/d Zone M5L pumping station at Zone M4L Reservoir	HHGEO	P.S.	\$ 2,000,000	B	2017-2021
6697	20 ML storage expansion at Zone M4 Reservoir	HHGEO	RES.	\$ 20,712,000	A	2017-2021
6732	300 mm replacement on Easement from Rosetta Street to Victoria Street	HHGEO	WM	\$ 507,000	A+	2027-2031
6733	300 mm replacement on Cross Street from Guelph Street to Main Street	HHGEO	WM	\$ 200,000	A+	2027-2031
6734	300 mm in Trafalgar Road between Thompson Drive and Stewartown Rd	HHGEO	WM	\$ 426,000	A+	2027-2031
6735	300 mm replacement on Guelph Street between Mountainview Rd North and Sinclair Ave	HHGEO	WM	\$ 1,424,000	A+	2017-2021
Subtotal Halton Hills - Georgetown				\$ 212,623,000		
Halton Hills - 401 Corridor						
6641	400 mm WM in the 401 growth corridor north of Steeles Ave parallel to Hornby Rd (Zone M5L)	HH401	WM	\$ 1,084,000	A+	2017-2021
6642	400 mm WM in the 401 growth corridor north of Steeles from Hornby Rd to Trafalgar Rd (Zone M5L)	HH401	WM	\$ 1,693,000	A+	2017-2021
6643	400 mm WM in the 401 growth corridor north of Steeles from Trafalgar Rd to approximately 400m east of 8th Line (Zone M5L)	HH401	WM	\$ 2,469,000	A+	2017-2021
6644	400 mm WM in the 401 growth corridor from Steeles Ave to approximately 300 m north (Zone M5L)	HH401	WM	\$ 1,067,000	A+	2017-2021
6645	400 mm WM in the 401 growth corridor north of Steeles Ave. from 1,000 m west of 9th Line to 900 m east of 9th Line (Zone M5L)	HH401	WM	\$ 1,806,000	A+	2022-2026
6646	400 mm WM in the 401 growth corridor from Steeles Ave to approximately 330 m north (Zone M5L)	HH401	WM	\$ 1,038,000	A+	2022-2026
6647	400 mm WM in the 401 growth corridor north of Steeles Ave. from 600 m west of 10th Line to 1,000 m east of 10th Line (Zone M5L)	HH401	WM	\$ 1,998,000	A+	2022-2026
6648	400 mm WM in the 401 growth corridor from Steeles Ave to 340 m north (Zone M5L)	HH401	WM	\$ 1,414,000	A+	2022-2026
Subtotal Halton Hills - 401 Corridor				\$ 12,569,000		
Subtotal Halton Hills				\$ 248,483,000		

Attachment 1 - Water Capital Program

Region IPFS ID	Project Description	Municipality	Project Type	Total Estimated Cost (2012\$)	EA Schedule	Project Start Year
Region-Wide						
4950	SCADA Master Plan Review for Water Purification Plants and Distribution Systems	REG	Study	\$ 200,000	N/A	2012-2016
5725	Water Servicing Master Plan Update	REG	Study	\$ 1,715,000	N/A	2012-2016
5917	SCADA System Network Architecture Improvement Program (REG)	REG	Study	\$ 150,000	N/A	2012-2016
5918	Electrical Utility Meter Monitoring Installation Program (SCADA) (REG)	REG	Study	\$ 190,000	N/A	2012-2016
6189	Water Supply Capacity Annual Monitoring Report	REG	Study	\$ 450,000	N/A	2012-2021
6190	Water Distribution System Analysis	REG	Study	\$ 2,200,000	N/A	2012-2031
6685	Bulk Water Stations on Existing Sites	REG	P.S.	\$ 1,868,000	A	2012-2016
6686	Bulk Water Stations on New Sites	REG	P.S.	\$ 3,267,000	B	2012-2016
Subtotal Region-Wide				\$ 10,040,000		
TOTAL				\$ 952,593,000		

Legend

- Existing Infrastructure**
 - ▲ Water Pumping Station
 - Water Well
 - Water Standpipe
 - Water Reservoir
 - ⊛ Water Purification Plant
 - ⊞ Elevated Water Tower
 - - - Existing Watermain
 - Watermain
- Previously Approved Infrastructure**
 - ▲ Water Pumping Station
 - Water Well
 - ⊛ Water Purification Plant
 - Water Reservoir
- Proposed/Upgrade Infrastructure**
 - ▲ Water Pumping Station
 - Water Well
 - ⊛ Water Purification Plant
 - Water Reservoir
 - Watermain
 - Distribution-Built Boundary Watermain
- Funded Infrastructure**
 - ▲ Water Pumping Station
 - Water Reservoir
 - Funded Project - Watermain (2008 MP Projects)
- Other Features**
 - X Existing Interregional connections
 - X New Interregional connections
 - ⋯ Existing Milton Groundwater Servicing
 - ▭ Existing Central Milton Groundwater Service Area Boundary
 - ▭ Water Pressure Zones
 - ▭ Credit Valley Conservation
 - ▭ Proposed Lake Base Service Area



AECOM

220 Advance Boulevard, Brampton, ON, Canada L6T 4J5
T 905.459.4780 F 905.459.7869 www.aecom.com

Meeting Agenda

Date of Meeting: May 22, 2009 Start Time: 1:00 pm Project #: 286113301

Project Name: Sustainable Halton

Attendees: Jacqueline Weston, Halton

Lynne Germaine, Chris Howard, Imran Motala, Peel

Chris Hamel, AECOM

Location: Halton North Service Road, Oak Room

Regarding: Halton Peel Servicing

Discussion Items

1. Review Servicing Scenarios
 - scenario 1, new growth only, +/- 20,000 persons, 152 L/s max day water demand, 350 L/s peak wastewater flow
 - scenario 2, all Georgetown, +/- 66,000 persons, 547 L/s max day water demand, 1400 L/s peak wastewater flow
2. Review High Level Water Servicing Requirements for Long Term Strategy
 - infrastructure requirements
 - available capacity
3. Review High Level Wastewater Servicing Requirements for Long Term Strategy
 - infrastructure requirements
 - available capacity
4. Review Partial Water Servicing of Georgetown in Short Term
 - timing of current water facility projects
 - infrastructure requirements
 - available capacity

5. Review Temporary or Emergency Connection at Steeles Ave.
 - timing of current water facility projects
 - infrastructure requirements
 - available capacity
6. Other Items
 - Guiding principles
 - Buy-in requirements for existing infrastructure
7. Halton presentation requirements and timing
8. Other Business
9. Next Meeting

AECOM

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Meeting Agenda

Date of Meeting: March 13, 2009

Start Time: 2:00 pm

Project #: 286113301

Project Name: Sustainable Halton

Attendees: Jacqueline Weston, Halton
Lynne Germaine, Peel
Chris Howard, Peel
Chris Hamel, AECOM

Location: Halton Region, North Service Road

Regarding: Inter-Regional Servicing

Discussion Items

1. Sustainable Halton – Short Term Servicing Evaluation
 - High level comment on multiple growth concepts
 - No commitment to preferred servicing strategy
2. Sustainable Halton – Long Term Servicing Evaluation
 - Based on preferred growth option
 - Class EA MP evaluation
 - Will require detailed coordination
 - Development of preferred servicing strategy
3. Short Term Interconnection and Supply Opportunities
 - Potential water connections to Milton and Georgetown
4. Potential Peel Servicing Issues
 - Lorne Park WTP requirements
 - P2G projections and long term servicing needs
5. Other

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Meeting Minutes

Date of Meeting: March 13, 2009 Start Time: 2:00 pm Project #: 286113301

Project Name: Sustainable Halton

Attendees: Jacqueline Weston, David Simpson, Mickey Liu, Halton
 Lynne Germaine, Imran Motala, Pat Donnelly, Peel
 Chris Hamel, AECOM

Location: Halton Region, North Service Road

Regarding: Inter-Regional Servicing

Distribution: Attendees
 Chris Howard, Peel

PLEASE NOTE: If this report does not agree with your records of the meeting, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

Discussion Items

Action

1. Sustainable Halton – Short Term Servicing Evaluation
 - High level comment on multiple growth concepts
 - No commitment to preferred servicing strategy
 - Information will be presented to a technical committee on Tuesday, March 24
 - At the time of the meeting, AECOM anticipated preparing high level order of magnitude cost estimates for Peel servicing. At the time of preparing the minutes, it is anticipated that these estimates will not be presented. However, any comment with respect to Peel servicing should be distributed and reviewed by Peel prior to meeting. AECOM
 - Peel was to determine the level of communication to Peel Council required at this time. Peel

- Halton was to provide staff reports confirming the commitment for these technical discussions Halton
2. Sustainable Halton – Long Term Servicing Evaluation
- Based on preferred growth option
 - Class EA MP evaluation
 - Will require detailed coordination
 - Development of preferred servicing strategy
 - It was advised that the detailed servicing evaluation will take place in summer/fall 2009. Technical meetings will Peel staff will be required at that time. AECOM, Halton, Peel
3. Short Term Interconnection and Supply Opportunities
- Potential water connections to Milton and Georgetown
 - Peel advised that staff have started to review the potential servicing capacity availability. Peel will initiate the analysis and provide feedback in the near future Peel
 - Halton and Peel staff will require additional coordination on this issue in the near future Halton, Peel
 - It is anticipated that senior management will need to be involved to
4. Potential Peel Servicing Issues
- For information, some key servicing issues were raised that will factor in to the servicing analysis
 - Lorne Park WTP requirements
 - Any existing low flow/pressure areas
 - P2G projections and long term servicing needs

Meeting Adjourned At: 4:00 pm

Notes Taken By: Chris Hamel

Date Minutes Prepared: March 19, 2009

GOVERNMENT / AGENCIES

LETTERS RECEIVED

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, September 13, 2011 4:18 PM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton W and WW Master Plan

From: Jennifer Lawrence [<mailto:jlawrence@hrca.on.ca>]
Sent: Tuesday, September 13, 2011 2:24 PM
To: Simpson, David; Hamel, Chris; Campbell, Chris
Subject: Sustainable Halton W and WW Master Plan

Further to my email last week, engineering and aquatic ecology have had an opportunity to review the smaller binder and offer the following additional comments:

Water Project 6661 – Staff continue to recommend that this should be a Schedule C EA. If the Region disagrees, we want to highlight that in order to support the proposed preferred alternative, Alternative #7, the MSP should include the following:

- Sufficient detail in order to ensure that the access shaft on the west side of the valley is located far enough away from stable top of bank to ensure that it does not create or aggravate any slope stability issues as well as any conservation of land concerns. Ideally the access shaft would be located a minimum of 15 metres from stable top of bank.
- Location of the east access shaft is currently proposed within the Regional Storm flood plain. Ideally the access shaft would be located outside of the Regional Storm flood plain in a location that would not impact slope stability or conservation of land. If this cannot be achieved, the potential for flooding of the access shaft must be addressed.
- Confirmation that sufficient geotechnical information is available to demonstrate that tunnelling is a feasible option in this location without negatively impacting Sixteen Mile Creek and that the cost estimates provided will be sufficient to cover all potential mitigation measures that will be required in order to ensure the protection of the environmentally sensitive area.

Wastewater Project 6571 – The preferred alternative for this wastewater pumping station is located within a 120 metre allowance from a wetland located within the Sixteen Mile Creek valley (the other two alternatives are outside of the regulated area). This needs to be accounted for in the Evaluation Table, which may alter the preferred alternative selected. In order for Conservation Halton to support Alternative 3 as the preferred alternative, the MSP would need to provide sufficient hydrogeological information to demonstrate that the pumping station would not negatively impact the hydrological function of the wetland and that the cost estimates properly account for any mitigation measures that may be required.

Water Project 6699 – At our meeting it was confirmed that Phase 2 of the Burloak WPP only involves expansion of the on-site facilities. Is this also true for Phase 3?

Recommend detailed hydrogeological studies be conducted for any pumping stations that are to be constructed within 2 kilometres of any watercourses containing Brook Trout, Brown Trout, Rainbow Trout, Pearl Dace, Mottled Sculpin, Silver Shiner, Atlantic Salmon, American Eel or Redside Dace.

Installation of water and wastewater infrastructure is preferred to be undertaken using trenchless methods under all watercourses containing direct fish habitat and complex contributing fish habitat. In general, any infrastructure that will be placed below a watercourse should be supported with a hydrogeological study to demonstrate that there will be no impacts to the watercourse.

Severe weather events that lead to increased stormwater and snowmelt runoff are anticipated to continue and become more pronounced due to climate change. Lateral and horizontal erosion of watercourses is anticipated to be exacerbated through these occurrences. As such, it is requested that water and sewer infrastructure be placed as far away both vertically and horizontally from watercourses. This includes placing pipes and tunnels

as far below the invert of watercourses as possible and manholes outside of the meander belts and valleys associated with watercourses.

Project 6663: There is concern about the proximity about the watermain location from the watercourse where it runs in the Ninth Line right of way. Joshua's Creek has a cool water thermal regime and it is requested that the watermain not be located in an area where the tunnel will draw groundwater inputs away from the watercourse.

I have not undertaken a detailed evaluation of whether every chart is correct as it relates to whether a Permit from Conservation Halton is required. I would ask that the final document include maps that identify all of the areas regulated by Conservation Halton (Region has access to these maps through their GIS). This should improve the accuracy of the tables.

Jennifer

Jennifer Lawrence, MCIP, RPP
Manager, Environmental Planning
Conservation Halton
Ph: 905-336-1158 ex. 266
Fax: 905-336-6684
www.conservationhalton.ca

Bhabha, Fatima

From: Campbell, Chris
Sent: Tuesday, September 13, 2011 11:17 AM
To: Bhabha, Fatima
Subject: FW: Sustainable Halton Water and Wastewater Master Plan

From: Jennifer Lawrence [<mailto:jlawrence@hrca.on.ca>]
Sent: Friday, September 09, 2011 10:32 AM
To: Simpson, David; Campbell, Chris; Hamel, Chris
Subject: Sustainable Halton Water and Wastewater Master Plan

Hi David, Chris and Chris,

Thank you for meeting with us yesterday to discuss this Master Plan. As I mentioned, I really appreciate the efforts that the Region and consultants have made to ensure that there is effective communication with the agencies. Further to our meeting yesterday, below are Janette's draft comments:

General

Conservation Permits - Many of the projects do not properly identify when Conservation Authority permits are required. All projects should be reviewed relative to the ARL mapping previously provided to the Region and the approval section updated accordingly. As discussed at the meeting, it would appear that the mapping may only be identifying the flood plain (Regional Greenlands A) which does not capture all of the areas regulated by Conservation Halton (erosion hazards, lands adjacent to wetlands, etc.).

Wetlands – It should be confirmed that in any area where a proposed pumping station, watermain or sanitary sewer is located in close proximity to a wetland, the extra mitigation measures that will be necessary to permit construction have been identified and recognized in the evaluation of the options/alternatives/future costs.

Binder #3, Schedule 'B' and 'C' Water Projects

Water - Schedule B Projects

- 54 If the pump station is situated as shown on Drawing No. G603, a permit will not be required from Conservation Halton to complete construction.
- 82 MNR approval under the *Endangered Species Act* may also be required for this crossing because of the presence of Redside dace.
- 3698 It is our understanding that a specific location for the pumping station is not being shown and that the developer will be responsible for choosing the location. We recommend that some parameters be included in the Master Plan that identify those areas where the PS would not be permitted (i.e., within an area regulated by Conservation Halton, significant woodlands, buffers, etc.). This will ensure that the proposed location is in-keeping with the selection methodology that the Region used for other pumping stations within the Master Plan.
- 3699, 6693 & 6696 Prior to acquiring the land, the Region should ensure that the property limits of the selected site for the Zone 4 Reservoir and 2 pumping stations are outside of the area regulated by Conservation Halton.

- 6364 Scope of Work doesn't identify clearly the major crossing of the Main Bronte Creek Valley nor does it mention the crossing of the Bronte Creek tributary and East Sheldon Creek. It is also listed as a Schedule 'B' EA whereas it is currently proceeding as a Schedule 'C' EA.
- 6365 Project is listed as a Schedule 'B' EA whereas it is currently proceeding as a Schedule 'C' EA.
- 6368 Scope of Work misses a crossing of a Bronte Creek tributary.
- 6601 The Beaufort Reservoir site is not regulated by Conservation Halton.
- 6607 A tributary of Sixteen Mile Creek runs parallel to a portion of Trafalgar Road within the project limits. The watermain must be located within the road R.O.W. such that it does not impact this reach of the watercourse. In the event that it is determined during detailed design that additional impacts to the existing watercourse are proposed (i.e. impacts beyond the perpendicular crossing), additional study will be required.
- 6640 This project was discussed during the meeting. It would appear that the preferred alignment would not be our preferred alignment but it is difficult to assess the full implications on the regulated area due to the scale of the figure. Also, staff are uncertain as to what the full scope of this project is since the study area appears to be different on the various figures provided. If it is the larger study area and not just the Highway 401 crossing portion then there are more than 2 watercourse crossings required, as suggested by the Scope of Work.
- 6661 Staff recommend that this should be a Schedule C project however, we understand that additional information has been provided in the new binder at our meeting of September 7 and we will review accordingly.
- 6665 Staff recommend that this be a Schedule C EA – the proposed route will involve 10 watercourse crossings (not the 8 indicated in the table) including 8 crossings of fairly deep valleys, though the crossings would be utilizing trenchless technologies along an existing utility corridor. If there is not going to be a Schedule C EA, staff would like to understand better what construction and operational challenges for the hydraulic grade line will arise under Alternative 2 due to the localized high point (i.e. the reason why this alternative is ranked so low though it has less environmental impacts). Also, it should confirmed that there is sufficient information available to the Region to verify that there are no technical reasons why trenchless technology cannot be utilized to cross all valleys (and not just the watercourses).
- 6686 It is our understanding that Site 0 is the preferred bulk water site location in the Harrison Court area. Staff have no objections to this site. Conservation Halton should be contacted if Site 4 is selected as there are portions of this site that are inappropriate for development.
- 6686 Site 1 is labelled as Upper Middle Road Bulk Water Sites, however, the site is located at Dundas Street and Highway 407. Please note that not all of the flooding and erosion hazards associated with the tributary of Shoreacres Creek located immediately to the west of the site have been fully delineated for this area. These hazards will have to be delineated in order to confirm that there are no lands regulated by Conservation Halton on Site 1.
- 689 There should be a figure accompanying the Alternative Evaluations Table, which illustrates the location of each of the alternatives being considered.

- 6701 Conservation Halton staff should be contacted at the time of detailed design for the Kitchen Zone O3 Pumping Station expansion in order to make sure that all development associated with this expansion is located outside of the small portion of the subject site that is regulated by Conservation Halton.
- 6702 Staff recommend that the mapping may not be accurate. The pumping station has been relocated along Dundas Street.

Water – Schedule C Projects

- 5951 At the meeting it was confirmed that the proposed Phase 2 expansion of the Burloak WPP only involves on-site expansion and no additional intake structure.
- 6680 to 6684 Staff of Conservation Halton will need to be extensively involved in the Schedule C EA for the Oakville WPP expansion and water intake. The Region should confirm now that expansion to the plant is possible without requiring any expansion into the shoreline hazardous lands.

Binder #6, Schedule ‘B’ and ‘C’ Water Projects

Waste Water – Schedule ‘B’

- 6115 A new forcemain crossing of Sixteen Mile Creek is being proposed with approximately 2 metres +/- of cover. In principle, staff have no objections to considering a crossing at this location as it is proposed within the Britannia Road ROW, however, we believe that additional details regarding the crossing are necessary at this time in order to ensure that all potential impacts can be mitigated and that the cost estimates have taken into account all of the necessary mitigation measures that may be required. For example, confirmation that a trenchless technology will be utilized and that the necessary geotechnical work has been undertaken to demonstrate that trenchless technology is feasible. Is 2 metres +/- of cover sufficient to ensure that Sixteen Mile Creek will not be negatively impacted? Either sufficient study must be completed to demonstrate that the proposed wastewater main depth is appropriate or it should be confirmed that a deeper crossing can be installed and that potential for a deeper crossing has been accounted for in the cost estimates.
- 5069 It should be ensured that the property limits of the selected site are outside of the area regulated by Conservation Halton by ensuring that the limits of the property acquired are located a minimum of 15 metres away from the stable top of bank associated with the Sixteen Mile Creek valley.
- 6540 A figure should be provided that illustrates the locations of the various alternatives presented within the table.
- 6555 Tremaine Road Pumping Station - Where is pumping station proposed? No figure was included.
- 6571 Based on GIS, Alternative 3, which has been ranked the highest would be right in the Sixteen Mile Creek valley. Based on our discussions it is our understanding that this mapping has been corrected in the new binder.
- 6579 A new forcemain crossing of Sixteen Mile Creek is being proposed with approximately 6 metres +/- of cover. In principle, staff have no objections to considering a crossing at this location as it is proposed within the Britannia Road ROW, however, we believe that additional details regarding the crossing are necessary at this time in order to ensure that all potential impacts can be mitigated and that the cost estimates have taken into account all of the necessary mitigation measures that may be required. For example, confirmation that a trenchless technology will be utilized and that the necessary geotechnical

work has been undertaken to demonstrate that trenchless technology is feasible. Is 6 metres +/- of cover sufficient to ensure that Sixteen Mile Creek will not be negatively impacted? Either sufficient study must be completed to demonstrate that the proposed wastewater main depth is appropriate or it should be confirmed that a deeper crossing can be installed and that potential for a deeper crossing has been accounted for in the cost estimates.

6584 A table undertaking an evaluation of the alternatives should be provided. As discussed, it may be appropriate to combine the pumping station with the Class C EA for the forcemain that evaluates the various alternatives.

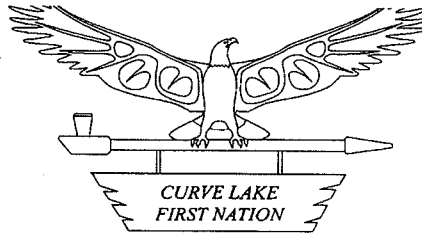
Waste Water – Schedule ‘C’

6585 Conservation Halton staff have assumed that the stand alone Schedule ‘C’ EA will assess all possible alignments for this wastewater main and not just variations along Lower Baseline. Staff also suggest that the location of the associated pumping station also be included within the subject EA due to their interconnectedness.

We will take a look at the new binder asap.

Jennifer

Jennifer Lawrence, MCIP, RPP
Manager, Environmental Planning
Conservation Halton
Ph: 905-336-1158 ex. 266
Fax: 905-336-6684
www.conservationhalton.ca



CURVE LAKE, ONTARIO K0L 1R0

HALTON REGION
JUL 27 2011
PLANNING SERVICES

July 6th, 2011

David Simpson
1151 Bronte Road
Oakville, Ontario L6M 3L1

Dear David Simpson,

RE: Sustainable Halton Water and Wastewater Master Plan - Notice of Public Information Centre #2

We would like to acknowledge receipt of your correspondence dated 2/3/2011 regarding the above noted project.

As you may be aware, the area in which your project is proposed is situated within the Traditional Territory of Curve Lake First Nation. Our First Nation's Territory is incorporated within the Williams Treaty Territory and is the subject of a claim under Canada's Specific Claims Policy. We strongly suggest that you provide Karry Sandy-Mackenzie, Williams Treaty First Nation Claims Coordinator, 8 Creswick Court, Barrie, ON L4M 2S7, with a copy of your proposal as your obligation to consult to also extend to the other First Nations of the Williams Treaty.

Although we have not conducted exhaustive research nor have we the resources to do so, Curve Lake First Nation Council is not currently aware of any issues that would cause concern with respect to our Traditional, Aboriginal and Treaty rights.

Please note that we have particular concern for the remains of our ancestors. Should excavation unearth bones, remains or other such evidence of a native burial site or any Archaeological findings, we must be notified without delay. In the case of a burial site, Council reminds you of your obligations under the *Cemeteries Act* to notify the nearest First Nation Government or other community of Aboriginal people which is willing to act as a representative and whose members have a close cultural affinity to the interred person. As I am sure you are aware, the regulations further state that the representative is needed before the remains and associated artifacts can be removed. Should such a find occur, we request that you contact our First Nation immediately.

If any new, undisclosed or unforeseen issues should arise, that has potential for anticipated negative environmental impacts or anticipated impacts on our Treaty and Aboriginal rights we require that we be notified regarding these as well.

Thank you for recognizing the importance of consultation and respecting your duty to consult obligations as determined by the Supreme Court of Canada.

Should you have further questions, please feel free to contact me.

Yours sincerely,

Chief Keith Knott
Curve Lake First Nation

C.C. Chris Hamel Project Manager, AECOM



May 21, 2010

To Mr. David Simpson and Mr. Chris Hamel

RE: Sustainable Halton Water and Wastewater Master Plan

Thank you for circulating Ontario Realty Corporation (ORC) on your Notice of Commencement. The ORC is the strategic manager of the government's real property with a mandate of maintaining and optimizing value of the portfolio, while ensuring real estate decisions reflect public policy objectives of the government.

As you may be aware, ORC is responsible for managing real property that is owned by the Ministry of Energy and Infrastructure (MEI). Our preliminary review of your notice and supporting information indicates that ORC-managed property is directly in the study area. As a result, your proposal may have the potential to impact this property and/or the activities of tenants present on ORC-managed lands. Attached please find a map that identifies these properties to assist you in identifying and avoiding potential impacts on ORC-managed lands. Please note that lands managed by Hydro One, on behalf of ORC are in the study area. These lands are also subject to the same following requirements.

Potential Negative Impacts to ORC Tenants and Lands

General Impacts

Negative environmental impacts associated with the project design and construction, such as the potential for dewatering, dust, noise and vibration impacts, and impacts to natural heritage features/habitat and functions, should be avoided and/or appropriately mitigated in accordance with applicable regulations best practices and Ministry of Natural Resources (MNR) and Ministry of the Environment (MOE) standards. Avoidance and mitigation options that characterize baseline conditions and quantify the potential impacts should be present as part of the EA project file. Details of appropriate mitigation, contingency plans and triggers for implementing contingency plans should also be present.

Impacts to Land holdings

Negative impacts to land holdings, such as the taking of developable parcels of ORC managed land or fragmentation of utility or transportation corridors, should be avoided. If the potential for such impacts is present as part of this undertaking, you should contact the undersigned to discuss these issues at the earliest possible stage of your study.

If takings are suggested as part of any alternative these should be appropriately mapped and quantified within EA report documentation. In addition, details of appropriate mitigation and or next steps related to compensation for any required takings should be present. ORC requests circulation of the draft EA report prior to finalization if potential impacts to ORC-managed lands are present as part of this study.





Heritage Management Process & Class Environmental Assessment (EA) Process

Should the proposed activities impact cultural heritage features, on ORC managed lands, a request to examine cultural heritage issues which can include the cultural landscape, archaeology and places of sacred and secular value could be required. The Ontario Realty Corporation Heritage Management Process should be used for identifying and conserving heritage properties in the provincial portfolio (this document can be downloaded from the Heritage section of our website: <http://www.ontariorealty.ca/What-We-Do/Heritage.htm>). Through this process, ORC identifies, communicates and conserves the values of its heritage places. In addition, the Class EA ensures that ORC considers the potential effects of proposed undertakings on the environment, including cultural heritage.

Potential Triggers Related to MEI's Class EA

The ORC is required to follow the MEI Class Environmental Assessment Process for Realty Activities Not Related to Electricity Projects (MEI Class EA). The MEI Class EA applies to a wide range of realty and planning activities including leasing or letting, planning approvals, disposition, granting of easements, demolition and property maintenance/repair. For details on the ORC Class EA please visit the Environment and Heritage page of our website found at <http://www.ontariorealty.ca/AssetFactory.aspx?did=2240>

If the MEI Class EA is triggered, and deferral to another ministry's or agency's Class EA or individual EA is requested, the alternative EA will be subject to a critical review prior to approval for any signoff of a deferral by the proponent. The alternative EA needs to fulfill the minimum criteria of the MEI Class EA. When evaluating an alternative EA there must be explicit reference to the corresponding undertaking in the MEI Class EA (e.g., if the proponent identifies the need to acquire land owned by MEI, then "acquisition of MEI-owned land", or similar statement, must be referenced in the EA document). Furthermore, sufficient levels of consultation with MEI's/ORC's specific stakeholders, such as the Ontario Ministry of Natural Resources, must be documented with the relevant information corresponding to MEI's/ORC's undertaking and the associated maps. In addition to archaeological and heritage reports, a Phase I Environmental Site Assessment (ESA), on ORC lands should also be incorporated into the alternative EA study. Deficiencies in any of these requirements could result in an inability to defer to the alternative EA study and require completing MEI's Class EA prior to commencement of the proposed undertaking.

In summary, the purchase of MEI-owned/ORC-managed lands or disposal of rights and responsibilities (e.g. easement) for ORC-managed lands triggers the application of the MEI Class EA. If any of these realty activities affecting ORC-managed lands are being proposed as part of any alternative, please contact the Sales and Marketing Group





through ORC's main line (Phone: 416-327-3937, Toll Free: 1-877-863-9672), and contact the undersigned at your earliest convenience to discuss next steps.

Specific Comments

If an EA for this project is currently being undertaken and the undertaking directly affects all or in part any ORC-managed property, please send the undersigned a copy of the DRAFT EA report and allow sufficient time (minimum of 30 calendar days) for comments and discussion prior to finalizing the report to ensure that all MEI Class EA requirements can be met through the EA study.

Concluding Comments

Thank you for the opportunity to provide initial comments on this undertaking. If you have any questions on the above I can be reached at the contacts below.

Sincerely,

Lisa Myslicki
Environmental Coordinator
Ontario Realty Corporation - Professional Services
1 Dundas Street West,
Suite 2000, Toronto, Ontario
M5G 2L5
(416) 212-3768
lisa.myslicki@ontariorealty.ca





Indian and Northern
Affairs Canada

www.inac.gc.ca

Affaires indiennes
et du Nord Canada

www.ainc.gc.ca

Your file - Votre référence

31 MAI 2010

Our file - Notre référence

Chris Campbell
Aecom
105 Commerce Valley Drive West
Markham, ON Canada L3T 7W3

Dear Mr. Campbell:

**Re: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan Municipal
Class Environmental Assessment Study**

I am writing in response to your letter of May 14, 2010 inquiring about any claims that may affect the subject property. I regret that we were unable to respond earlier.

We can inform you that our inventory does not include active litigation in the vicinity of this property. Please note that we are unable to make any representations regarding potential or future claims.

We cannot make any comments regarding claims filed under other departmental policies. For information on any claims you should also contact Don Boswell of the Specific Claims Branch at (819) 953-1940 to inquire about any Specific Claims. To inquire about any current Comprehensive Claims, please contact Nicole Cheechoo of Treaty and Aboriginal Government Central Operations at (819) 997-3499.

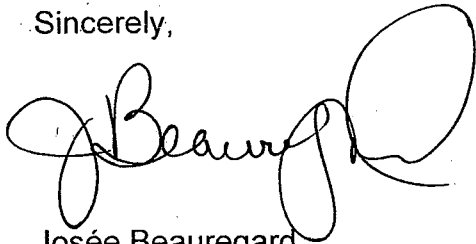
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Canada

If you have any further questions please do not hesitate to contact me at (819)994-1947.

Josée Beauregard, Ontario/Nunavut Team
Indian and Northern Affairs
LITIGATION MANAGEMENT AND RESOLUTION BRANCH
25 Eddy Street
Gatineau, Quebec
K1A 0H4)

Sincerely,

A handwritten signature in black ink, appearing to read 'J. Beauregard', with a large, stylized flourish at the end.

Josée Beauregard
Litigation Team Leader
Eastern Litigation Directorate
Litigation Management and Resolution Branch

DISCLAIMER: In this Disclaimer, "Canada" means Her Majesty the Queen in right of Canada and the Minister of Indian Affairs and Northern Development and their servants and agents. Canada does not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any data or information disclosed with this correspondence or for any actions in reliance upon such data or information or on any statement contained in this correspondence. Data and information is based on information in departmental records and is disclosed for convenience of reference only. Canada does not act as a representative for any Aboriginal group for the purpose of any claim. Information from other government sources and private sources (including Aboriginal groups) should be sought, to ensure that the information you have is accurate and complete.

Ministry of the Environment

Ministère de l'Environnement

Central Region
Technical Support Section

Région du Centre
Section d'appui technique

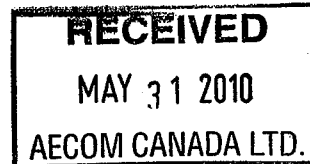
5775 Yonge Street, 8th Floor
North York, Ontario M2M 4J1

5775, rue Yonge, 8^{ième} étage
North York, Ontario M2M 4J1

Tel.: (416) 326-6700
Fax: (416) 325-6347

Tél. : (416) 326-6700
Télé. : (416) 325-6347

May 27, 2010



File: EA 05 04 05

Chris Campbell
AECOM
105 Commerce Valley Dr. W.
Markham, ON L3T 7W3

**RE: TSS Comments:
Sustainable Halton Water and Wastewater Master Plan
Halton Region
Class Environmental Assessment
Response to Notice of Commencement**

Dear Mr. Campbell:

This letter is our response to your Notice of Study Commencement for the above noted project. This response acknowledges that Halton Region has indicated that its study is following the approved environmental planning process for a Master Plan project under the *Municipal Engineers Association Municipal Class Environmental Assessment (Class EA)*.

Based on the information submitted, we have identified the following issues of concern with respect to the proposed undertaking:

- Ecosystem Protection and Restoration
- Surface Water
- Groundwater
- Air Quality
- Servicing and Facilities
- Contaminated Soils
- Mitigation and Monitoring
- Planning and Policy
- Class EA Process
- First Nations Consultation

We are providing the following general comments to assist you and your project team members in effectively addressing these issues:

Ecosystem Protection and Restoration

- Any impacts to ecosystem form and function must be avoided where possible. The ESR should describe any proposed mitigation measures and how project planning will protect and enhance the local ecosystem.
- All natural heritage features should be identified and described in detail to assess potential impacts and to develop appropriate mitigation measures. Our records confirm that the following sensitive environmental features are located within or adjacent to the Study Area:
 - Areas of Natural and Scientific Interest (ANSIs)
 - Environmentally Sensitive Areas (ESAs)
 - Rare Species of flora or fauna
 - Watercourses
 - Wetlands
 - Woodlots

We recommend consulting with the Ministry of Natural Resources (MNR), Fisheries and Oceans Canada (DFO) and your local conservation authority to determine if special measures or additional study will be necessary to preserve and protect these sensitive features.

Surface Water

- The ESR must include a sufficient level of information to demonstrate that there will be no negative impacts on the natural features or ecological functions of any watercourses within the Study Area. Measures should be included in the planning and design process to ensure that any impacts to watercourses from construction or operational activities (e.g. spills, erosion, pollution) are mitigated as part of the proposed undertaking. The MOE Guideline B-6, *Evaluating Construction Activities Impacting on Water Resources* should be used to plan and construct this project.
- Additional stormwater runoff from new pavement can impact receiving watercourses and flood conditions. Quality and quantity control measures to treat stormwater runoff should be considered for all new impervious areas and, where possible, existing surfaces. MOE's *Stormwater Management Planning and Design Manual* (2003) should be referenced in the ESR and utilized when designing stormwater control methods. We recommend that a Stormwater Management Plan should be prepared as part of the Class EA process that includes:
 - Strategies to address potential water quantity and erosion impacts related to stormwater draining into streams or other sensitive environmental features, and to ensure that adequate (enhanced) water quality is maintained
 - Watershed information, drainage conditions, and other relevant background information
 - Future drainage conditions, stormwater management options, information on erosion and sediment control during construction, and other details of the proposed works.
 - Information on maintenance and monitoring commitments

Groundwater

- The status of, and potential impacts to any well water supplies should be addressed. If the project involves groundwater takings or changes to drainage patterns, the quantity and quality of groundwater may be affected due to drawdown effects or the redirection of existing contamination flows. In addition, project activities may infringe on existing wells such that they must be reconstructed or sealed and abandoned. Appropriate information to define existing groundwater conditions should be included in the ESR.
- If the potential construction or decommissioning of water wells is identified as an issue, the ESR should refer to Ontario Regulation 903, Wells, under the *Ontario Water Resources Act*.
- Potential impacts to groundwater-dependent natural features should be addressed. Any changes to groundwater flow or quality from groundwater taking may interfere with the ecological processes of streams, wetlands or other surficial features. In addition, discharging contaminated or high volumes of groundwater to these features may have direct impacts on their function. Any potential effects should be identified, and appropriate mitigation measures should be recommended. The level of detail required will be dependent on the significance of the potential impacts.
- Any potential approval requirements for groundwater taking or discharge should be identified in the ESR. In particular, a Permit to Take Water (PTTW) under the *Ontario Water Resources Act* will be required for any water takings that exceed 50,000 litres per day. A PTTW application must be accompanied by an assessment of potential effects as noted above, and may require a higher level of detail than what is provided in the ESR. Please note that when significant long-term water taking is proposed, the maximum rate identified in the ESR must not be exceeded in any subsequent PTTW applications. For more information on the application and approval process, we suggest you refer to the MOE *Permit to Take Water Manual* (April 2005).

Air Quality

- An air quality or odour impact assessment may be required for this project to evaluate alternatives, determine impacts and identify appropriate mitigation measures. The scope of the assessment should be determined based on the potential effects of the proposed alternatives, and typically includes source and receptor characterization, a quantification of air quality impacts by determining emission rates and conducting dispersion modelling, and an assessment of effects. This assessment should compare to all available standards for any contaminants of concern. We recommend that you contact this office during the scoping process to confirm the appropriate level of assessment.

Dust and Noise

- Dust and noise control measures should be addressed and included in the construction plans to ensure that nearby residential and other sensitive land uses within the Study Area are not adversely affected during construction activities. If dust suppressants are proposed to be used, we recommend the use of non-chloride based compounds to protect water quality.
- The ESR should consider the potential impacts of increased noise levels during the operation of the undertaking. The proponent should explore all potential measures to mitigate significant noise impacts during the assessment of alternatives.

Servicing and Facilities

- Any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste must have a Certificate of Approval before it can operate lawfully. Please consult with the Environmental Assessment and Approvals Branch to determine whether a new or amended Certificate of Approval will be required for any proposed infrastructure.
- We recommend referring to MOE's "D-Series" guidelines – *Land Use Compatibility* to ensure that all applicable Ministry procedures are followed in planning for any infrastructure or facilities related to wastewater, pipelines, landfills or industrial uses.

Contaminated Soils

- Since the removal or movement of soils may be required, appropriate tests to determine contaminant levels from previous land uses or dumping should be undertaken. If the soils are contaminated, you must determine how and where they are to be disposed of, consistent with *Part XV.1 of the Environmental Protection Act (EPA)* and Ontario Regulation 153/04, Records of Site Condition, which details the new requirements related to site assessment and clean up. We recommend contacting the MOE Halton Peel District Office in Ajax for further consultation if contaminated sites are present.
- The location of any underground storage tanks should be included in the ESR. Measures should be identified to ensure the integrity of these tanks and to ensure an appropriate response in the event of a spill. The MOE Spills Action Centre must be contacted in such an event.
- Any current or historical waste disposal sites should be identified in the ESR. The status of these sites should be determined to confirm whether approval pursuant to Section 46 of the *Environmental Protection Act* may be required for land uses on former disposal sites.
- The ESR should identify any underground transmission lines in the Study Area. The owners should be consulted to avoid impacts to this infrastructure, including potential spills.

Mitigation and Monitoring

- Design and construction reports and plans should be based on a best management approach that centres on the prevention of impacts, protection of the existing environment, and opportunities for rehabilitation and enhancement of any impacted areas.
- All waste generated during construction must be disposed of in accordance with MOE requirements.
- Contractors must be made aware of all environmental considerations so that all environmental standards and commitments for both construction and operation are met. Mitigation measures should be clearly referenced in the ESR and regularly monitored during the construction stage of the project. In addition, we encourage proponents to conduct post-construction monitoring to ensure all mitigation measures have been effective and are functioning properly. The proponent's construction and post-construction monitoring plans should be documented in the ESR.

Planning and Policy

- The *Niagara Escarpment Plan* contains policies that provide for the maintenance of the Niagara Escarpment and land in its vicinity as a continuous natural environment. Since part of the Study Area is within the Niagara Escarpment plan area, applicable policies should be referenced in the ESR for this proposed project, and Halton Region should demonstrate how this proposed project is consistent with these policies, including describing measures that prevent and minimize potential impacts. You may wish to consider consulting with the Ministry of Municipal Affairs & Housing in this matter.
- The *Greenbelt Plan* contains policies that protect the Greenbelt's agricultural land base and the ecological features and functions occurring on this landscape. Since the Study Area is within the Greenbelt planning area, the ESR should demonstrate how the project adheres to the relevant sections of the *Greenbelt Plan*, including Section 4.2.1 - General Infrastructure Policies. A description of measures that prevent and minimize potential impacts should also be included. You may wish to consider consulting with the Ministry of Municipal Affairs & Housing in this matter.
- The 2005 *Provincial Policy Statement* contains policies that protect Ontario's Natural Heritage. Applicable policies should be referenced in the ESR, and the proponent should demonstrate how this proposed project is consistent with these policies. You may wish to consider consulting with the Ministry of Municipal Affairs & Housing in this matter.
- The *Places to Grow Plan* contains policies which guide decisions on a range of issues such as infrastructure planning and land-use planning to ensure that stronger and more prosperous communities are built in the Greater Golden Horseshoe. The ESR should demonstrate how this project adheres to the relevant policies of the *Places to Grow Plan*, including Section 3, which contain policies for Infrastructure to Support Growth.

Class EA Process

- There are several different approaches that can be used to conduct a Master Plan, examples of which are outlined in Appendix 4 of the Class EA. The ESR should clearly indicate the selected approach for conducting the plan, in particular by identifying whether the levels of assessment, consultation and documentation are sufficient to fulfill the requirements for Schedule B or C projects. Please note that any Schedule B or C projects identified in the plan would be subject to Part II Order Requests under the *Environmental Assessment Act*, although the plan itself would not be.
- The ESR should provide clear and complete documentation of the planning process in order to allow traceability of decision-making. It must also demonstrate how the consultation provisions of the Class EA have been fulfilled, including documentation of all public consultation efforts undertaken during the planning process. Additionally, it should identify all concerns that were raised and how they have been addressed throughout the planning process. The Class EA also directs proponents to include copies of comments submitted on the project by interested stakeholders, and the proponent's responses to these comments.

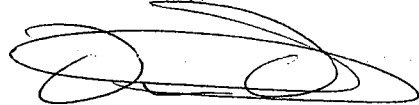
- The Class EA requires the consideration of the effects of each alternative on all aspects of the environment. The ESR should include a level of detail (e.g. hydrogeological investigations, terrestrial and aquatic assessments) such that all potential impacts can be identified and appropriate mitigation measures can be developed. Any supporting studies conducted during the Class EA process should be referenced and included as part of the ESR.
- Please include in the ESR a list of all subsequent permits or other approvals that may be required for the implementation of the preferred alternative, including Permits to Take Water, Certificates of Approval or other ministerial approvals, approval under the *Canadian Environmental Assessment Act* (CEAA), and conservation authority permits.
- Please note that MOE guidelines and other information related to the issues noted above are available at www.ene.gov.on.ca under the publications link. We encourage the proponent to review all the available guides and to reference any relevant information in the ESR.

First Nations Consultation

- Please note that as part of the required stakeholder and agency consultation, proponents are advised to contact the Ministry of Aboriginal Affairs and the Department of Indian and Northern Affairs to determine potentially affected Aboriginal peoples in the project area. Please refer to the website <http://www.ene.gov.on.ca/en/eaab/aboriginal-resources.php> for a list of appropriate government contacts.
- Once identified, you are advised to provide notification directly to the Aboriginal peoples who may be affected by the project and provide them with an opportunity to participate in any planned public consultation sessions and comment on the project.

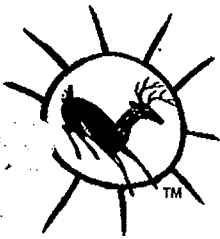
Thank you for the opportunity to comment on this project. Please ensure that Daniel Delaquis, MOE Central Region **EA and Planning Coordinator**, is placed on the project mailing list. We recommend a draft copy of the ESR be circulated to this office prior to the filing of the final draft, allowing approximately 30-days review time for the ministry's technical reviewers to provide comments. Please also forward our office the Notice of Completion and ESR when completed. Should you or any members of your project team have any questions regarding the above, please feel free to contact me at (416) 326-4839; I would be pleased to assist you.

Yours sincerely,



Daniel Delaquis
Environmental Resource Planner and EA Coordinator
Air, Pesticides and Environmental Planning

- c. Dave Fumerton, York Durham District Office, MOE
Central Region EA File
A & P File



Chippewas of RAMA
First Nation

5884 Rama Road, Suite 200

Rama, Ontario L0K 1T0

T 705.325.3611 F 705.325.0879

A Proud Progressive First Nation Community

June 2, 2010

Water Planning, Public Works
Regional Municipality of Halton
1151 Bronte Road
Oakville, ON L6M 3L1

HALTC

JUN

PLANNING

Attention: David Simpson

Re: Halton Water and Wastewater Master Plan

Dear Mr. Simpson:

As a member of the Williams Treaties First Nations, Rama First Nation acknowledges receipt of your letter of May 13, 2010, which was received on May 14, 2010.

A copy of your letter has been forwarded to Karry Sandy-McKenzie, Barrister & Solicitor, Coordinator for Williams Treaties First Nations for further review and response directly to you. Ms. Sandy's address is 8 Creswick Court, Barrie, ON L4M 2J7 and her telephone number is (705) 792-5087.

We appreciate your taking the time to share this important information with us.

Sincerely,

Chief Sharon Stinson Henry

c: Council, Rama First Nation
Jeff Hewitt, General Counsel
Karry Sandy-McKenzie, Coordinator Williams Treaties Nations
Chief Rodney Monague Jr., Portfolio Chief for Williams Treaties Nations

SSH/sw

Campbell, Chris

From: Simpson, David [David.Simpson@halton.ca]
Sent: Monday, June 07, 2010 10:25 AM
To: Campbell, Chris
Subject: FW: scanned document from copier
Attachments: pic letter.pdf

FYi

-----Original Message-----

From: James Etienne [mailto:jetienne@grandriver.ca]
Sent: Saturday, June 05, 2010 2:29 PM
To: Simpson, David
Cc: Lorrie Minshall; George Sousa; Sandra Cooke; Drew Cherry; chris.hamel@aecom.com
Subject: FW: scanned document from copier

Hi David:

Please find attached the GRCA's comments from the June 2nd, Acton PIC.

Sincerely,

James B. Etienne, P.Eng.
Senior Water Resources Engineer
Grand River Conservation Authority
10 Clyde Road, Cambridge, ON N1R 5W6
Tel: 519-621-2763 ext. 2298
email: jetienne@grandriver.ca

-----Original Message-----

From: James Etienne [mailto:jetienne@grandriver.ca]
Sent: Saturday, June 05, 2010 1:58 PM
To: James Etienne
Subject: scanned document from copier

This message, including any attachments, is privileged and intended only for the person(s) named above. This material may contain confidential or personal information which may be subject to the provisions of the Municipal Freedom of Information & Protection of Privacy Act. Any other distribution, copying or disclosure is strictly prohibited. If you are not the intended recipient or have received this message in error, please notify us immediately by telephone, fax or e-mail and permanently delete the original transmission from us, including any attachments, without making a copy.

Thank you



400 Clyde Road, P.O. Box 729 Cambridge, ON N1R 5W6

Phone: 519.621.2761 Toll free: 866.900.4722 Fax: 519.621.4844 Online: www.grandriver.ca

June 4, 2010

Mr. David Simpson, B.Sc., B.Eng., EIT
Sr. Project Manager, Water Planning
Public Works, Regional Municipality of Halton
1151 Bronte Road
Oakville, ON L6M 3L1

Dear Mr. Simpson:

Re: Sustainable Halton Water and Wastewater Servicing Master Plan – Municipal Class EA Public Information Centre No 1 Comments

Thank you for inviting the Grand River Conservation Authority to attend the first round of PICs for the above noted Class EA. Although the study area for the Sustainable Halton Water and Wastewater Servicing Master Plan only influences a small portion of the Grand River watershed, we feel it would be appropriate to comment upon the water and wastewater servicing proposals presented at the June 2, 2010 PIC in Acton.

With respect to the municipal system interconnection to Wellington County identified in Water Servicing Concept 5, it is felt that this alternative should be ruled out if it requires an intra basin transfer from the Grand River watershed to the Credit River watershed as this would result in a "short circuiting" of flow to Lake Ontario, bypassing Lake Erie.

The Water Servicing Concepts for Acton identify proposals to increase the capacity of the Prospect Well. Wastewater Servicing Concept 2 also identifies consideration of inflow/infiltration (I/I) reductions to preserve wastewater treatment capacity in Acton. If the infiltration portions of I/I have been identified as a significant quantity affecting the source of the Prospect Well, then I/I reductions should be considered as a condition of expanding the well's PTTW to ensure the ongoing sustainability of the water source.

Please feel free to contact the undersigned by e-mail at jetienne@grandriver.ca or by phone at (519) 621-2761 x2298 if you require any clarification of these comments.

Sincerely,

A handwritten signature in black ink, appearing to read "James Etienne".

James Etienne, P.Eng.,
Sr. Water Resources Engineer

JE/

c.c.: George Sousa, Lorrie Minshall, Sandra Cooke, Drew Cherry – GRCA
Member of Chris Hamel - AECOM



ISO 14001 Registered

Canadian
Heritage
Rivers
System





Votre référence - Your file

09 JUIN 2010

Notre référence - Our file

Chris Campbell
Aecom
105 Commerce Valley Drive West
Markham, ON Canada L3T 7W3

Dear Mr. Campbell:

**Re: Notice of Study Commencement and Public Information Centre #1
Sustainable Halton Water and Wastewater Master Plan Municipal
Class Environmental Assessment Study**

I am writing in response to your letter of May 14, 2010 inquiring about any claims that may affect the subject property. I regret that we were unable to respond earlier.

We can inform you that our inventory includes active litigation (cases) in the vicinity of this property. It is ***Six Nations of the Grand River Band of Indians v. Attorney General for Canada and Her Majesty the Queen in Right of Ontario, Ontario Superior Court of Justice, filed in Brantford, court reference number 406/95.***

I am unable to comment with respect to the possible effect of this claim as the case has not yet been adjudicated and any statement regarding the outcome of the litigation would be speculative at this point. It is recommended that you consult legal counsel as to the effect this action could have on the lands you are concerned with.

If you are interested in further details about this claim, copies of the pleadings can be obtained from the Court for a fee. Please contact the appropriate Court Registry Office and make reference to the court file number listed above.

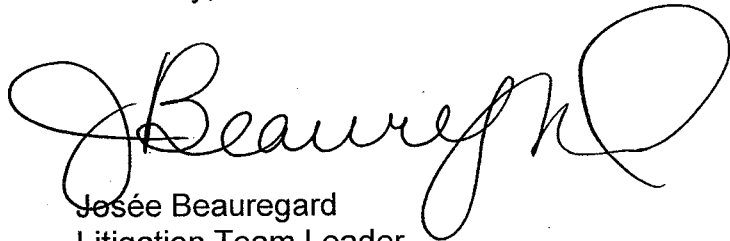
We cannot make any comments regarding claims filed under other departmental policies. For information on any claims you should also contact Don Boswell of the Specific Claims Branch at (819) 953-1940 to inquire about any Specific Claims.

.../2

To inquire about any current Comprehensive Claims, please contact Nicole Cheechoo of Treaty and Aboriginal Government Central Operations at (819) 997-3499.

If you have any further questions please do not hesitate to contact me at (819)994-1947.

Sincerely,

A handwritten signature in black ink, appearing to read "Josée Beauregard". The signature is fluid and cursive, with a large loop at the end.

Josée Beauregard
Litigation Team Leader
Eastern Litigation Directorate
Litigation Management and Resolution Branch

DISCLAIMER: In this Disclaimer, "Canada" means Her Majesty the Queen in right of Canada and the Minister of Indian Affairs and Northern Development and their servants and agents. Canada does not warrant or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any data or information disclosed with this correspondence or for any actions in reliance upon such data or information or on any statement contained in this correspondence. Data and information is based on information in departmental records and is disclosed for convenience of reference only. Canada does not act as a representative for any Aboriginal group for the purpose of any claim. Information from other government sources and private sources (including Aboriginal groups) should be sought, to ensure that the information you have is accurate and complete.

GOVERNMENT / AGENCIES

LETTERS SENT

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 12:50 PM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation
Attachments: Preferred Water Servicing Strategy.doc; 60114062-230-W Halton Preferred Water Servicing Strategy DC.pdf; Water Capital Implementation Program.xls

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Wednesday, August 10, 2011 6:45 PM
To: Johnston, David (MNR)
Cc: Pounder, Kathryn (MNR); Whitbread, Ken (MNR); Duong, John; Hamel, Chris; Campbell, Chris
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi David,

Thanks for your reply.

In support of the detailed technical binders which you will be receiving shortly, I wanted to forward you the corresponding water servicing strategy, mapping and associated draft capital implementation program. I will ask John Duong to do the same for wastewater information.

We will be proposing an alternate meeting date for early September shortly. In the interim, please feel free to contact myself or John Duong at any time.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601

From: Johnston, David (MNR) [<mailto:david.johnston@ontario.ca>]
Sent: Thursday, August 04, 2011 2:38 PM
To: Simpson, David
Cc: Pounder, Kathryn (MNR); Whitbread, Ken (MNR); Duong, John; Hamel, Chris; Campbell, Chris
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

David,

I am on vacation the last two weeks of this month and won't be available and neither will Ms. Pounder be available for a meeting.

I return on September 6th but I fully expect to be quite busy playing catch-up that week. I do have pre-hearing teleconferences for early that week and a meeting in the afternoon of September 7th. Perhaps the week following would be better for me. In my absence, you can contact Ken Whitbread.

DJ

David Johnston

Planner, Niagara Escarpment Commission
232 Guelph St. Georgetown, ON L7G 4B1

www.escarpment.org

Tel. 905-877-7815

Fax 905-873-7452

From: Simpson, David [<mailto:David.Simpson@halton.ca>]

Sent: Wednesday, August 03, 2011 5:52 PM

To: Johnston, David (MNR)

Cc: Pounder, Kathryn (MNR); Whitbread, Ken (MNR); Duong, John; Hamel, Chris; Campbell, Chris

Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi David,

The Sustainable Halton Water and Wastewater Master Plan project team are working towards providing NEC staff a "Strategy and Project File Binder" which will provide you and your staff additional background information pertaining to the preferred capital implementation program projects.

Specifically, we will be forwarding the preferred water and wastewater servicing strategy (mapping and capital implementation programs) along with a binder volumes (one water binder, one wastewater binder) which provides documentation on the detailed evaluation process, supporting information, schematics, aerial alignment drawings, pipeline profiles for the more involved Sch A+, B and C projects. We intend to send this information to you next week and subsequent to that, we will be forwarding the Hydro-geological Baseline Report which documents our analysis pertaining to proposed increased groundwater takings in North Halton.

We are hopeful that a preconsultation period of approximately 4 weeks should be suffice to review the Master Plan information given that we are intending to file the NOC in early October. To help facilitate this process, we are available to meet at NEC on Aug 31 or Sep 1 to further review the project details. Also, any additional review and clarification can be provided during the formal 45 day review period after we file the NOC.

I would like to keep a potential placeholder for these dates in order to meet with staff. Upon receipt of the above information, please liaise with your staff and ascertain interest in meeting with our project team. We would be more than happy to discuss the project information in more detail with your team and can come to your office to aid in convenience.

We look forward to your comments and feedback.

Thanks,

David

David Simpson, P.Eng.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7601

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 12:48 PM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation
Attachments: Wastewater_Capital_Program.xlsx; WW strategy map.pdf; WW Cap Program description.pdf

From: Duong, John [<mailto:John.Duong@halton.ca>]
Sent: Thursday, August 11, 2011 3:08 PM
To: Simpson, David; Johnston, David (MNR)
Cc: Pounder, Kathryn (MNR); Whitbread, Ken (MNR); Hamel, Chris; Campbell, Chris
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

David,

Similar to the water program, attached are the documents for the Wastewater Capital program.

John Duong, M.Eng., P.Eng.
Manager Wastewater Planning
Public Works
Tel 905-825-6000 ext7961

From: Simpson, David
Sent: Wednesday, August 10, 2011 6:45 PM
To: 'Johnston, David (MNR)'
Cc: Pounder, Kathryn (MNR); Whitbread, Ken (MNR); Duong, John; Hamel, Chris; Campbell, Chris
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi David,

Thanks for your reply.

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We will be proposing an alternate meeting date for early September shortly. In the interim, please feel free to contact myself or John Duong at any time.

Thanks,

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Tel: 905-825-6000 ext. 7601

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DJ

David Johnston

Planner, Niagara Escarpment Commission
232 Guelph St. Georgetown, ON L7G 4B1
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Fax 905-873-7452

From: Simpson, David [mailto:David.Simpson@halton.ca]
Sent: Wednesday, August 03, 2011 5:52 PM
To: Johnston, David (MNR)
Cc: Pounder, Kathryn (MNR); Whitbread, Ken (MNR); Duong, John; Hamel, Chris; Campbell, Chris
Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

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We look forward to your comments and feedback.

Thanks,

David

David Simpson, P.Eng.

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 11:51 AM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Wednesday, August 03, 2011 5:37 PM
To: Dougherty, Jennifer
Cc: KChisholme@creditvalleyca.ca; Marray, Liam; Kinkead, John; JCampbell@creditvalleyca.ca; bmorris@creditvalleyca.ca; Duong, John; Hamel, Chris; Campbell, Chris
Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

The Sustainable Halton Water and Wastewater Master Plan project team are working towards providing Credit Valley Conservation staff a "Strategy and Project File Binder" which will provide you and your staff additional background information pertaining to the preferred capital implementation program projects.

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We look forward to your comments and feedback.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 12:49 PM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation
Attachments: Preferred Water Servicing Strategy.doc; 60114062-230-W Halton Preferred Water Servicing Strategy DC.pdf; Water Capital Implementation Program.xls

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Wednesday, August 10, 2011 6:48 PM
To: Jennifer Lawrence
Cc: Hamel, Chris; Campbell, Chris; Duong, John
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

Thanks for your reply.

In support of the detailed technical binders which you will be receiving shortly, I wanted to forward you the corresponding water servicing strategy, mapping and associated draft capital implementation program. I will ask John Duong to do the same for wastewater information.

We will be proposing an alternate meeting date for early September shortly. In the interim, please feel free to contact myself or John Duong at any time.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601

From: Jennifer Lawrence [<mailto:jlawrence@hrca.on.ca>]
Sent: Monday, August 08, 2011 12:04 PM
To: Simpson, David
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi David,
A couple of staff are away on holidays that week. Would the next week work? If so, can you suggest a couple of dates that work for you and your team?
Thanks.
Jennifer

Jennifer Lawrence, MCIP, RPP
Manager, Environmental Planning
Conservation Halton

Ph: 905-336-1158 ex. 266
Fax: 905-336-6684
www.conservationhalton.ca

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: August 3, 2011 5:31 PM
To: Jennifer Lawrence
Cc: Hamel, Chris; Campbell, Chris; Duong, John
Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

As discussed during our telephone conversation today, the Sustainable Halton Water and Wastewater Master Plan project team are working towards providing Conservation Halton staff a "Strategy and Project File Binder" which will provide you and your staff additional background information pertaining to the preferred capital implementation program projects.

Specifically, we will be forwarding the preferred water and wastewater servicing strategy (mapping and capital implementation programs) along with a binder volumes (one water binder, one wastewater binder) which provides documentation on the detailed evaluation process, supporting information, schematics, aerial alignment drawings, pipeline profiles for the more involved Sch A+, B and C projects. We intend to send this information to you next week and subsequent to that, we will be forwarding the Hydro-geological Baseline Report which documents our analysis pertaining to proposed increased groundwater takings in North Halton.

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I would like to keep a potential placeholder for these dates in order to meet with staff. Upon receipt of the above information, please liaise with your staff and ascertain interest in meeting with our project team. We would be more than happy to discuss the project information in more detail with your team and can come to your office to aid in convenience.

We look forward to your comments and feedback.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 12:49 PM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation
Attachments: Wastewater_Capital_Program.xlsx; WW strategy map.pdf; WW Cap Program description.pdf

From: Duong, John [<mailto:John.Duong@halton.ca>]
Sent: Thursday, August 11, 2011 3:07 PM
To: Simpson, David; Jennifer Lawrence
Cc: Hamel, Chris; Campbell, Chris
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

Similar to the water program, attached are the documents for the Wastewater Capital program.

John Duong, M.Eng., P.Eng.
Manager Wastewater Planning
Public Works
Tel 905-825-6000 ext7961

From: Simpson, David
Sent: Wednesday, August 10, 2011 6:48 PM
To: 'Jennifer Lawrence'
Cc: Hamel, Chris; Campbell, Chris; Duong, John
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

Thanks for your reply.

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We will be proposing an alternate meeting date for early September shortly. In the interim, please feel free to contact myself or John Duong at any time.

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From: Jennifer Lawrence [<mailto:jlawrence@hrca.on.ca>]
Sent: Monday, August 08, 2011 12:04 PM
To: Simpson, David
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

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A couple of staff are away on holidays that week. Would the next week work? If so, can you suggest a couple of dates that work for you and your team?
Thanks.
Jennifer

Jennifer Lawrence, MCIP, RPP
Manager, Environmental Planning
Conservation Halton
Ph: 905-336-1158 ex. 266
Fax: 905-336-6684
www.conservationhalton.ca

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: August 3, 2011 5:31 PM
To: Jennifer Lawrence
Cc: Hamel, Chris; Campbell, Chris; Duong, John
Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

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You indicated that a preconsultation period of approximately 4 weeks should suffice to review the Master Plan information given that we are intending to file the NOC in early October. To help facilitate this process, we are available to meet at Conservation Halton on Aug 31 or Sep 1 to further review the project details. Although you mentioned you are on holidays that week, you may be able to consult and brief with your staff regarding any potential project concerns or issues prior such that they can be presented to our team in your absence.

I would like to keep a potential placeholder for these dates in order to meet with staff. Upon receipt of the above information, please liaise with your staff and ascertain interest in meeting with our project team. We would be more than happy to discuss the project information in more detail with your team and can come to your office to aid in convenience.

We look forward to your comments and feedback.

Thanks,

David

David Simpson, P.Eng.

Manager of Water Planning

Water Services, Public Works

Regional Municipality of Halton

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-

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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 12:50 PM
To: Bhabha, Fatima; Borowiec, Laura
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation
Attachments: Preferred Water Servicing Strategy.doc; 60114062-230-W Halton Preferred Water Servicing Strategy DC.pdf; Water Capital Implementation Program.xls

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: Wednesday, August 10, 2011 6:43 PM
To: Chisholme, Karen
Cc: Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Duong, John; Hamel, Chris; Campbell, Chris; Dougherty, Jennifer
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Karen,

In support of the detailed technical binders which you will be receiving shortly, I wanted to forward you the corresponding water servicing strategy, mapping and associated draft capital implementation program. I will ask John Duong to do the same for wastewater information.

We will confirm timing for the meeting date of August 31 with your staff. In the interim, please feel free to contact myself or John Duong at any time.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
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Thank you

From: Chisholme, Karen [<mailto:KChisholme@creditvalleyca.ca>]
Sent: Wednesday, August 10, 2011 2:09 PM

To: Simpson, David; Dougherty, Jennifer

Cc: Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Duong, John; Hamel, Chris; Campbell, Chris

Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi David,

I am coordinating this project in Liam's absence. CVC staff are available to meet on August 31st in the afternoon. We have not yet received the documents you spoke of in your email but trust they will be in our office shortly. A quick review prior to our meeting will certainly help facilitate our discussions.

I will get our staff to hold the afternoon of August 31st and await your confirmation on the time and location of the meeting.

Kind regards,

Karen

Karen Chisholme
Planning Ecologist
Credit Valley Conservation
1255 Old Derry Road
Mississauga, Ontario
L5N 6R4
Tel: 905-670-1615 ext. 292
Fax: 905-670-2210

From: Simpson, David [<mailto:David.Simpson@halton.ca>]

Sent: August 3, 2011 5:37 PM

To: Dougherty, Jennifer

Cc: Chisholme, Karen; Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Duong, John; Hamel, Chris; Campbell, Chris

Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

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Thanks,

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Website: www.halton.ca



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Thank you

Bhabha, Fatima

From: Campbell, Chris
Sent: Monday, August 15, 2011 12:48 PM
To: Borowiec, Laura; Bhabha, Fatima
Subject: FW: Sustainable Halton Water & Wastewater Master Plan Preconsultation
Attachments: Wastewater_Capital_Program.xlsx; WW strategy map.pdf; WW Cap Program description.pdf

From: Duong, John [mailto:John.Duong@halton.ca]
Sent: Thursday, August 11, 2011 3:09 PM
To: Simpson, David; Chisholme, Karen
Cc: Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Hamel, Chris; Campbell, Chris; Dougherty, Jennifer
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Karen,

Similar to the water program, attached are the documents for the Wastewater Capital program.

John Duong, M.Eng., P.Eng.
Manager Wastewater Planning
Public Works
Tel 905-825-6000 ext7961

From: Simpson, David
Sent: Wednesday, August 10, 2011 6:43 PM
To: 'Chisholme, Karen'
Cc: Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Duong, John; Hamel, Chris; Campbell, Chris; Dougherty, Jennifer
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Karen,

In support of the detailed technical binders which you will be receiving shortly, I wanted to forward you the corresponding water servicing strategy, mapping and associated draft capital implementation program. I will ask John Duong to do the same for wastewater information.

We will confirm timing for the meeting date of August 31 with your staff. In the interim, please feel free to contact myself or John Duong at any time.

Thanks,

David

David Simpson, P.Eng.
Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866



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Thank you

From: Chisholme, Karen [<mailto:KChisholme@creditvalleyca.ca>]
Sent: Wednesday, August 10, 2011 2:09 PM
To: Simpson, David; Dougherty, Jennifer
Cc: Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Duong, John; Hamel, Chris; Campbell, Chris
Subject: RE: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi David,

I am coordinating this project in Liam's absence. CVC staff are available to meet on August 31st in the afternoon. We have not yet received the documents you spoke of in your email but trust they will be in our office shortly. A quick review prior to our meeting will certainly help facilitate our discussions.

I will get our staff to hold the afternoon of August 31st and await your confirmation on the time and location of the meeting.

Kind regards,

Karen

Karen Chisholme
Planning Ecologist
Credit Valley Conservation
1255 Old Derry Road
Mississauga, Ontario
L5N 6R4
Tel: 905-670-1615 ext. 292
Fax: 905-670-2210

From: Simpson, David [<mailto:David.Simpson@halton.ca>]
Sent: August 3, 2011 5:37 PM
To: Dougherty, Jennifer
Cc: Chisholme, Karen; Marray, Liam; Kinkead, John; Campbell, Joshua; Morris, Bob; Duong, John; Hamel, Chris; Campbell, Chris
Subject: Sustainable Halton Water & Wastewater Master Plan Preconsultation

Hi Jennifer,

The Sustainable Halton Water and Wastewater Master Plan project team are working towards providing Credit Valley Conservation staff a "Strategy and Project File Binder" which will provide you and your staff additional background information pertaining to the preferred capital implementation program projects.

Specifically, we will be forwarding the preferred water and wastewater servicing strategy (mapping and capital implementation programs) along with a binder volumes (one water binder, one wastewater binder) which provides documentation on the detailed evaluation process, supporting information, schematics, aerial alignment drawings, pipeline profiles for the more involved Sch A+, B and C projects. We intend to send this information to you next week and subsequent to that, we will be forwarding the Hydro-geological Baseline Report which documents our analysis pertaining to proposed increased groundwater takings in North Halton.

We are hopeful that a preconsultation period of approximately 4 weeks should be suffice to review the Master Plan information given that we are intending to file the NOC in early October. To help facilitate this process, we are available to meet at Credit Valley Conservation on Aug 31 or Sep 1 to further review the project details. Although you mentioned you are on holidays that week, you may be able to consult and brief with your staff regarding any potential project concerns or issues prior such that they can be presented to our team in your absence. Also, any additional review and clarification can be provided during the formal 45 day review period after we file the NOC.

I would like to keep a potential placeholder for these dates in order to meet with staff. Upon receipt of the above information, please liaise with your staff and ascertain interest in meeting with our project team. We would be more than happy to discuss the project information in more detail with your team and can come to your office to aid in convenience.

We look forward to your comments and feedback.

Thanks,

David

David Simpson, P.Eng.

Manager of Water Planning
Water Services, Public Works
Regional Municipality of Halton
1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7601
Toll free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca



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Thank you



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

October 7, 2011

Bob Thomson
Trout Unlimited Canada
Greg Clark Chapter
P.O. Box 1014, Station Q
Toronto, ON
M5T 2P2

Dear Mr. Thomson,

**RE: SUSTAINABLE HALTON WATER AND WASTEWATER MASTER PLAN
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY**

Thank you for your interest in the Sustainable Halton Water and Wastewater Master Plan Study. We appreciate the comments you have provided as part of the second round of public consultation.

Having reviewed and considered all comments received throughout the study, Halton Region has completed the Water and Wastewater Master Plan documentation. The Report recommends a preferred long term servicing strategy for the design and operation of all municipal water and wastewater systems in the Region, integrating existing and future servicing needs to the year 2031, with consideration beyond this timeframe.

This study has been undertaken in accordance with the requirements for master plans under Section 4, Approach #2 of the Municipal Class Environmental Assessment (EA) document (October 2000 as amended in 2007) which is approved under the Ontario Environmental Assessment Act, and will satisfy Phase 1 and 2 of the planning process. Under this approach, the study intends to fulfill the requirements for Schedule A, A+ and B projects. Halton Region has identified Schedule C projects that will follow on with separate studies in order to fulfill Phases 3 and 4 of the Municipal Class EA Requirements.

As you are aware, the Preliminary Preferred Water and Wastewater Servicing Strategy was presented to the public and stakeholders in February/March 2011 and refined based on feedback received. The final Preferred Servicing Strategy is provided in the Master Plan Report along with documentation of the evaluation and decision-making processes undertaken.

The final Master Plan documentation, which consists of three volumes, will be made available to the public for 30 calendar days, starting October 13, 2011 and ending November 14, 2011. The Report will be available for public review at the locations noted in the enclosed Notice of Completion.

The Regional Municipality of Halton

We have reviewed all comments received and can respond to your comments regarding the Preliminary Preferred Servicing Strategy as presented in the second round of public consultation.

In your comments, you focused on the servicing strategies for the Acton and Georgetown communities. Please see a summary of the preferred water and wastewater servicing strategies below.

Preferred Water Servicing Strategies for Acton and Georgetown

The Preferred Water Servicing Strategy for Acton will maintain the existing and future service areas on groundwater servicing while increasing groundwater capacity at the Fourth Line and Prospect Park Well Fields, as well as providing additional new groundwater capacity. Future treatment redundancy would be provided through centralization of the Davidson and Fourth Line Well Systems.

The Preferred Water Servicing Strategy for Georgetown will maintain an area of Georgetown on the existing groundwater system, while extending infrastructure servicing to some areas of Georgetown from the South Halton Lake Based System. To support the groundwater system, an increase in water taking from Lindsay Court and Cedarvale well fields is required, while the Princess Anne Well will be maintained.

As part of the Master Plan Study, groundwater modeling was undertaken to determine the approximate groundwater quantities required to meet existing and future growth needs beyond the current Permit To Take Water (PTTW) in a sustainable manner. Existing system conditions and alternative water solutions that have led to this strategy are documented in Sections 7 through 9 of the Master Plan Report.

Preferred Wastewater Servicing Strategies for Acton and Georgetown

The Preferred Wastewater Servicing Strategy for Acton will be to continue to service Acton through the Acton WWTP, expand the capacity at the Acton WWTP, and provide local servicing improvements to service new growth as required.

The Preferred Wastewater Servicing Strategy for Georgetown will be to maximize the existing service areas to the Georgetown WWTP. Areas within Georgetown South and Southwest Georgetown will be serviced via the South Halton Lake Based System via an extended wastewater collection system.

Assimilative capacities of the receiving streams were considered in the evaluation and decision making process undertaken to identify the preferred servicing strategy and is presented in Section 12 of the Report.

In addition to the environmental baseline study undertaken as part of this study, the Master Plan also review other related study findings to help support our understanding of each system's

environmental baseline conditions. The Environmental Baseline study findings are summarized in Section 5 of the Report.

Integral to the overall water servicing strategy is Halton's water efficiency program. Specifically, through analysis of the Region's water efficiency program and design criteria, a 5% reduction (average day demand reduction of ~16 litres per capital per day) residential growth water use for the Region moving forward was utilized as a foundation in the Master Plan. This target is integrated into the timing of the infrastructure program as well as integrated into the decision making for maintaining the Georgetown and Milton groundwater service areas.

Projects identified through the Master Plan will go on to further studies and implementation will require consultation with conservation authorities and other approval agencies to decide next steps and fulfill the appropriate permit requirements.

During the subsequent steps of project implementation, primarily during detailed design, the following requirements will be considered:

- Finalization of property requirements
- Final refinement of infrastructure alignment and facility siting
- Final refinement of construction methodologies
- Completion of additional supporting investigations as required such as geotechnical, hydrogeotechnical and site specific environmental studies
- Review and mitigation of potential construction related impacts
- Completion of all approval requirements including but not limited to provincial approvals (MOE, MNR), local municipality approvals (site plans, building permits), and conservation authority approvals (CH, CVC, NEC).

The next steps in the Master Planning process are as follows:

- Address any comments received post-filing
- Schedule A, A+ and Schedule B Projects not requiring further study would move forward to implementation based on the identified schedule
- Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule
- Key follow on studies would be undertaken as required

We invite you to view the final Master Plan documentation at any of the five locations identified in the enclosed Notice of Completion. Should you have any comments or additional questions regarding the study, please feel free to contact David Simpson at 905-825-6000 ext. 7601 (via email at david.simpson@halton.ca) or John Duong at 905-825-6000 ext. 7961 (via email at john.duong@halton.ca). You can also contact Chris Hamel at 905-747-7562 (via email at chris.hamel@aecom.com).

Sincerely,



**Public Works
Water and Wastewater Services
1151 Bronte Road
Oakville ON L6M 3L1**

Halton Region

A handwritten signature in black ink, appearing to read "David Simpson".

David Simpson, P.Eng.
Manager of Water Planning

Halton Region

A handwritten signature in black ink, appearing to read "John Duong".

John Duong, P.Eng.
Manager of Wastewater Planning

AECOM Canada Ltd.

A handwritten signature in blue ink, appearing to read "Chris Hamel".

Chris Hamel, P.Eng.
Project Manager

encl.

OTHER DOCUMENTATION

Presentation to Milton Realtors – June 17, 2011

Mitch Zamojc, P.Eng.,
Commissioner, Public Works Department



Outline

- Overview of Public Works Department
- Water Services Program
 - Sustainable Halton Master Plan
 - Significant Water Capital Projects
- Wastewater Services Program
 - Sustainable Halton Master Plan
 - Significant Wastewater Capital Projects
- Questions

Halton's Public Works Department

Halton Region's Public Works (PW) Department provides critical and essential services to the community. PW ensures high quality service delivery whether it is supplying residents with

- safe, clean drinking water
- treating sewage in state-of-the-art facilities
- constructing and maintaining regional roads for the safe travel of people and
- goods, waste and recycling collection, or protecting the environment.

Water Services Program



Water Services Program

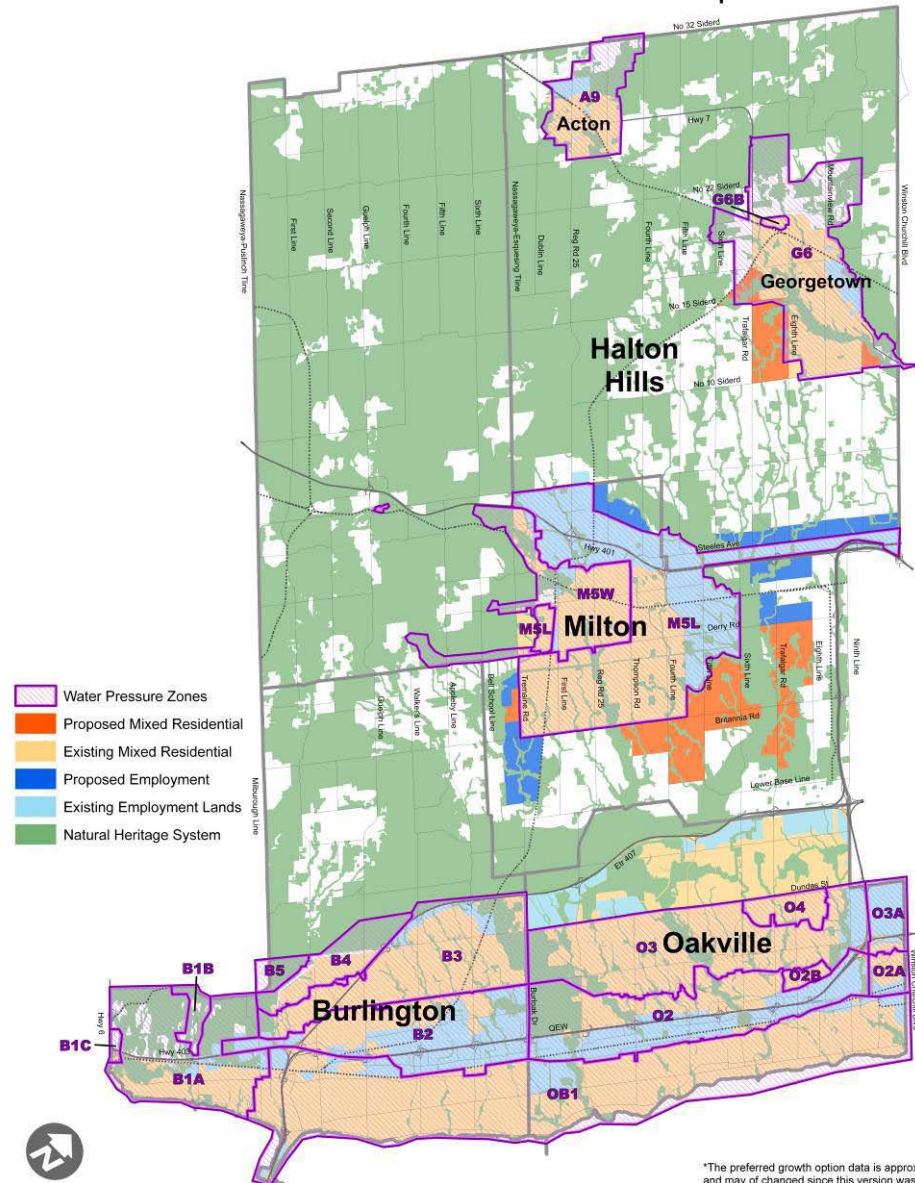
The Water Service Division is responsible for all aspects related to the delivery of the Water Program including:

- Planning
- Design and construction
- Operation and Maintenance; and
- Overall management of over \$2.7 billion in water infrastructure

Halton Water System and Pressure Zones

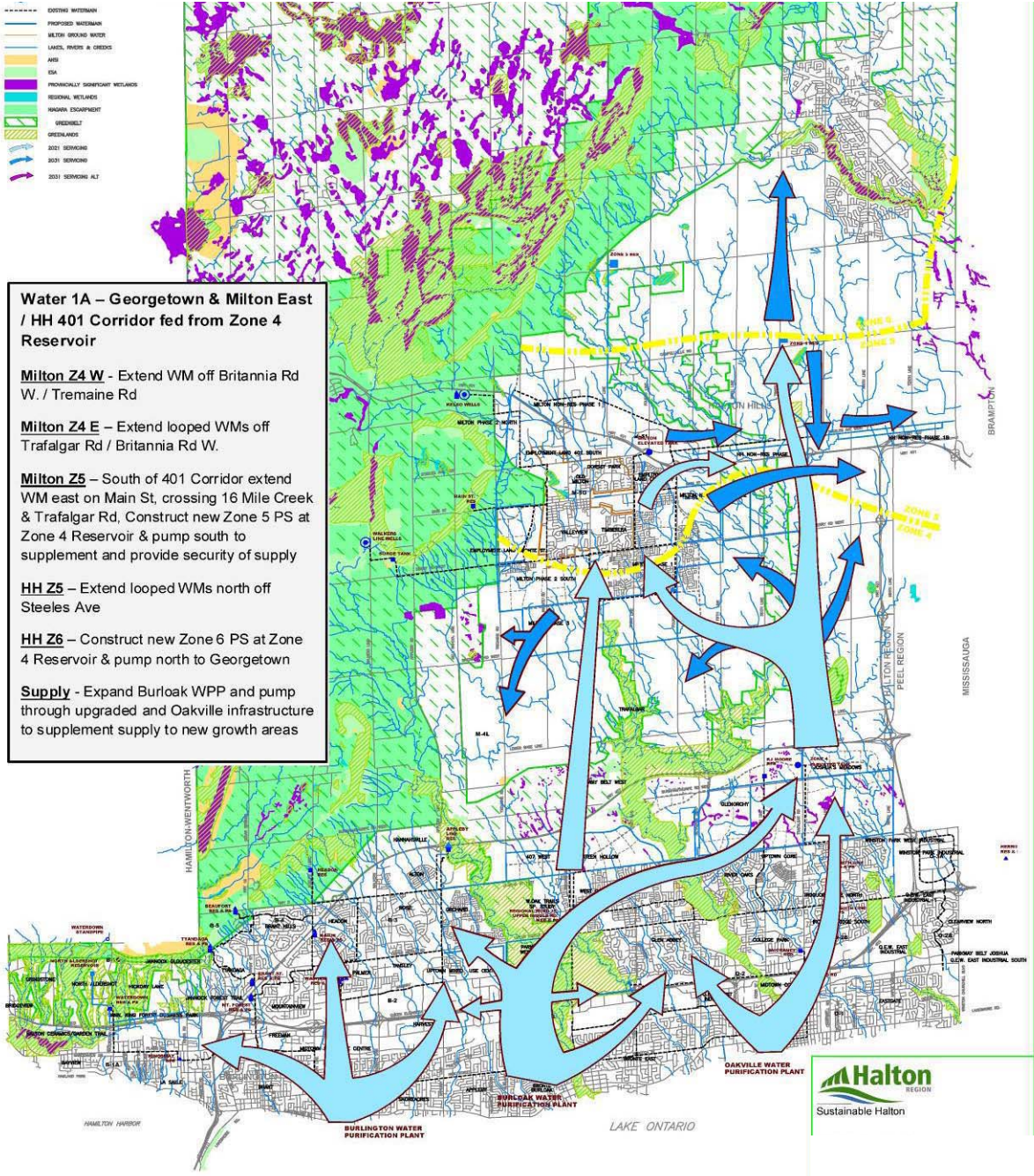
- Number of Pressure Zones across the four municipalities
- Water systems are “connected”

Water Pressure Zones and the Preferred Growth Option*



*The preferred growth option data is approximate and may be changed since this version was created.
 *For more accurate landuse data refer to ROPA 38.

Sustainable Halton Preferred Water Servicing Strategy



Milton's Water System

The Town of Milton is unique in that it relies on groundwater and surface water supplies for its potable water.

1) Groundwater:

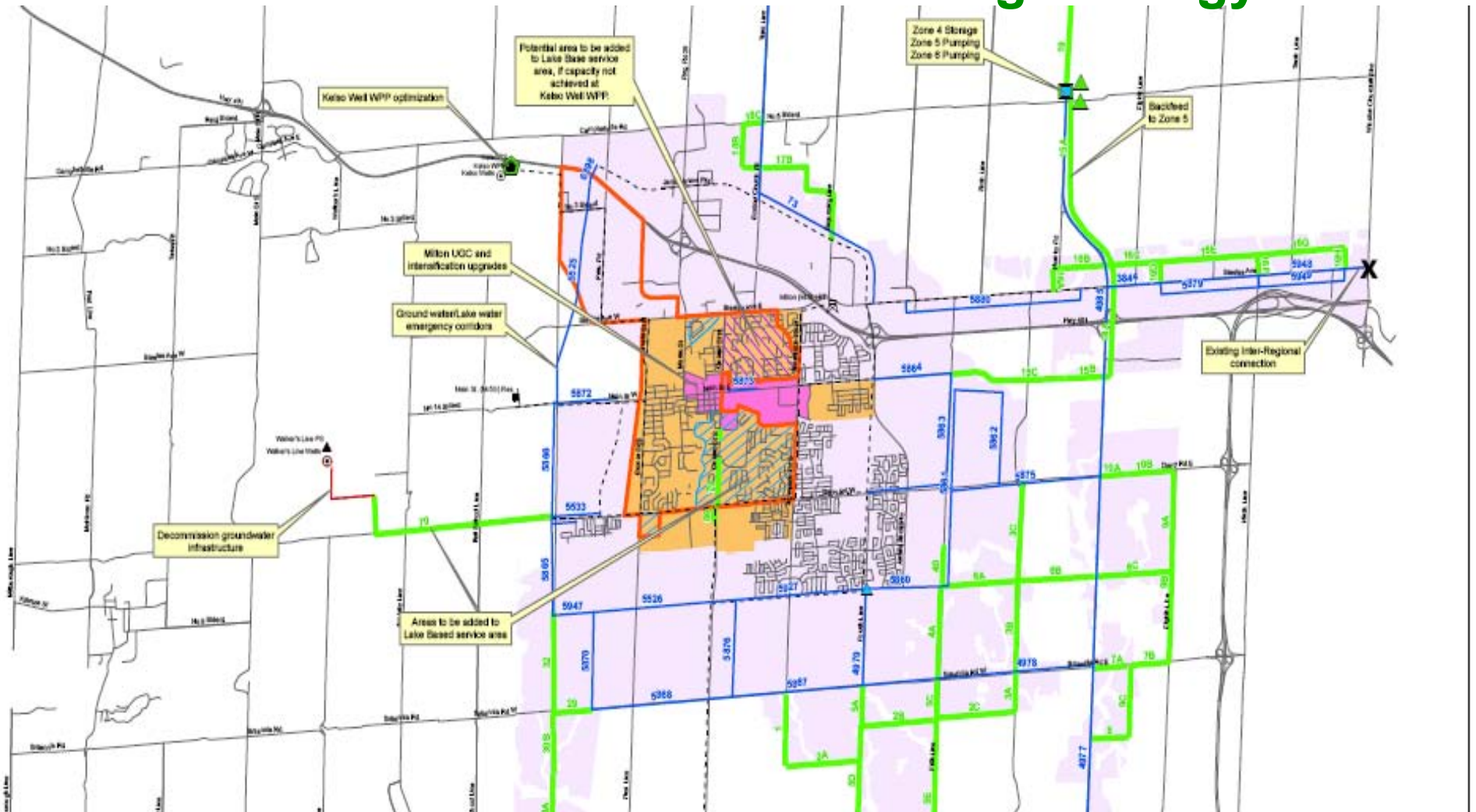
- Consists of 2 well fields: Kelso and Walkers Line

2) Surface Water:

- Treated surface (Lake Ontario) water from South Halton is pumped to the Steeles Water Tower to provide water for the new growth in Milton and the Halton Hills 401 Corridor

Sustainable Halton

Milton Preferred Water Servicing Strategy



Significant Water Capital Projects - Milton

- **Second Feed Watermain to Milton**

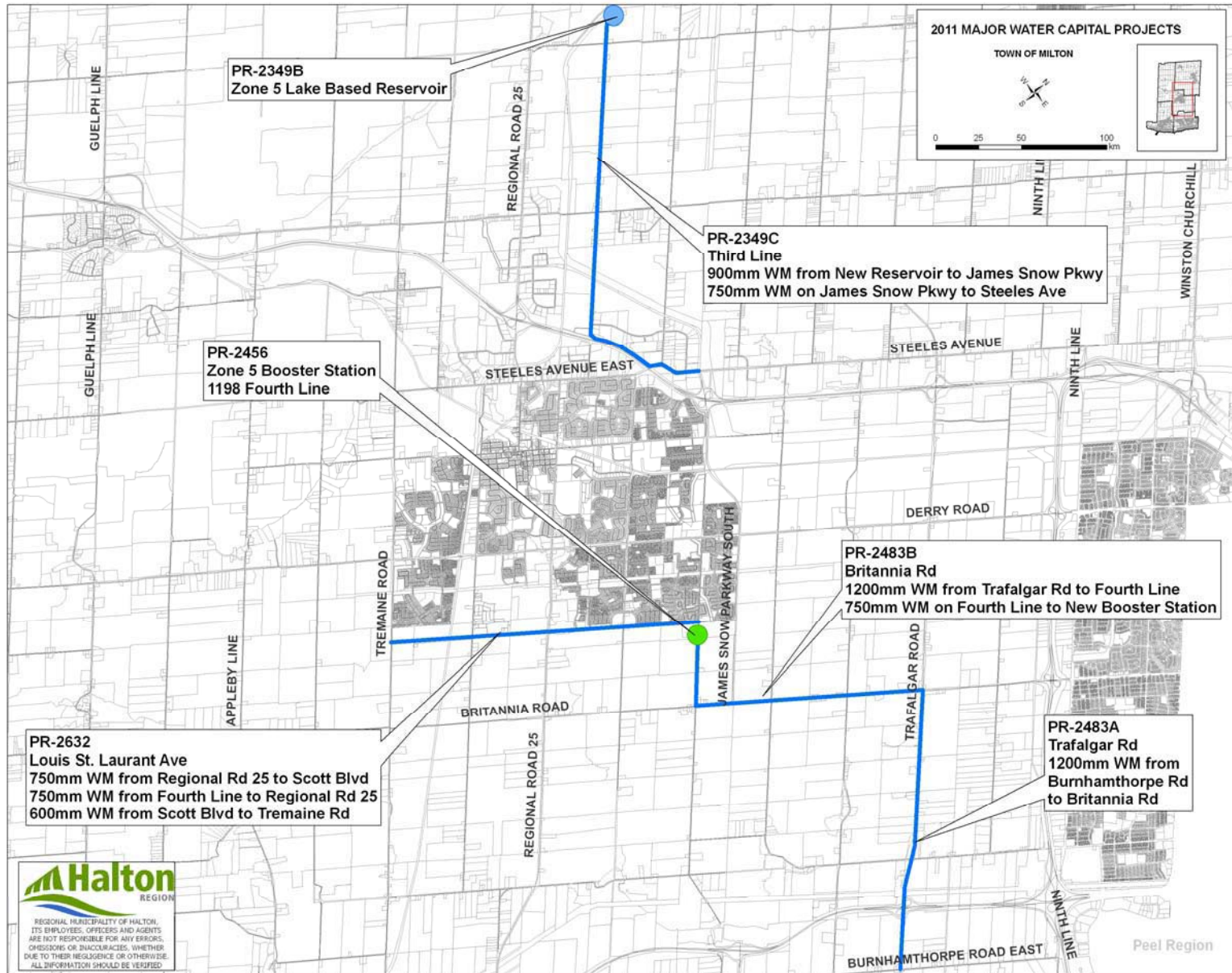
- Ensures security of water supply and additional capacity to Milton and Halton Hills 401 Corridor
- Construction of two large diameter water feeder mains is underway
- Planned in-service date October 2011

- **Zone 5 Booster Pump Station**

- Part of second watermain feed to North Milton (2008-2009 Allocation Program – Phase 1)
- Construction is underway
- Planned in-service date July 2012

Significant Water Capital Projects - Milton

- **Watermain on Louis St. Laurent Avenue**
 - Construction of new watermain to service new development in Milton
 - Construction scheduled to begin September 2011
 - Planned in-service date July 2012
- **Zone 5 Water Feedermain**
 - Feedermain to convey water to and from the New Zone 5 Reservoir (*Third Line & 10 Side Road, Halton Hills*)
 - Planned in-service date July 2012



Significant Water Capital Projects – Oakville

- **Burloak Water Purification Plant (3380 Rebecca Street, Oakville)**
 - To increase plant capacity to manage growth, EA process is currently underway
- **Oakville Water Purification Plant Upgrade (21 Kerr Street, Oakville)**
 - Construction to begin 2012, planned in-service date of 2014
- **Watermain Zone 3 Kitchen Pumping Station to Bronte Road (Oakville)**
 - Part of second watermain feed to Milton-South & supply to Oakville, construction scheduled to begin fall 2011, planned in-service date of July 2012
- **Watermain on Neyagawa Blvd and Burnhamthorpe (Oakville)**
 - Part of second watermain feed to Milton-South & supply to Oakville, construction scheduled to begin June 2011, planned in-service date July 201

Significant Water Capital Projects – Halton Hills

- **Zone 5 Reservoir** (Third Line and 10 Side Road, Georgetown):
 - Additional water storage for growth in Milton and the Halton Hills 401 Corridor
 - Construction is underway
 - Planned in-service date July 2012
- **Georgetown Todd Road New Elevated Water Tower** (15 Todd Road, Georgetown)
 - Construction is underway to replace existing water tower and add storage capacity for growth
 - Planned in-service date summer 2011

Wastewater Services Program



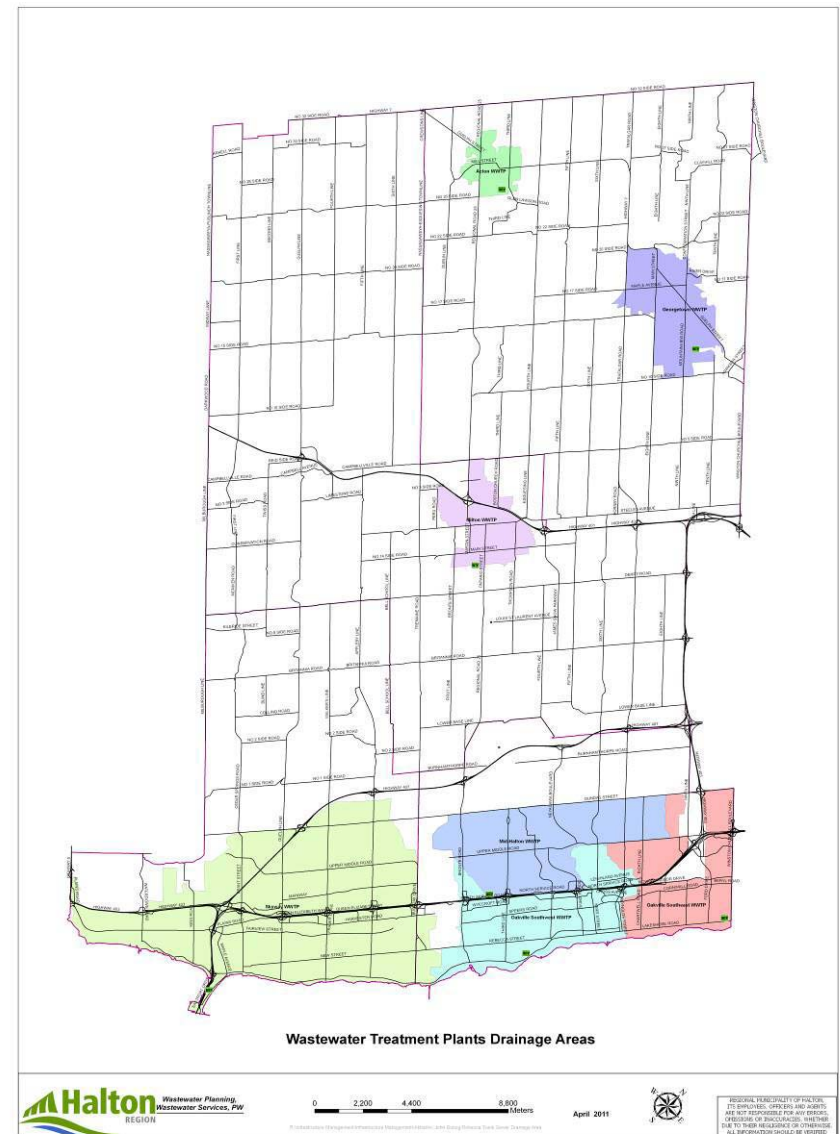
Wastewater Services Program

The Wastewater Services Division is responsible for all activities related to the collection and treatment of municipal wastewater including:

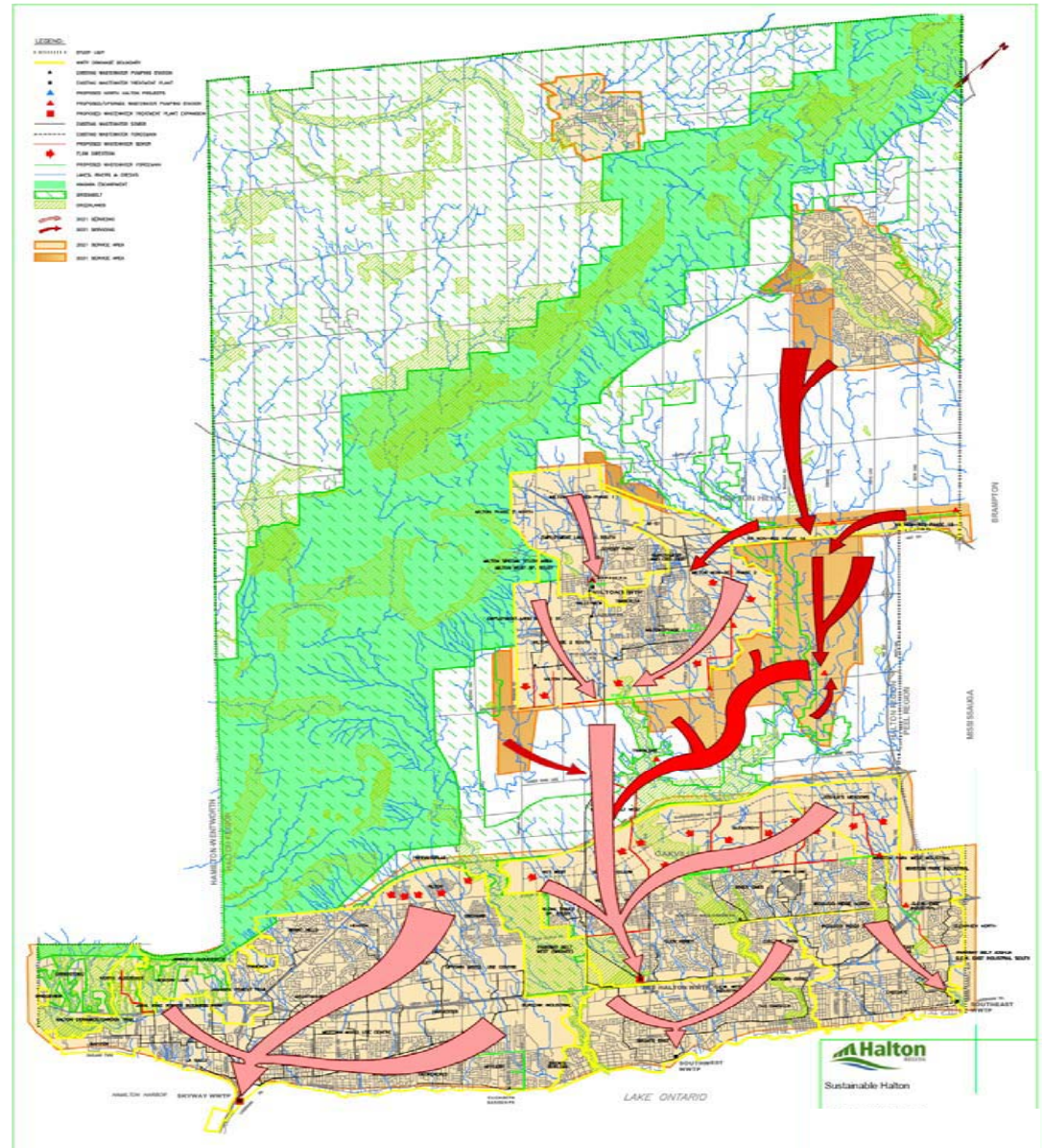
- Planning
- Design and Construction
- Operation and Maintenance and;
- Overall management of over \$2.9 billion in wastewater infrastructure

Halton Wastewater Treatment Plants

- 1 in City of Burlington (Skyway WWTP)
- 3 in Town of Oakville (Mid Halton; Oakville SE; Oakville SW WWTP's)
- 1 in Town of Milton (Milton WWTP)
- 2 in Town of Halton Hills (Acton and Georgetown WWTP's)



Sustainable Halton Preferred Wastewater Servicing Strategy



Milton's Wastewater System

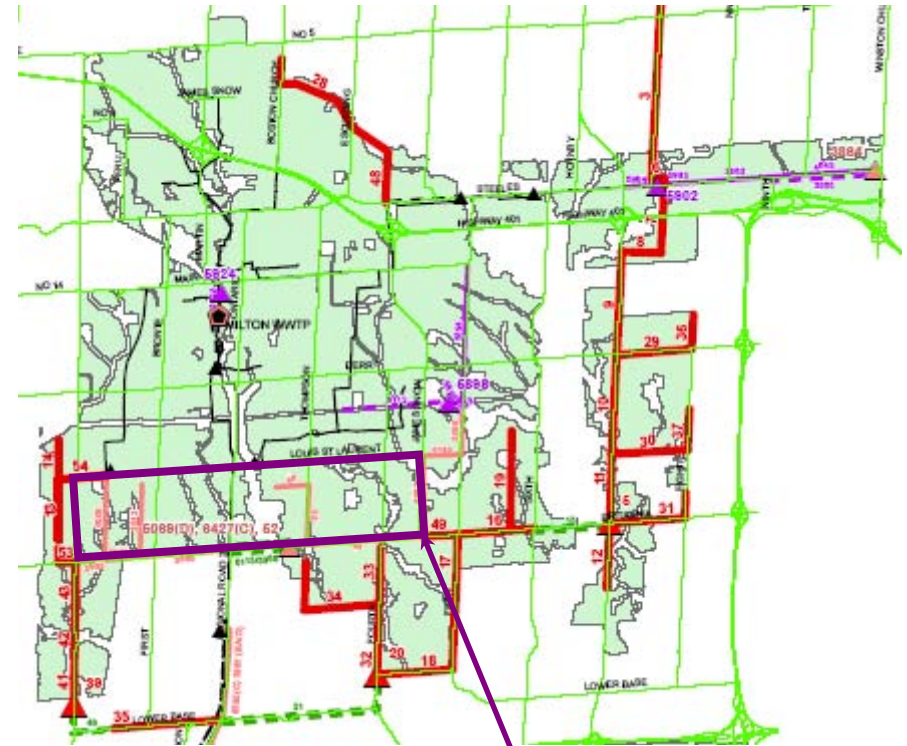
Wastewater from the Town of Milton is treated at one of the two facilities:

- 1) **Milton WWTP**
- 2) **Mid Halton WWTP**

Sustainable Halton

Milton Wastewater Servicing Strategy

- Preferred wastewater servicing strategy for Milton is as follows:
 - Divert flows to Mid Halton WWTP
 - Upgrade Fulton WWPS at Milton WWTP
 - Expand gravity collection system
 - Construct three new WW pumping station to service growth areas
- Rationale is to:
 - Build off of existing & planned infrastructure
 - Address topographical and environmental constraints
 - Develop an overall servicing strategy that facilitates phasing of growth/development
 - Coordinate with planned transportation projects



Boyne Survey Area

Significant Wastewater Capital Projects - Milton

- **Boyne Trunk Sewer**

- To accommodate planned flows from Milton and to transfer to the Mid Halton WWTP
- Design currently in progress – anticipated completion in October 2011
- Construction to commence early 2012 – anticipated completion in 2013

- **Fulton Road PS and Forcemain**

- To provide bypassing of Milton WWTP during peak conditions
- Design commencement in Fall 2011

Significant Wastewater Capital Projects - Milton

- **Milton WWTP Digester Upgrade**
 - To improve plant efficiency by restoring onsite capacity at Milton WWTP

- **Milton Derry Green – BPII PS**
 - To service Derry Green Business Area
 - Completing Design
 - Awaiting Approval of construction money

Questions?

Agenda : Britannia Wastewater Servicing Strategy Meeting

Date of Meeting	Thursday March 31, 2011	Start Time	9:00 am	AECOM Project	60114062
Project Name	Sustainable Halton Master Plan				
Location	Halton Region Office, North Service Rd, Oakville (OakRoom)				
Regarding	Britannia Wastewater Servicing				

Attendees:	Email
Bill Mann	Bill.mann@milton.ca
Carlo Stefanutti	carlo@fieldgatedevelopments.com
Colin Chung	colinc@gsai.ca
Dale Downey	ddowney@sernas.com
Dave Leighton	dleighton@urbantech.com
David Schaeffer	dschaeffer@dsel.ca
David Scott	dscott@tmig.ca
Diarmuid Horgan	dhorgan@candevcon.com
Douglas S. McGill	mcgill_dev_services@rogers.com
Frank Varga	gtarealty@rogers.com
Mark Paukovic	mp@nationalhomes.com
Martin Bateson	Martin.bateson@milton.ca
Mike Baldesarra	mbaldesarra@dsel.ca
Paul Brown	pbrown@mte85.com
Paul Cripps	Paul.cripps@milton.ca
Philip Rowe	prowe@uemconsulting.com
Rick McConnell	rmcconnell@mmland.ca
York Grvehl	ygrvehl@yorktrafalgar.com
Mickey Liu	Mickey.liu@halton.ca
John Duong	John.duong@halton.ca
David Simpson	David.simpson@halton.ca
Chris Hamel	Chris.hamel@aecom.com
Mark Zamojc	Mark.zamojc@aecom.com

Agenda:

1. Introductions
2. Presentation of Servicing Strategies
 - a. AECOM – Chris Hamel (20 min)
 - b. DSEL – David Schaeffer or Mike Baldesarra (20 min)
 - c. TMIG – David Scott (20 min)
3. Discussion
 - a. SPS Location and overall South Milton Servicing Strategy
 - b. South Milton Growth Area & Britannia SPS Catchment Area
 - i. 2021 Boundary
 - ii. 2031 Boundary
 - iii. Mature State
 - c. Phasing Impacts
4. Next Steps
 - a. Action Items Review
 - b. Parking Lot Items Review
5. Other Business

Minutes of Meeting

Date of Meeting	March 31, 2011	Start Time	9:00	Project Number	60114062
Project Name	Sustainable Halton Master Plan				
Location	Halton Region, North Service Rd (Oak Room)				
Regarding	Britannia Wastewater Servicing				
Attendees	John Duong, Mickey Liu, David Simpson – Halton Region Chris Hamel, Mark Zamojc - AECOM Diarmuid Horgan – Candevcon Limited Rick McConnell – Matson, McConenell Ltd (Sundial) Gord Patterson – Sernas Associates Dale Downey – Sernas Associates Paul Smeltzer - Amec Bill Mann – Town of Milton Paul Cripps – Town of Milton Philip Rowe - UEM Douglas McGill – McGill Development Services Mark Pavkovic – National Homes Colin Chung – Glen Schnarr Associates Inc York Gruehl – York Trafalgar Corp Frank Varga – Frank Varga Dave Leighton - Urbantech Mike Vernooy – Mattamy Mike Baldesarra – David Schaeffer Engineering Ltd (DSEL) Paul Brown – MTE Consulting Anita Leduc – MTE Consulting Michael Telawski – Trinison Management Carlo Stefanutti – Fieldgate Developments David Scott - TMIG				
Distribution	All in attendance				
Minutes Prepared By	Mark Zamojc				

PLEASE NOTE: If this report does not agree with your records of the meeting, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

BRITANNIA	Action
<ul style="list-style-type: none"> AECOM provided a presentation on Britannia Wastewater Servicing. The Presentation covered the history of the servicing strategies on Britannia, from the 2008 Master Plan (WWPS located at Britannia/Thompson Rd), 2009 Allocation Program (WWPS moved to Britannia/James Snow Parkway) and the current Sustainable Halton strategy (WWPS possibly moved back to Thompson 	

<p>Rd).</p> <ul style="list-style-type: none"> • The preliminary profiles for the Britannia Trunk Sewer and James Snow Parkway/BP11 Trunk Sewer were presented, which gave an estimate for the possible sewer/WWPS inverts for both WWPS locations. • BP11 overflow options were discussed • Preliminary cost comparison for both WWPS locations was presented, taking into consideration trunk sewer length, forcemain length, sub-trunk sewer length, tunnelling costs, emergency overflows, etc • Pros/Cons evaluation of both WWPS locations was presented. 	
<ul style="list-style-type: none"> • An overall consensus was reached that there are no major issues with either WWPS location. The main concern regarding the Britannia Servicing is timing for development. 	
<ul style="list-style-type: none"> • Follow-up discussion on Britannia WWPS size, oversizing, and ultimate pumping strategy - two WWPS (one at Lower Base Line and one at Britannia), vs one WWPS (at Britannia only), two Greenbelt crossings vs one Greenbelt crossing 	
<ul style="list-style-type: none"> • The critical items for all future developments will be the funding and installation of the Boyne Trunk Sewer, without which, no additional development can take place (other than what has already been committed). Currently, the design is being completed and construction will be complete in late 2013 if funding is available • The suggestion was made that the allocation program be discussed by developers representatives and Halton Region as soon as possible (before DC update is complete) in order to avoid Boyne Trunk Sewer delays 	
<p><i>BUSINESS PARK II</i></p>	
<ul style="list-style-type: none"> • Discussion held on BP11. DSEL feels that the BP11 WWPS is sized larger than necessary and the servicing strategy for BP11 can be reconfigured to maintain the same timing, with cost savings. Suggested that the station can be shifted to the east to collect from lower lying areas, the station be reduced in size and that 5th Line/BP11 trunk sewer can reach Britannia Rd from Main St by gravity at a reasonable depth and slope. • TMIG is concerned that the development of BP11 lands could be delayed by that scenario 	<p>DSEL to present strategy to AECOM for review at a later date</p>
<p><i>SOUTH GEORGETOWN</i></p>	
<ul style="list-style-type: none"> • It was suggested that the exiting land supply in Georgetown South will be absorbed in approximately 3 years and that Southwest Georgetown will want to develop sooner than 2021. • The suggestion was made that the BP11 infrastructure should be upsized to handle some Southwest Georgetown flows until the Trunk Sewer is built 	
<p><i>OTHER</i></p>	
<ul style="list-style-type: none"> • Attendees feel that is important that the final servicing strategy ensures that there are no portions of development lands that are left without servicing, resulting in the requirement for local WWPSs 	

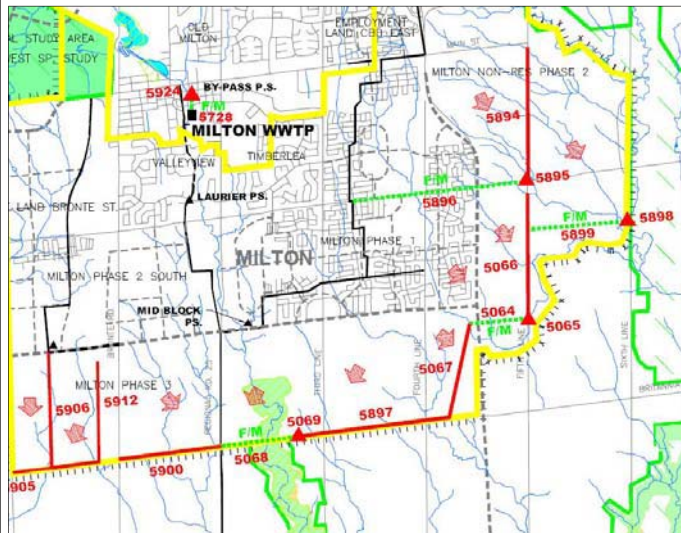


Serving our Communities and our Environment
 Sustainable Halton Water & Wastewater Master Plan



Britannia Wastewater Servicing Workshop – March 31, 2011

2008 Master Plan Strategy



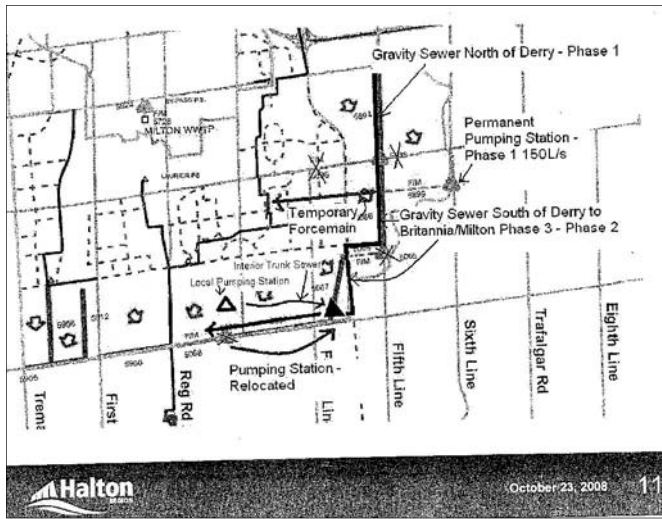
- The 2008 Master Plan Update refined the wastewater servicing strategy for Milton originally introduced in the 2002 Master Plan
- The strategy consisted of a series of gravity sewers Sewage Pumping Stations and Forcemains to service the 2021 growth boundary
- SPS **5895** was recommended in order to facilitate phasing of development in Milton Non-Res Phase II
- SPSs **5065** was recommended in order to raise the sewer elevation near James Snow Pkwy and Louis St Laurent Ave. This reduced the depth of sewers **5067** and **5897** for the 3.5 km to SPS **5069** at Britannia Rd/3rd Line.
- Consideration was not given at that time to service areas south of Britannia Rd, along Trafalgar Rd or Georgetown



Sustainable Halton Water and Wastewater Servicing Master Plan



2008 Allocation Program Strategy



- The 2009 Allocation program introduced a new strategy that reduced the number of pumping stations in Milton but increased sewer depth
- SPS 5898 (BPII SPS) remained in place, to be shifted to 5th Line later on
- SPS 5895 & 5065 were eliminated
- SPS 5069 was shifted east along Britannia, in between future James Snow Pkwy and 4th Line.
- Shifting SPS 5069 to the east would shorten the length of deep trunk sewer, but would extend the forcemain length and require some relatively deep servicing for the area west of Thompson Rd and south of Louis St Laurent.



Sustainable Halton Water and Wastewater Servicing Master Plan



2008 Allocation Program Strategy

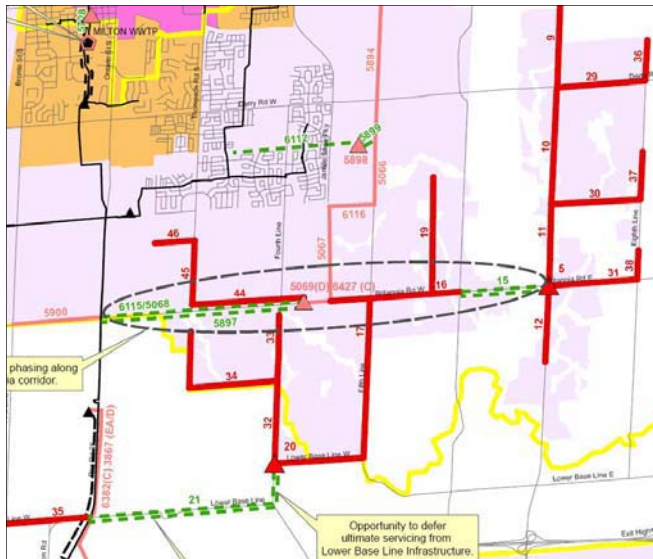
<p>Infrastructure Staging Plan and Allocation Program</p> <p>Final Allocation to the Ratepayers Development Council Committee October 23, 2008</p>	<p>Agenda</p> <ul style="list-style-type: none"> • Summaries <ul style="list-style-type: none"> – Meetings since September 19, 2008 – Items for Consideration – Changes to the WWWW Project Lists • Revised Allocation Program • Revised Financing Requirements for Allocation Programs • Next Steps 	<p>Summaries - Meetings</p> <ul style="list-style-type: none"> • 14 Meetings were convened since September 19, 2008 <ul style="list-style-type: none"> – September 22, 2008: NOCOP – September 24, 2008: HDLC Technical Meeting – September 25, 2008: Team of MPW – September 29, 2008: Murray/Milton Phase 3 – September 29, 2008: Thompson Creek Cut – October 1, 2008: HDLC Technical Meeting – October 2, 2008: 8th Landmark – October 7, 2008: HDLC Finance Meeting – October 7, 2008: Team of Derris – October 8, 2008: Murray/North Oakville – October 8, 2008: 8th Landmark Re-construction – October 14, 2008: HDLC Technical Meeting/North Oakville – October 15, 2008: NOCOP – October 15, 2008: Team of Milton
<p>Summaries – Items for Consideration</p> <ol style="list-style-type: none"> 1. Servicing for North Oakville 2. Request to Defeat/Reconsider Boyne to Third Landmark Gravity Sewer 3. Refinement of Rebecca Street Watermain Crossing 4. Deferral of Zone 4 and Zone 5 Water Reservoirs 5. Review Milton Business Park II Servicing 6. Miscellaneous Comments <ul style="list-style-type: none"> 6a. Ensure wastewater infrastructure related to pumping west of Sunset Mills Creek are in service for end 2010 6b. Confirm Modeling Scenario Input Parameters 6c. Allow agreements without a Secondary Plan 6d. Provide Draft Plan Approval without allocation and implement a "holding" provision until infrastructure is in place 6e. More Allocation, Sooner 	<p>Summaries – Items for Consideration</p> <ol style="list-style-type: none"> 5. Review of Milton BPII Servicing <ul style="list-style-type: none"> • Five options considered for servicing BPII through Milton Phase 3 East <ul style="list-style-type: none"> • MPW (variation: Derry/Fifth SPS as temporary) • MPW and relocating Derry/Fifth SPS Eastward (variation: permanent and temporary) • Gravity Solution • Gravity Solution and Temporary Servicing for 90cc • Gravity Solution and construct permanent SPS south of Derry on Sixth Line, temporary forcemain to existing trunk sewer 	



Sustainable Halton Water and Wastewater Servicing Master Plan



2011 Master Plan



- The preliminary preferred strategy for the Britannia corridor in the 2011 Master Plan was to carry forward the strategy as recommended in the 2009 Allocation Program
- Opportunity to shift the Britannia SPS back to its original location at Britannia and 3rd Line has been identified
- Additional analysis for the potential re-location has been completed by AECOM and others.



Sustainable Halton Water and Wastewater Servicing Master Plan



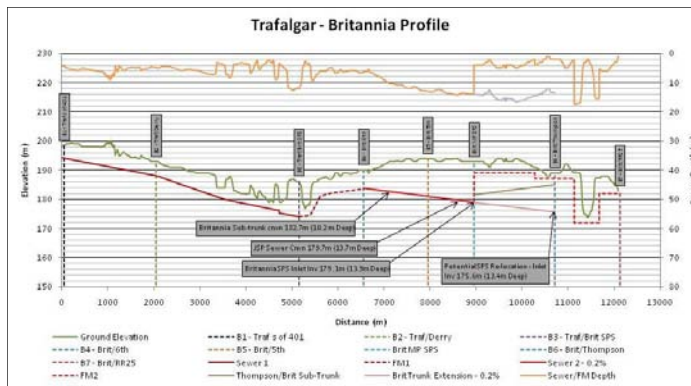
Plan – Preliminary Preferred Strategy



Sustainable Halton Water and Wastewater Servicing Master Plan



Profile - Britannia



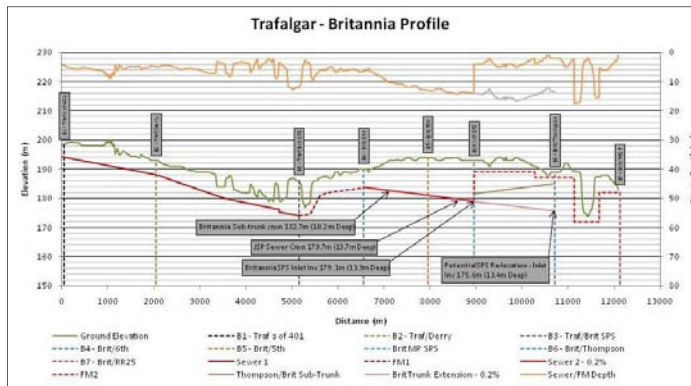
- The Britannia Trunk Sewer begins at Britannia Rd and 6th Ln where the proposed Britannia/Trafalgar SPS discharges
- The 1200 mm sewer @ 0.2% runs from east to west picking up flows from the Britannia Corridor
- The sewer depth is dictated by 2 locations:
 - The Britannia Sub-trunk, which services lands north of Britannia, between 5th Ln and 6th Ln
 - The James Snow Pkwy/BPII trunk, which will receive pumped flow from BPII SPS at 5th Ln, south of Derry Rd
- The Britannia Trunk sewer discharges to the Britannia SPS between James Snow Pkwy and 4th Ln at an invert elevation of approximately 179m (14m deep)
- Opportunity to shift the station west to 3rd line would extend the Britannia trunk for 1.7km at a depth range of 12-17m and discharge to the updated SPS location at an invert elevation of approx. 175.6m (13.4m deep)



Sustainable Halton Water and Wastewater Servicing Master Plan



Profile - Britannia



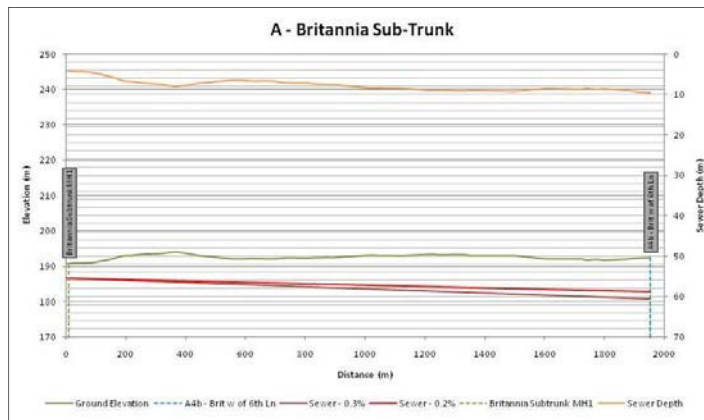
- The provision for emergency overflow pipe must be considered for all proposed SPSs:
 - The James Snow Pkwy SPS location will require a ~2.4m overflow at shallow depth
 - The 3rd Ln/Thompson Rd SPS location would require a ~600 m overflow at similar depth.
- *Space to add any additional servicing comments*



Sustainable Halton Water and Wastewater Servicing Master Plan



Profile – Britannia Sub-Trunk



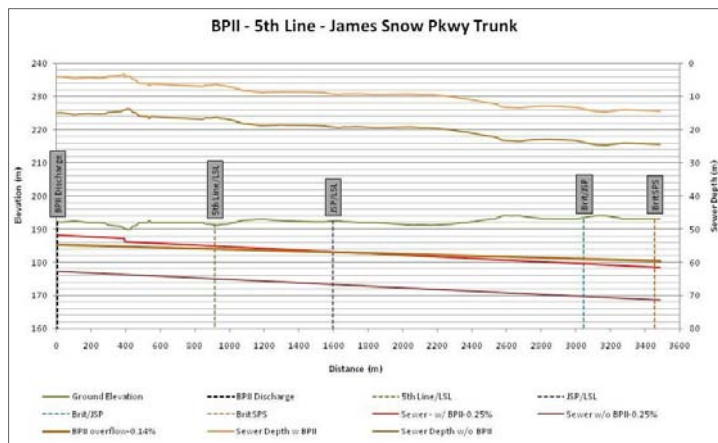
- The Britannia Sub-Trunk services the area north of Britannia between 5th Ln and 6th Ln.
- A 525 mm sewer at slope of 0.2% with upstream invert of 186.7m and ground elevation of 190.7m
- This sewer forces the Britannia trunk sewer deeper a distance of ~525 m west of 6th Ln



Sustainable Halton Water and Wastewater Servicing Master Plan



Profile – James Snow Pkwy/BPII Trunk



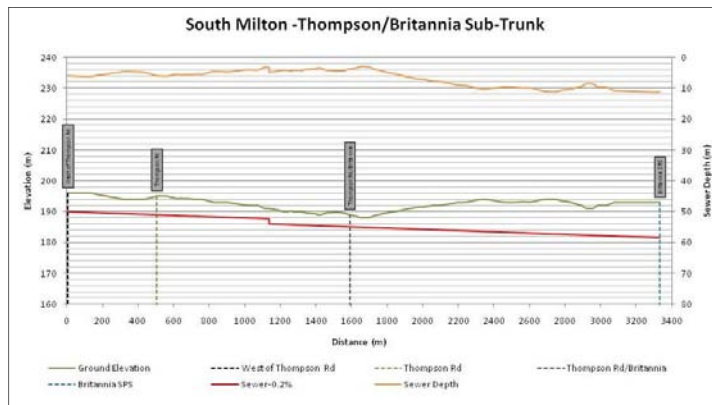
- The BPII SPS will ultimately pump flows to a minimum depth of 188m on 5th line adjacent to the station.
- The James Snow Pkwy/BPII trunk gravity sewer will flow south and intercept Britannia Rd at an elevation of 179.7m (13.2m deep)
- Emergency Overflow from BPII SPS will be a 450mm diameter gravity sewer with upstream invert of 185.35m and slope of 0.14%
- Opportunity to connect BPII overflow to deep Britannia Trunk



Sustainable Halton Water and Wastewater Servicing Master Plan



Profile – Thompson/Britannia Sub-Trunk



- The South Milton -Thompson/ Britannia Sub-Trunk will flow south and east to the proposed Britannia SPS
- A deep section on Britannia Rd could possibly conflict with twin forcemain and SPS emergency overflow construction
- The 3rd Line SPS location could eliminate the need for the deep section of sewer flowing east along Britannia Rd



Sustainable Halton Water and Wastewater Servicing Master Plan



Cost Comparison - 3rd Line vs James Snow Pkwy

Option A - James Snow/Britannia SPS		Size/Capacity	Length (m)	Cost Estimate
SPS	New 66 ML/d wastewater pumping station on Britannia Rd between James Snow Parkway and 4th Line	750-800 L/s		\$11.0 M
FM	Twin 400 mm WW Forcemain on Britannia Rd from new Britannia SPS (between James Snow Parkway and 4th Line) to Regional Road 25	Twin 400 mm	3,149	\$12.4 M
WWM	750 mm WWM on Britannia Rd from Thompson Rd to Britannia Rd SPS	750 mm	1,735	\$16.7 M
WWM	Emergency Overflow Pipe from SPS	750 mm	2,100	\$3.9 M
TOTAL				\$44.0 M

Option B - Thompson/Britannia SPS		Size/Capacity	Length (m)	Cost Estimate
SPS	New 66 ML/d wastewater pumping station on 3rd Line/Thompson	750-800 L/s		\$11.0 M
FM	Twin 400 mm WW Forcemain on Britannia Rd from SPS 3rd Line/Thompson to Regional Road 25	Twin 400 mm	1,000	\$6.4 M
WWM	1200 mm WWM on Britannia Rd from between James Snow Parkway and 4th Line to SPS 3rd Line/Thompson	1200 mm	2,149	\$29.7 M
WWM	Emergency Overflow Pipe from SPS	750 mm	300	\$0.4 M
TOTAL				\$47.5 M



Sustainable Halton Water and Wastewater Servicing Master Plan

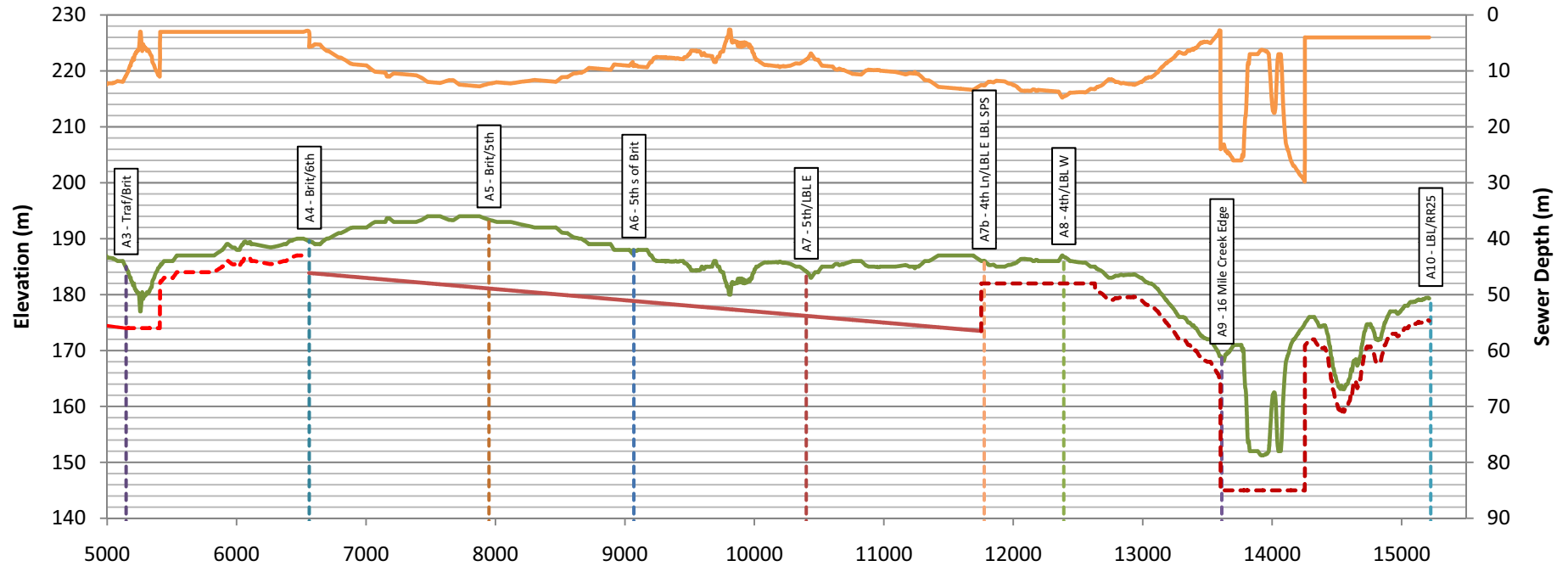


Britannia SPS Location Comparison

A - James Snow Pkwy		B - 3 rd Line/Thompson Rd	
+	-	+	-
• Shallower forcemain construction on Britannia carries less construction cost risk vs deep trunk sewer	• Extensive emergency overflow length compared to B	• Proximity to 16 Mile Creek emergency overflow location	• Higher risk of increased cost for deep 1200 mm sewer
• Slightly lower capital cost	• Infrastructure required within road alignment: • 2 Forcemains • 750mm gravity sewer • 750mm overflow • 450mm BPll overflow	• Infrastructure required within road alignment: • 1200mm gravity sewer • 450 mm BPll overflow	
		• Deep sewer extension to Thompson Rd increases drainage area south of Britannia	



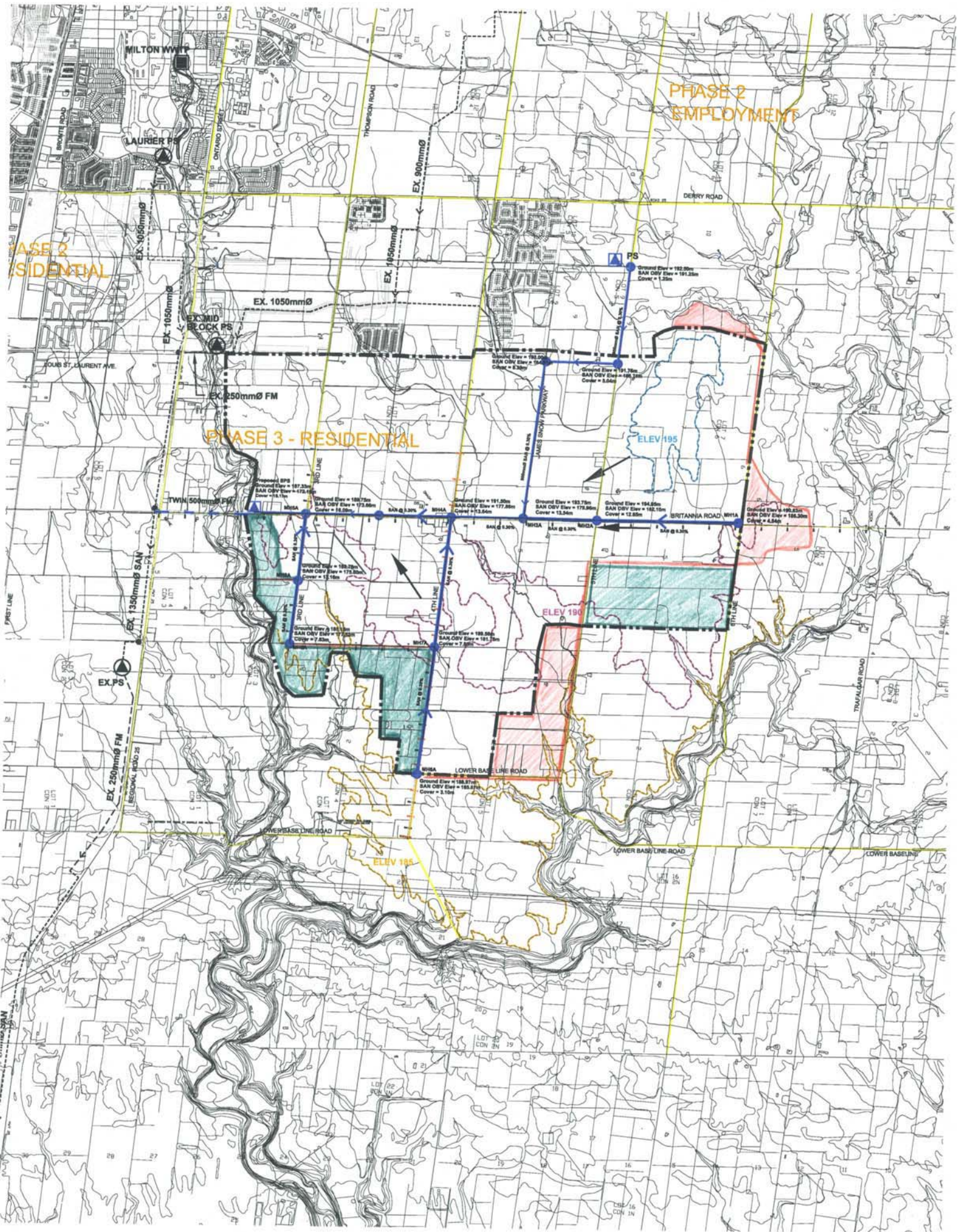
A - Lower Base Line - Trafalgar to RR25



- | | | | | |
|-------------------------|--------------------|-----------------|----------------------------|----------------|
| Ground Elevation | A1 - Traf S of 401 | A2 - Traf/Derry | A3 - Traf/Brit | A4 - Brit/6th |
| A5 - Brit/5th | A6 - 5th s of Brit | A7 - 5th/LBL E | A7b - 4th Ln/LBL E LBL SPS | A8 - 4th/LBL W |
| A9 - 16 Mile Creek Edge | A10 - LBL/RR25 | Sewer 1 | FM1 | Sewer 2 - 0.2% |
| FM2 | Sewer/FM Depth | | | |

LEGEND

- PROPOSED SANITARY SEWERS
- ▲ PROPOSED PUMPING STATION
- SERVICE LIMITS
- PROPOSED BRITANNIA 16 MILE CREEK SPS
- - - ELEV 195
- - - EXISTING ELEVATIONS



The MUNICIPAL INFRASTRUCTURE Group Ltd.
 8800 Dufferin Street, Suite 200
 Vaughan, ON L4K 0C5
 Tel. 905-738-5700

**TOWN OF MILTON (EAST)
 BRITANNIA ROAD SPS - SERVICE AREA**

DATE:	MARCH 2011	PROJECT No.	09102
SCALE:	1:20,000	DRAWING No.	FIGURE 1





Public Works
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-8822

PR – S2500A/2501A: Sustainable Halton Water and Wastewater Master Plan

FROM: Ken Woodruff, BurlingtonGreen
Tel. No.: 905-639-2262
Email: kwoodruff@cogeco.ca

CONTACTED: Jack Dennison, Halton Region

OTHERS INVITED: Christine Upton, P.O.W.E.R.
Tel. No. 905-873-1820
Email: c.upton@sympatico.ca

DATE: October 22, 2010

RE: Sustainable Halton Water and Wastewater Master Plan

Comments / Inquiry:

Ken Woodruff contacted Councillor Jack Dennison (Halton Region) by email on August 24, 2010 and had various comments in regards to the Sustainable Halton Water and Wastewater Master Plan information presented at the May 27, 2010 PIC held in Burlington.

Mr. Woodruff provided the following comments in his email. He indicated that he was frustrated with the Master Plan information presented at the PIC because:

1. It consisted of about 40 boards, including eight with "options" – all of which include the "big pipe" to Milton.
2. When I questioned why no other options, I was told it was because Halton Hills needed it to accommodate the incremental 20,000 people to be added outside the existing boundaries and that this was "in ROPA". (It is on map 5 at <http://www.halton.ca/common/pages/UserFile.aspx?fileId=17882>- it's the bottom left hand area outlined in blue.)
3. There were no easily understood rationales.
4. There was no spending/cost tables.
5. There were no handouts and I had to request a written copy which was delivered in July.



He indicated that the hard copy was also disappointing with respect to the following:

1. Although the "Servicing Concepts Evaluation Criteria" includes "Financial Impact", there are not any financial estimates for any of the Water Servicing or Wastewater Servicing Concepts!
2. The report does not contain recommendations.
3. The PIC's presentation of eight "options" chosen from the seven Water Supply Options for Acton, seven for Georgetown, three for Milton and 10 for South Lake areas and four Waster Water Options for Acton, four for Georgetown, two for Milton and 25 for South Lake. The written report should have had the PIC options outlined and rationalized.
4. The follow-up actions from the May PICs include detailed alternative servicing analysis, triple bottom line evaluation and hydraulic modeling. In other words, they will be analyzing only the "big pipe" options at the next opportunity for public input at the Fall 2010 PIC 2 and others will not be analyzed.

Follow up Action / Date:

David Simpson scheduled a meeting with Ken Woodruff (BurlingtonGreen) and Christine Upton (Protect Our Water and Environmental Resources - P.O.W.E.R. Group) on October 22, 2010.

Halton representatives from both the Water Planning Group (David Simpson, Jacek Pawlus) and Wastewater Planning Group (John Duong, Magda Bielawski, and Mickey Liu) met with Ken Woodruff and Christine Upton to discuss their issues in regards to the Halton Region Master Servicing Plan.

The following was discussed with the Water Planning Group (David Simpson and Jacek Pawlus):

- David Simpson explained the general process of the Master Servicing Plan including the reasons for growth (Places to Grow Act, 2005). The main trigger for this Master Servicing Plan is to provide an updated water and wastewater capital implementation program which would provide input into the 2011 Development Charge By-Law process.
- Most of the discussion was focused on Georgetown as the expected growth for 2031 is quite significant (+20,000 persons).
- Ken Woodruff was concerned about the phrase in AECOM's report "watermain to be oversized for future growth" for Georgetown.
 - David Simpson explained that oversizing is considered for trunk infrastructure requirements beyond the 2031 horizon (i.e. urban boundary build-out scenario). Strategic infrastructure oversizing reduces the need to potentially upgrade works in the near future and thus would limit environmental and social disruptions.

- David Simpson explained that there is a need to supply an additional 10,000 m³/day (approximately) to meet the 2031 projected growth demand for Georgetown. David Simpson stated that the following supply options were analyzed for PIC #1:
 1. Development of new well fields (Inglewood, Huttonville and Middle Sixteen Mile Creek East and West) in Georgetown.
 - However, in order to develop new well fields, the fields need to show that they are sustainable (ie. do not affect existing ecology and private wells)
 2. Expansion of Lindsay Court and Cedarvale Well Fields.
 3. Temporary Peel lake base connection
 4. Halton lake base connection
- David Simpson explained that the existing well fields in Georgetown may provide an additional supply of 3,000 to 4,000 m³/day (approximately). However, this needs to be confirmed through studies and tests.
 - The supply shortfall of 6,000 to 7,000 m³/day (approximately) needs to be addressed either with a Peel lake base connection or with a Halton lake base connection.
- Ken Woodruff required an explanation why all concepts had a proposed lake base system to Georgetown.
 - David Simpson confirmed that only 1 of the 6 concepts included a lake base system for Georgetown.
- David Simpson confirmed that water efficiency (5% reduction) has been taking into account in the water demand projections.
 - However, the Water Efficiency Plan is currently under development and will need to be presented and approved by Council in order to obtain necessary funding. Other water efficiency programs, such as the Low Flow Toilet Rebate program (started in 2007) and Leak Detection Program, are ongoing.
- Ken Woodruff was concerned about the lack of financial information presented at PIC #1 for each concept.
 - David Simpson provided a table showing high level conceptual draft costs of each concept (colour coded to represent low-medium-high costing groups) which were based on the Sustainable Halton Fiscal Impact Analysis for the preferred growth concept.
 - Ken Woodruff asked if the actual dollar value cost estimate will be provided at the next PIC.
 - David Simpson will consult with Halton and AECOM regarding the level of costing detail that will be provided at the next PIC.
 - David Simpson also explained that a lake base system is significantly more cost effective than a maintaining or expanding groundwater system.
- David Simpson explained that the next PIC (February 2010) will streamline the concepts presented at PIC #1 to 2 or 3 preferred concepts and will suggest a preliminary preferred water servicing alternative.



- David Simpson to confirm with Christine Upton if the Master Servicing Plan team can meet with the P.O.W.E.R. Group.
- David Simpson will add Christine Upton and Ken Woodruff to the Master Servicing Plan mailing list.

WASTEWATER PLANNING

The following was discussed with the Wastewater Planning Group (John Duong, Magda Bielawski and Mickey Liu) at the meeting:

- Christine Upton explained the composition of the Halton Hills sustainable community. The Town of Halton Hills currently forms a Sustainable Advisory Committee (about 35 committee members, including the town councillors). One of the sub-committees is the task force for water and wastewater servicing.
- Mickey Liu briefly walked through the wastewater servicing concepts for each local municipality with Ken Woodruff and Christine Upton.
- Mickey Liu explained that the second PIC (after the detailed evaluation via a typical municipal Class Environmental Assessment or master plan process) usually presents the recommendation on the preliminary preferred servicing alternative and costs.
- John Duong explained the streamline of the Provincial Policy Statement (PPS), Place to Grow Act, ROPA 38 (Sustainable Halton), ROPA 39 (BPE), and associated road, water, and wastewater servicing master plan development.
- Ken Woodruff asked if the wastewater treatment plant effluent could discharge back to the lake instead of the local creeks.
 - Magda Bielawski explained the water balance concept and that the wastewater should be discharged back to the same watershed from which the water came from. It is understood from review agencies that they are not in favour of blending two different water systems i.e. groundwater and lake water.
- Ken Woodruff and Christine Upton expressed their interest to see the integrated cost estimates for pairing water and wastewater servicing alternatives if applicable.
 - John Duong responded that the master plan project team will carefully consider this suggestion.

If you have any further questions or comments, please contact David Simpson (Water Planning) or John Duong (Wastewater Planning).

Sustainable Halton Water & Wastewater Servicing Master Plan

**Presentation to Halton Developers Liaison Committee
March 26, 2010**



Overview

- Link to Previous Master Plans
- Background and Growth Areas
- Master Plan Objectives
- Preliminary Servicing Concepts
- Master Plan Schedule and Consultation

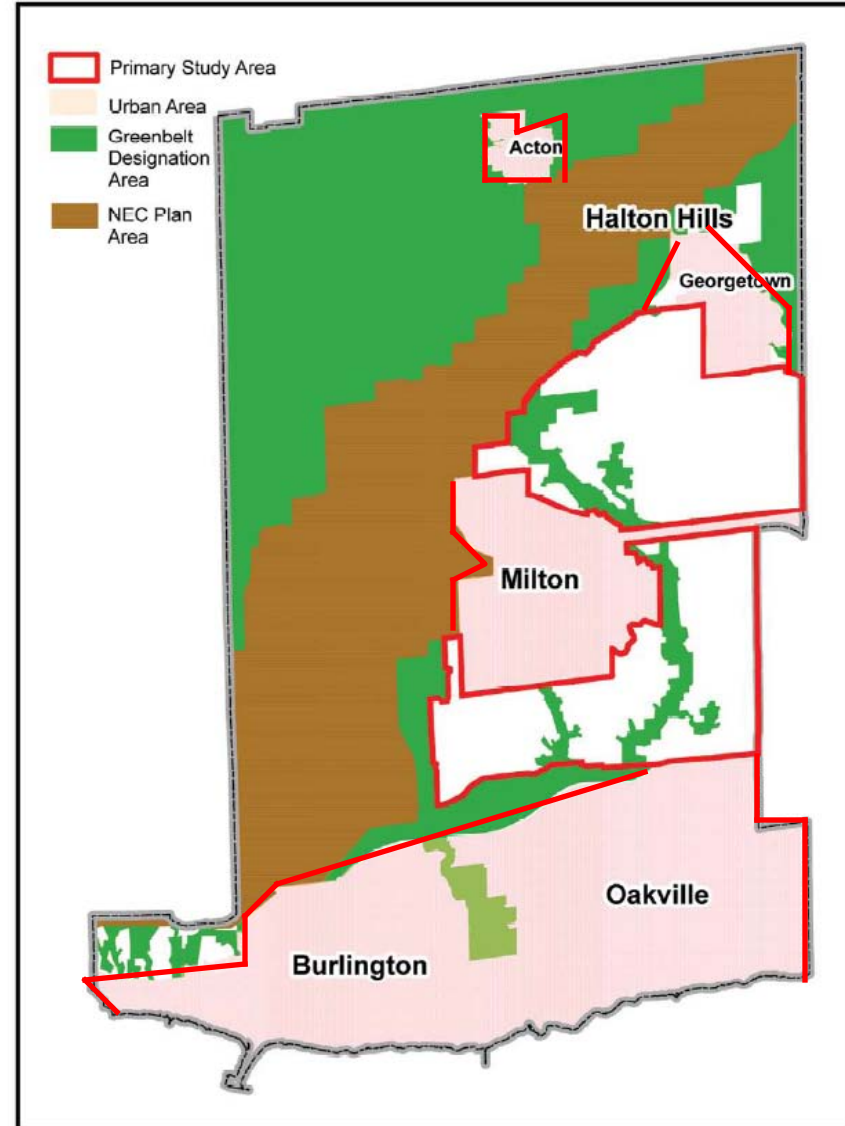
Relationship to previous Halton Master Plans

- **2002 Water and Wastewater Master Plan**
 - Preferred water and wastewater servicing strategies for the South Halton system. Based on 2016 BPEs and urban area buildout scenario.
- **2004 Water and Wastewater Technical Report**
 - Development Charges Update – updated TSZ, BPE's, cost estimates, design criteria, and projected land use requirements for development to 2021.
- **2008 Water and Wastewater South Halton Master Plan**
 - Updated BPE's used to review servicing strategies and update cost estimates to support new Development Charges By-Law. Land use projections to 2021 **with limited intensification detail.**
- **Sustainable Halton Water and Wastewater Master Plan**
 - Region wide servicing and costing strategy to 2031 to meet the Places to Grow growth requirements.
 - Utilize findings and recommendations from other EA Studies in South and North Halton
 - SHWWMP will support a new 2011 DC By-law

Master Plan Background

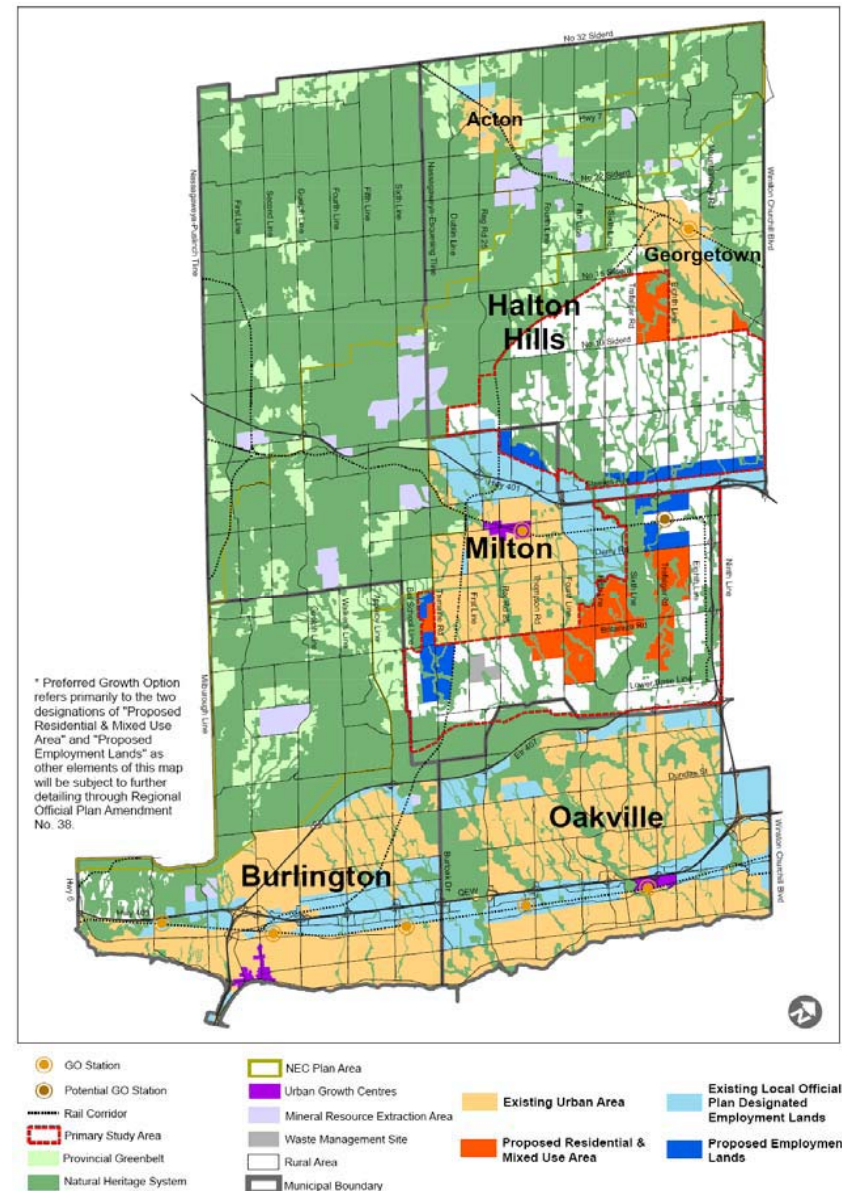
- Respond to Provincial Growth Management Legislation, Places to Grow Act (2005)
- Need to plan for 780,000 people and 390,000 jobs by 2031 (Growth of 300,000 people and 170,000 jobs)
- Accommodate current and future infrastructure needs

Halton's Primary Study Area



Preferred Growth Option

- 2021-2031
Service Area Growth
- 118,000 people:
(~ 71,000 greenfield
& 47,000 intensification)
- 53,000 employees

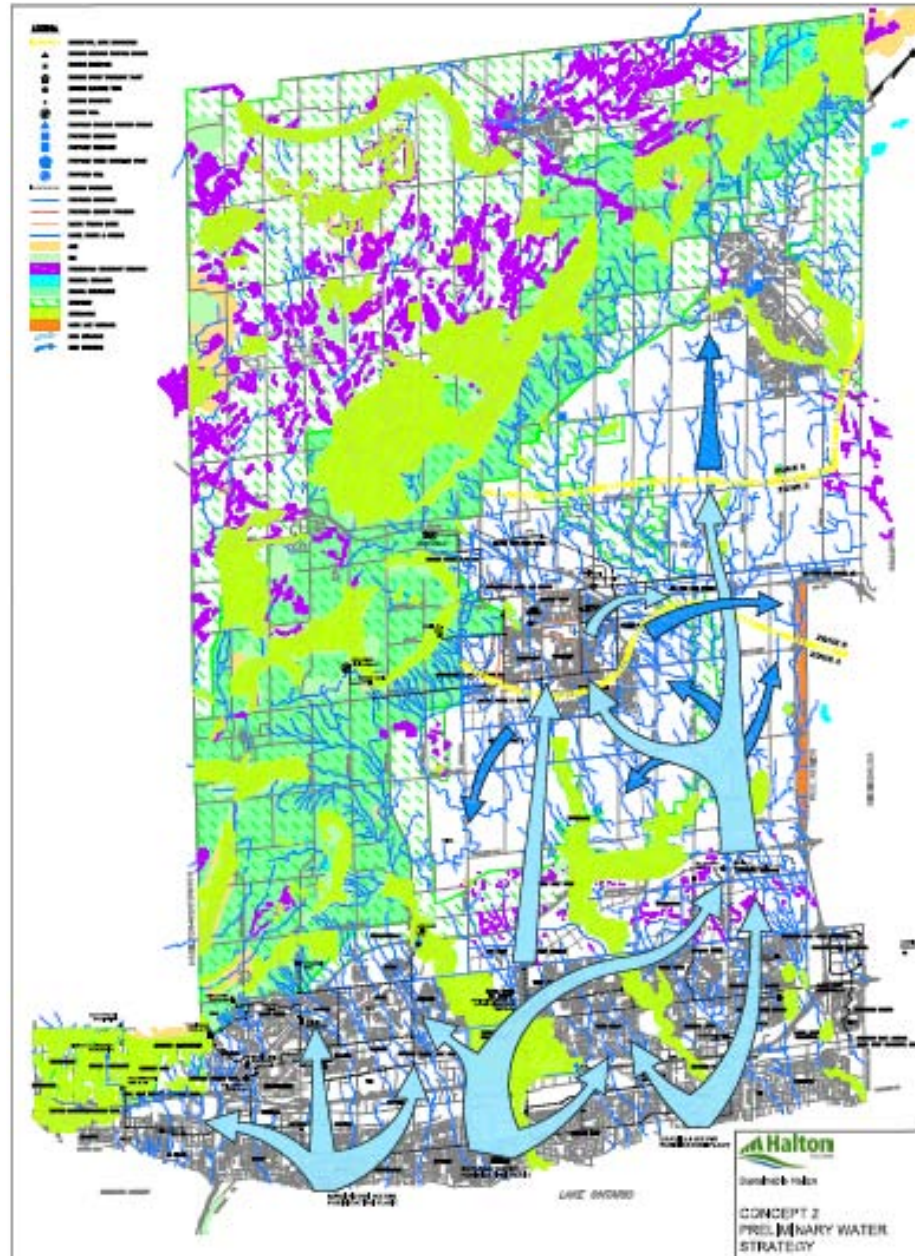


Master Plan Objectives

- Identify Region-wide water & wastewater servicing needs to the year 2031 with consideration for a longer term servicing strategy (Full Build-Out).
- Evaluate servicing alternatives for the 2031 preferred land use option and develop a preferred Region-wide water and wastewater master servicing strategy.
- Follow Municipal Class Environmental Assessment planning principles including public consultation and systematic evaluation of alternatives.
- Develop a capital implementation program for the preferred servicing strategy for input into the 2011 Development Charge Bylaw and Allocation process

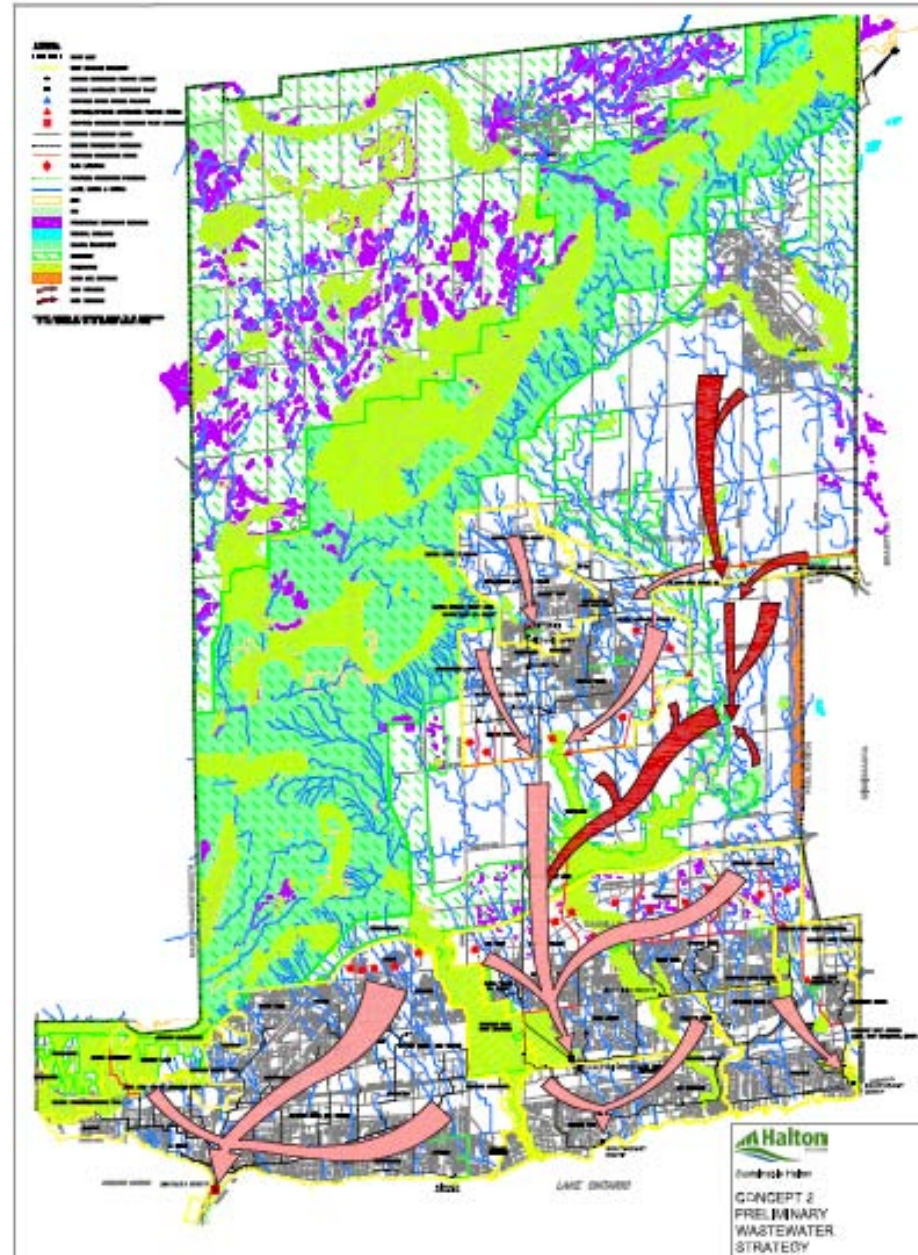
Preliminary Strategies

- WATER SERVICING CONCEPTS

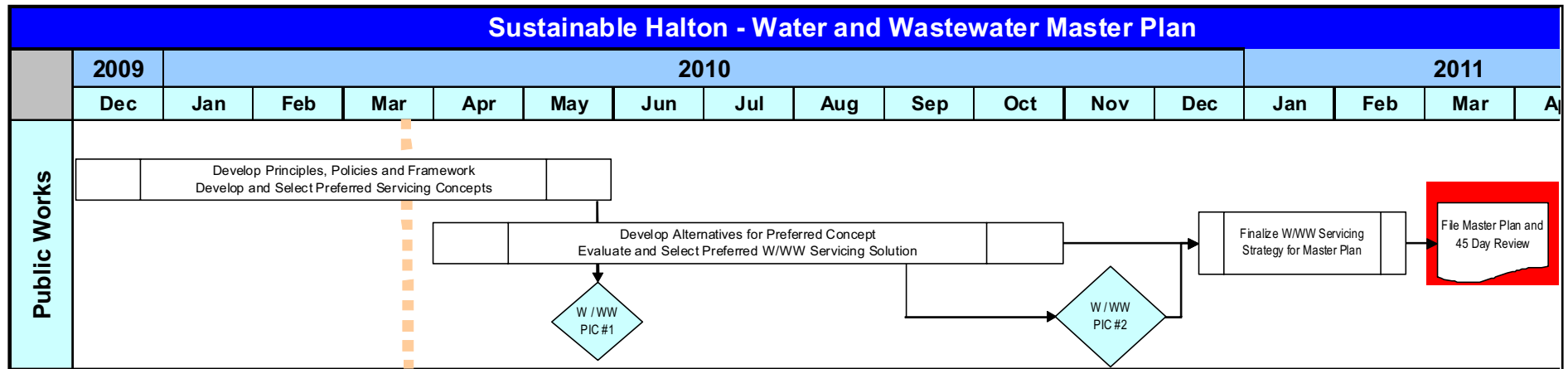


Preliminary Strategies

- WASTEWATER SERVICING CONCEPTS



Project Schedule



Consultation Opportunities

- PIC #1 – May, 2010
- PIC #2 – November, 2010

Notes:

- HDLC on mailing list and will receive Study notices and updates
- Regional Project Webpage: Study information updates, notices and public documentation will be regularly posted

Contacts

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Water Services, Public Works

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Website: www.halton.ca

John Duong

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Wastewater Services, Public Works

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Website: www.halton.ca



Serving our Communities and our Environment

Sustainable Halton Water & Wastewater Master Plan

Agenda

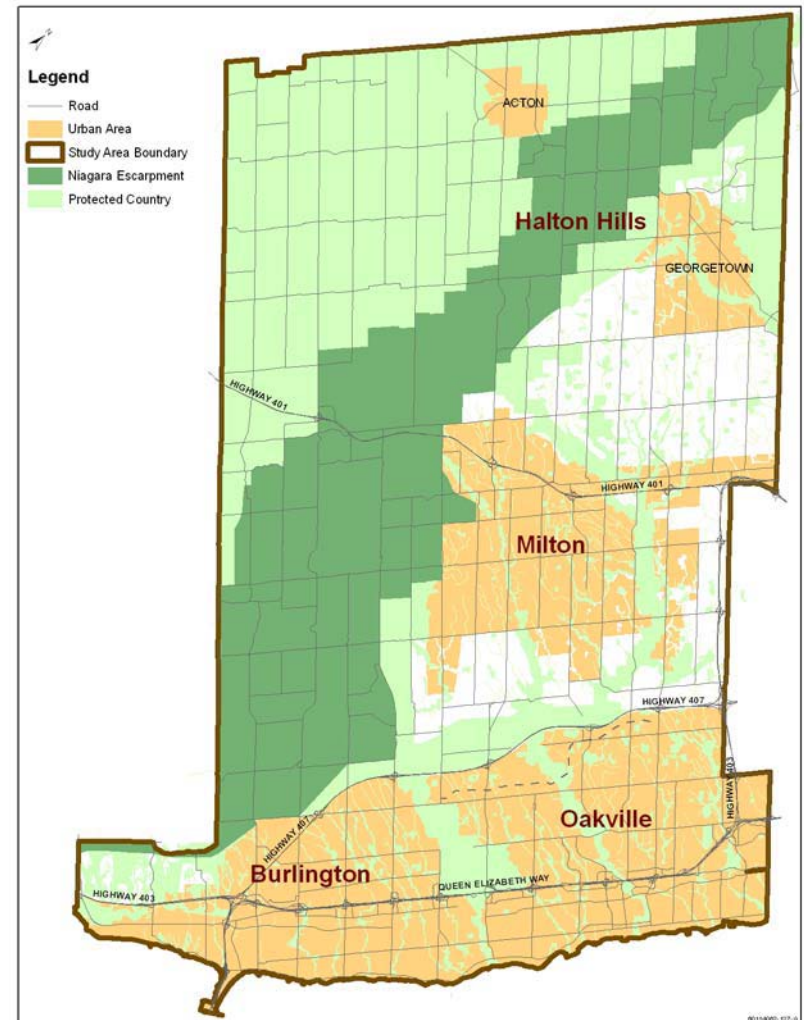
1. Master Plan Process
2. Growth Demands
3. Water Servicing Preliminary Strategy
4. Wastewater Servicing Preliminary Strategy
5. Intensification

Objectives

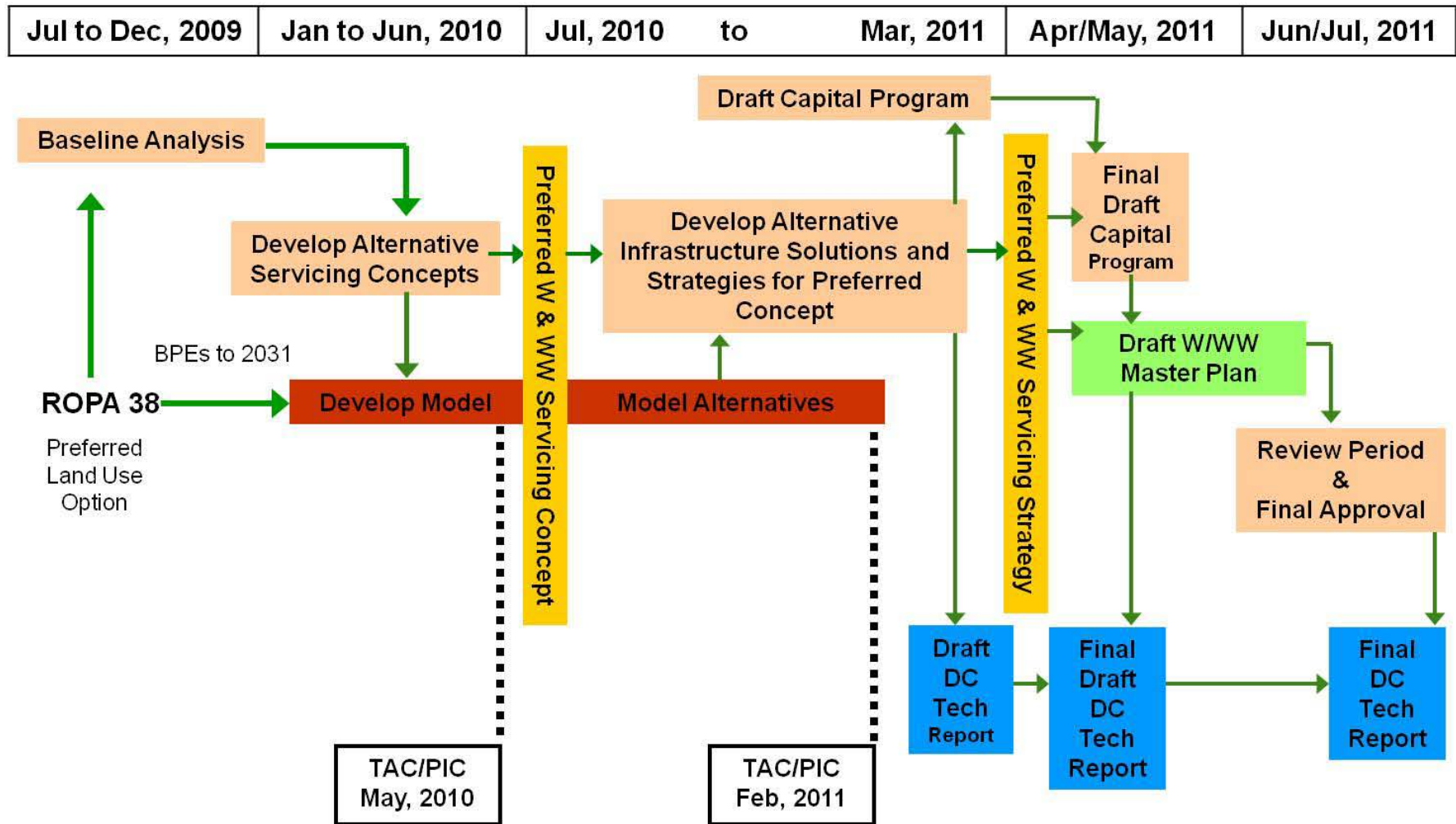
Master Plan Study

A Servicing Master Plan is a long range planning document that integrates infrastructure requirements for existing and future land use with environmental assessment planning principles. Its purpose is to:

- Develop a water and wastewater infrastructure strategy to serve the existing and future residents and businesses in Halton to the year 2031.
- Accommodate growth in accordance with the Council approved ROPA 38 Land Use Plan and Best Planning estimates including intensification.
 - Need to plan for approx. 732,000 people & 381,000 jobs by 2031 (Census estimates not adjusted for undercoverage).
 - A growth of approx. 257,000 people & 137,000 jobs
- Follow Municipal Class Environmental Assessment process.
- Complete a capital implementation program for the preferred servicing strategy.



Master Plan Deliverables and Timeline

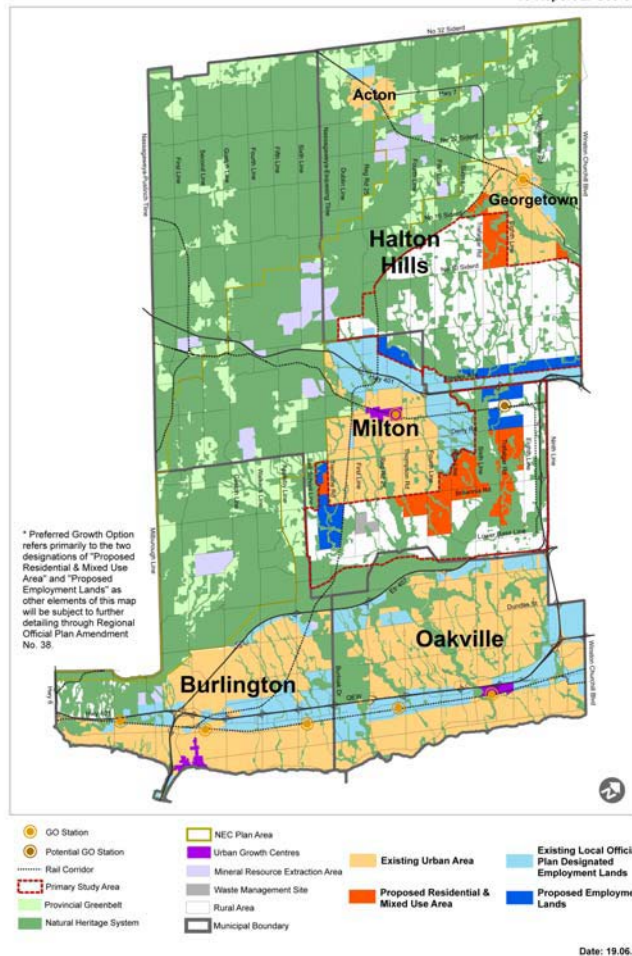


Sustainable Halton Preferred Land Use Plan

Planning Projections

Preferred Growth Option*

Attachment #1 (Amended)
To Report LPS69-09



Service Area	Served Population (Persons)		
	2011	2031	Growth
Acton	10,088	14,709	4,621
Halton Hills 401 Corridor	0	0	0
Halton Hills Sub-Total	Served Employment (Employees)		
Service Area	2011	2031	Growth
Oakville	172,482	246,363	73,881
Acton Burlington	170,386	182,080	11,694
Georgetown	11,914	14,563	2,649
Milton	81,808	227,240	145,432
Halton Hills 401 Corridor	4,938	19,581	14,643
Region Total	475,114	732,865	257,751

The population data and forecasts are consistent with the official Census figures as reported by Statistics Canada, not adjusted for undercoverage. It should be noted that the un-adjusted counts, sometimes referred to as "Census population" (versus "total population" referring to the adjusted counts as used in the Growth Plan), remain as the official population counts and are never updated to include the under-count.

Servicing Concepts Evaluation Criteria

Water Strategies Evaluation

- Evaluate Average Day, Maximum Day and Peak Hour flows and supply
- Consider system security and redundancy
- Maintain adequate levels of service (pressure/flow for domestic use and firefighting)
- Ensure operating considerations are addressed
- Continue to meet all MOE requirements
- Use the model to assess impact of new growth demands (based on projected BPEs) on system infrastructure:
 - Capacity
 - Pressure
 - Fire Flow
- Analyze pressure zone boundaries
- Develop/evaluate servicing strategies

The framework for evaluating alternative water and wastewater servicing strategies was based on the **Twelve Point** Evaluation Criteria, consisting of:

1. Environmental Impacts
2. Socio-Economic Impacts
3. Regional Policies & Guidelines Impacts
4. Legal/Jurisdictional Impacts
5. Technical Impacts
6. Phasing Impacts
7. Sizing Impacts
8. Constructability Impacts
9. Build Out Impacts
10. Implementation & Operability Impacts
11. Servicing Integration Impacts
12. Financial Impacts

Wastewater Strategies

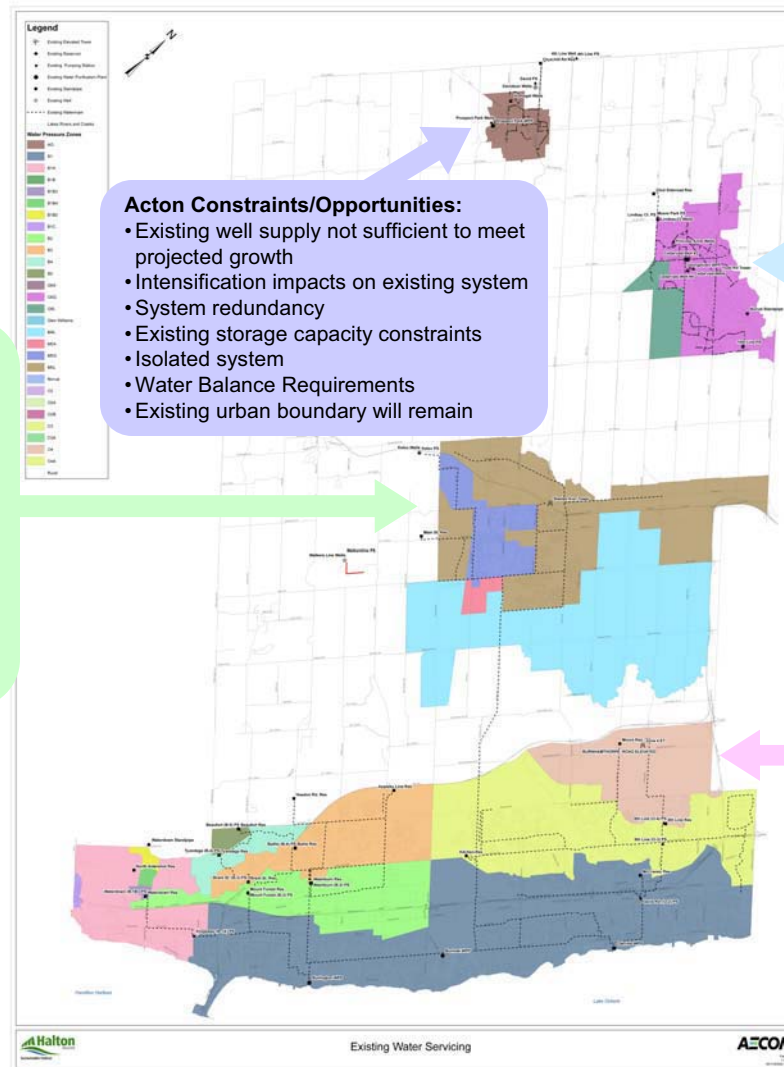
Evaluation

- Continue to meet all MOE requirements, including effluent quality standards
- Evaluate growth and inflow and infiltration
- Consider system security and redundancy
- Ensure that operating considerations are addressed
- Use the model to assess impact of new growth flows (based on projected BPEs) on system infrastructure:
 - Capacity
 - d/D
- Develop/evaluate servicing strategies

Water Servicing Preliminary Strategy



Water Infrastructure and Servicing Issues



Milton Constraints/Opportunities:

- Existing well supply not sufficient to meet current & projected growth
- Intensification impacts on existing system
- Constraints:
 - Walker's Line Wells – limited supply, not meeting PTTW, surge tank/watermain rehabilitation required,
 - Kelso Water Plant – optimization required to increase production, not meeting PTTW
- Groundwater system servicing redundancy
- Political / public perception of maintaining groundwater service area
- Pressure zone boundary adjustments

Acton Constraints/Opportunities:

- Existing well supply not sufficient to meet projected growth
- Intensification impacts on existing system
- System redundancy
- Existing storage capacity constraints
- Isolated system
- Water Balance Requirements
- Existing urban boundary will remain

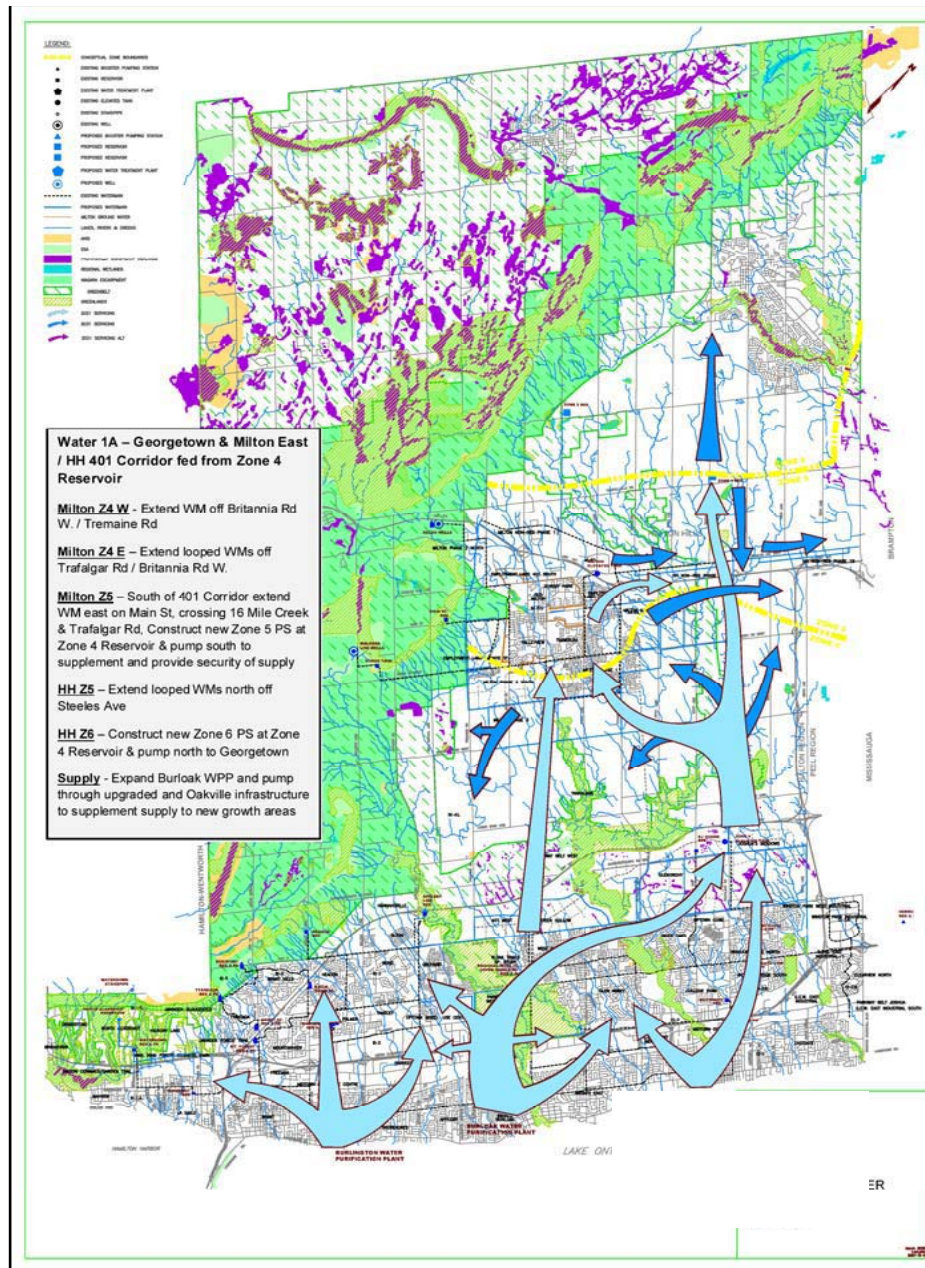
Georgetown Constraints/Opportunities:

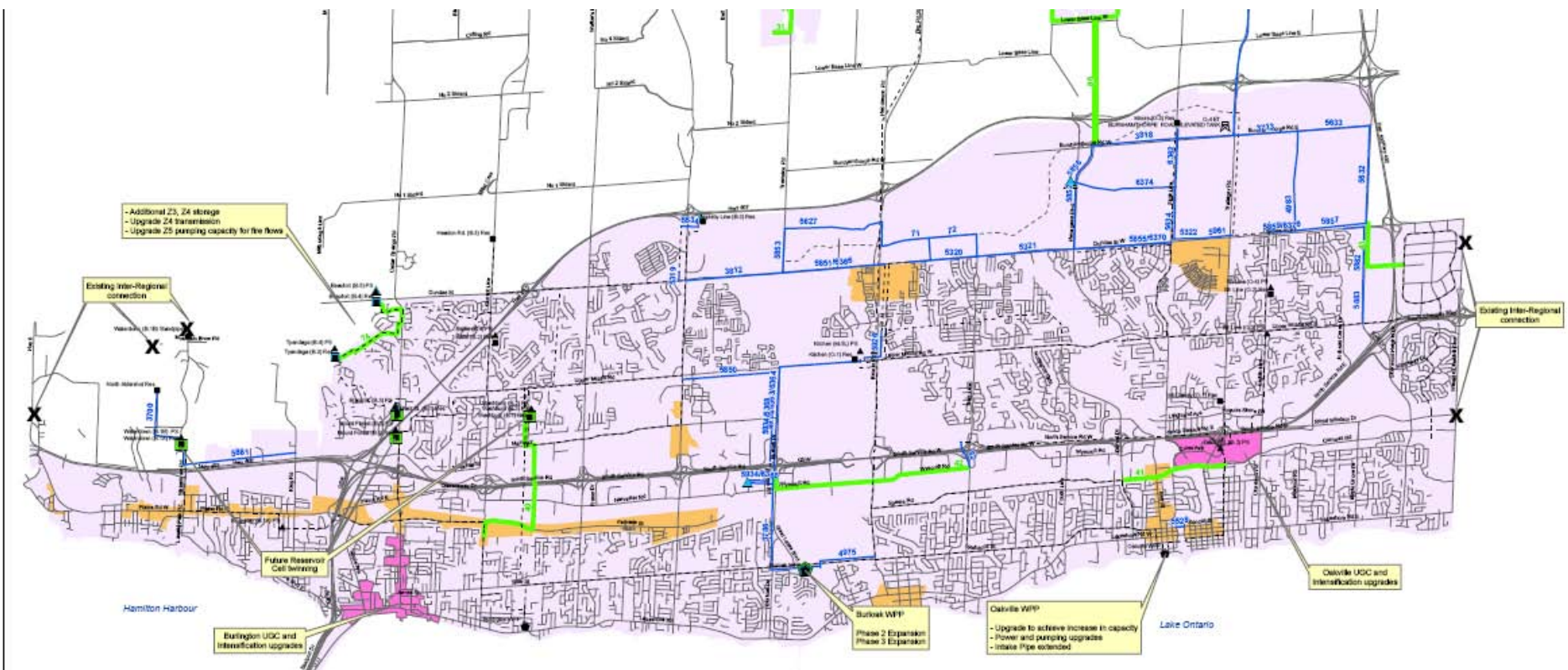
- Existing well supply not sufficient to meet growth
- Intensification impacts on existing system
- System Redundancy
- Existing storage constraints (operational & quantity)
- Hamlets servicing requirement
- Expanded urban boundary (large greenfield growth)
- Water Balance Requirements
- Political / public perception of maintaining groundwater service area
- Interregional water connection

South Halton Constraints/Opportunities:

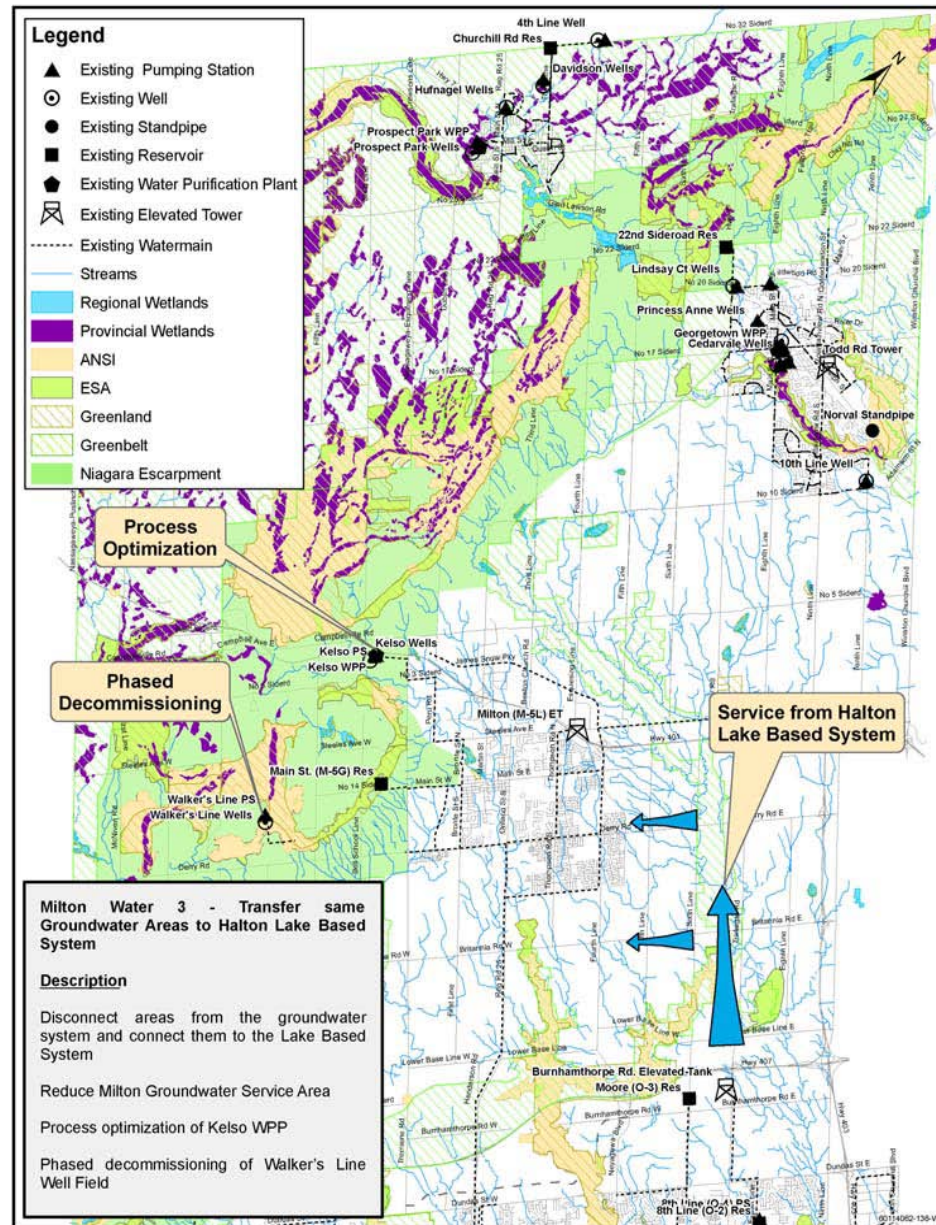
- Intensification impact on existing system
- Impact of transferring areas in Milton and Georgetown to lake based system
- Treatment capacity vs. projected demands
- Pressure zone boundary adjustments
- System redundancy
- West to east water transfer
- Build-out servicing
- Operational constraints in existing Burlington area
- Interregional water connections

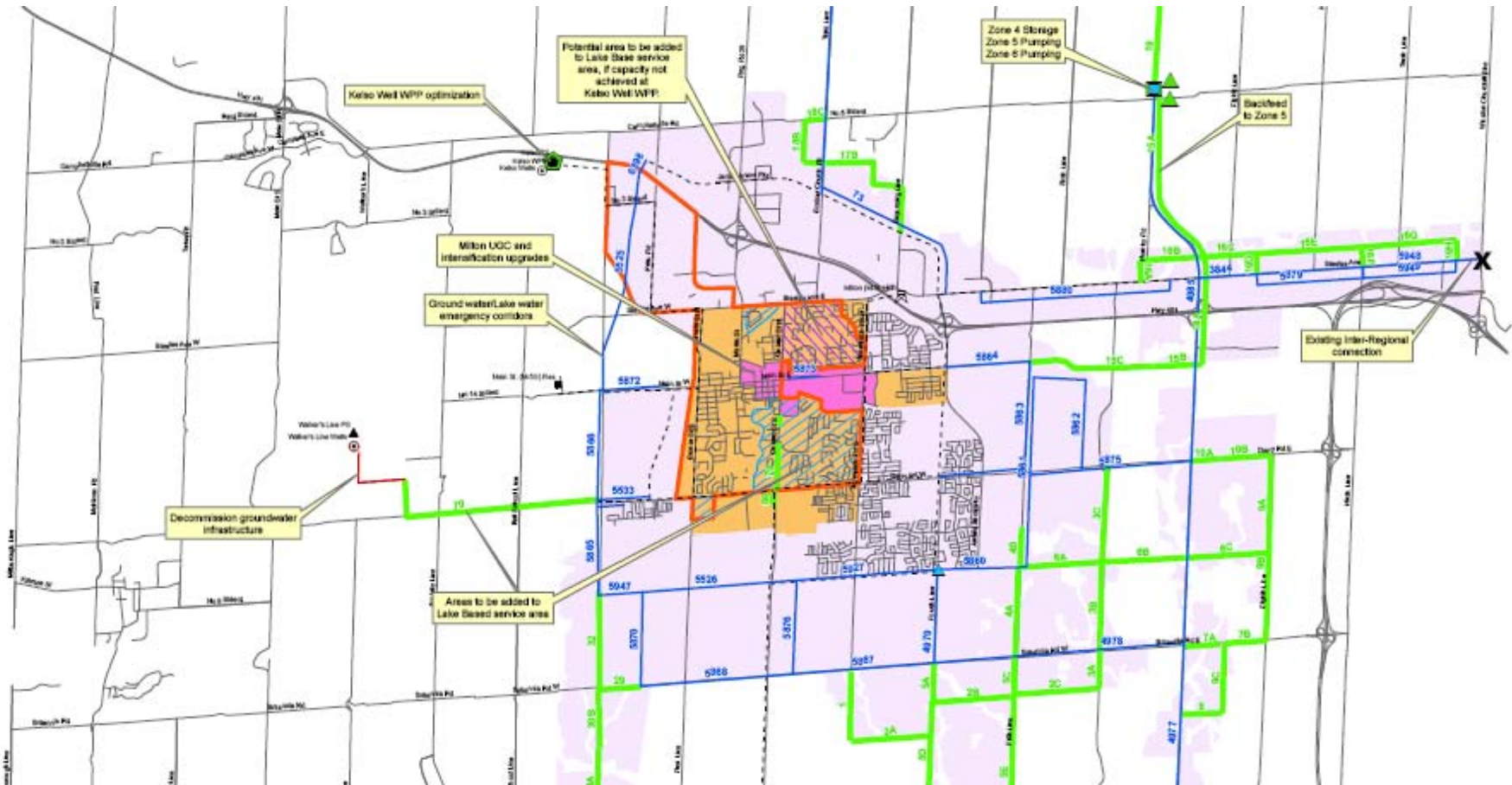
South Halton Preliminary Preferred Water Servicing Strategy



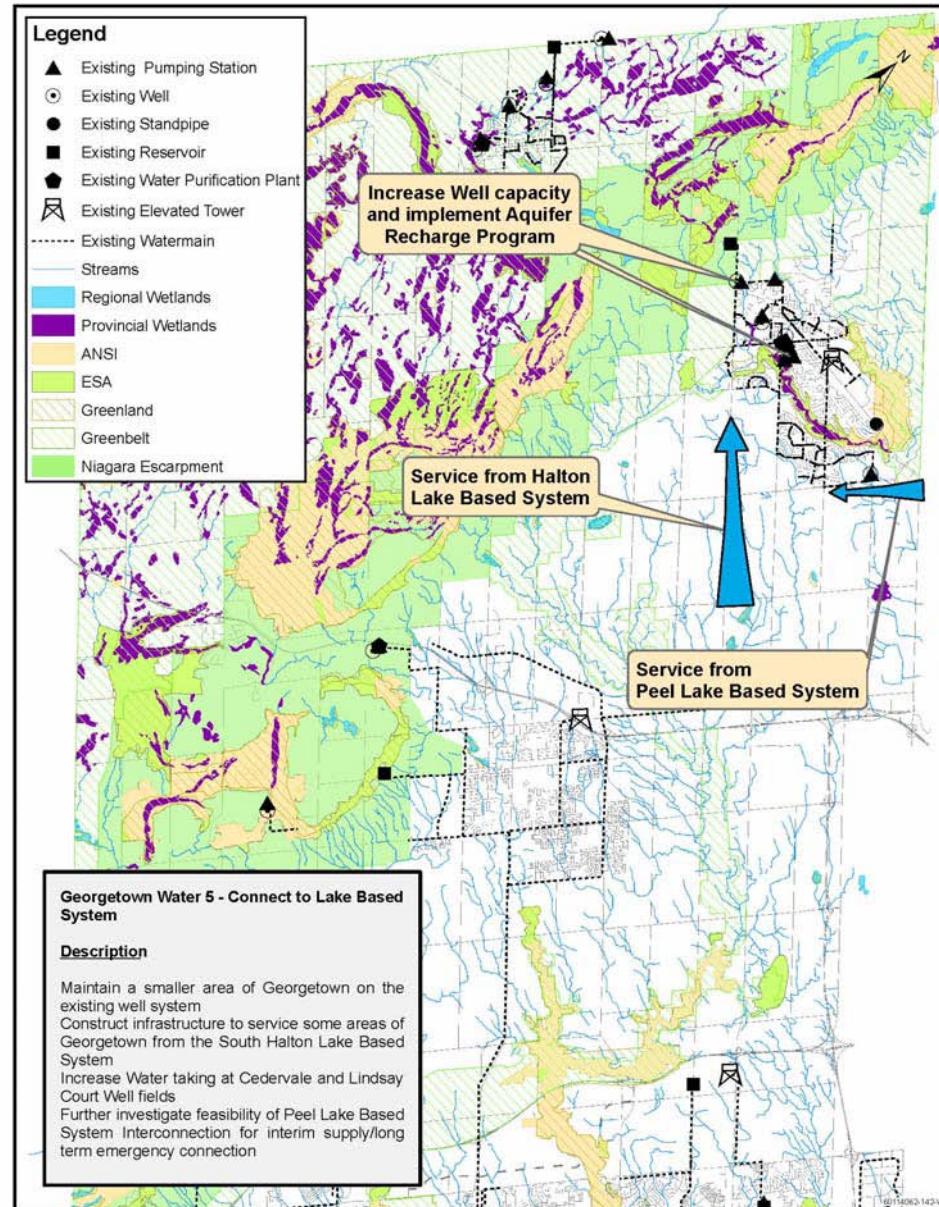


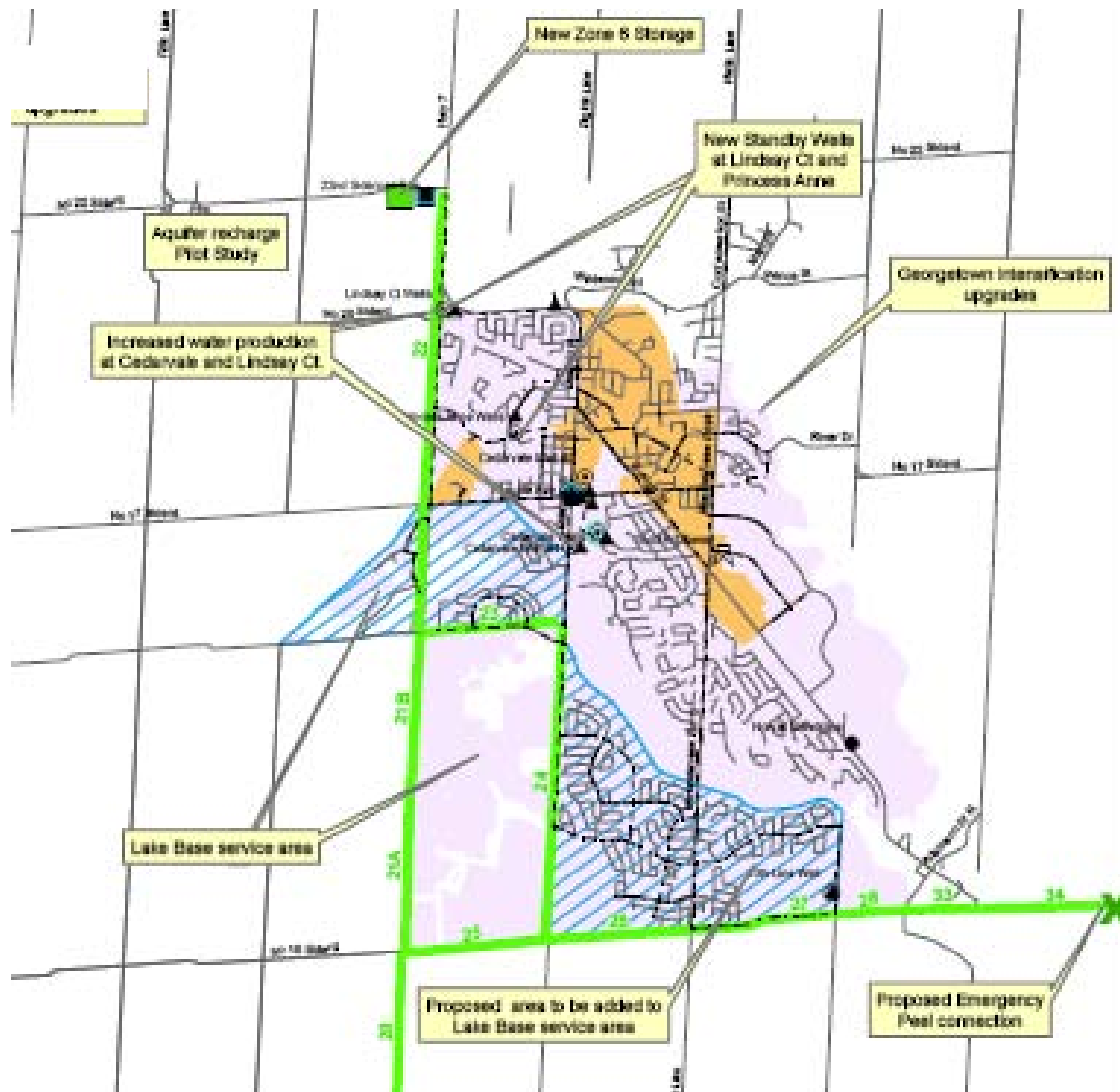
Milton Preliminary Preferred Water Servicing Strategy



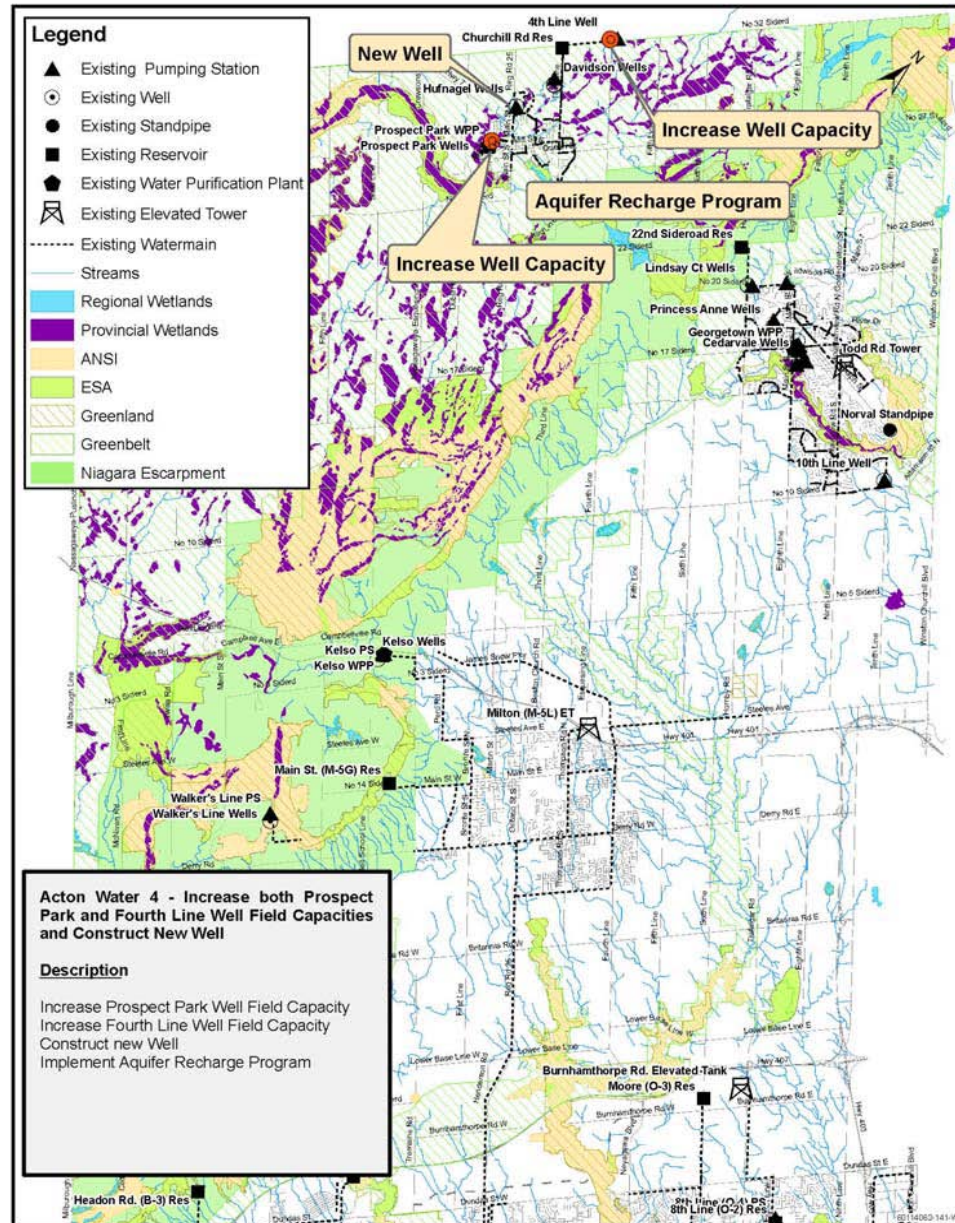


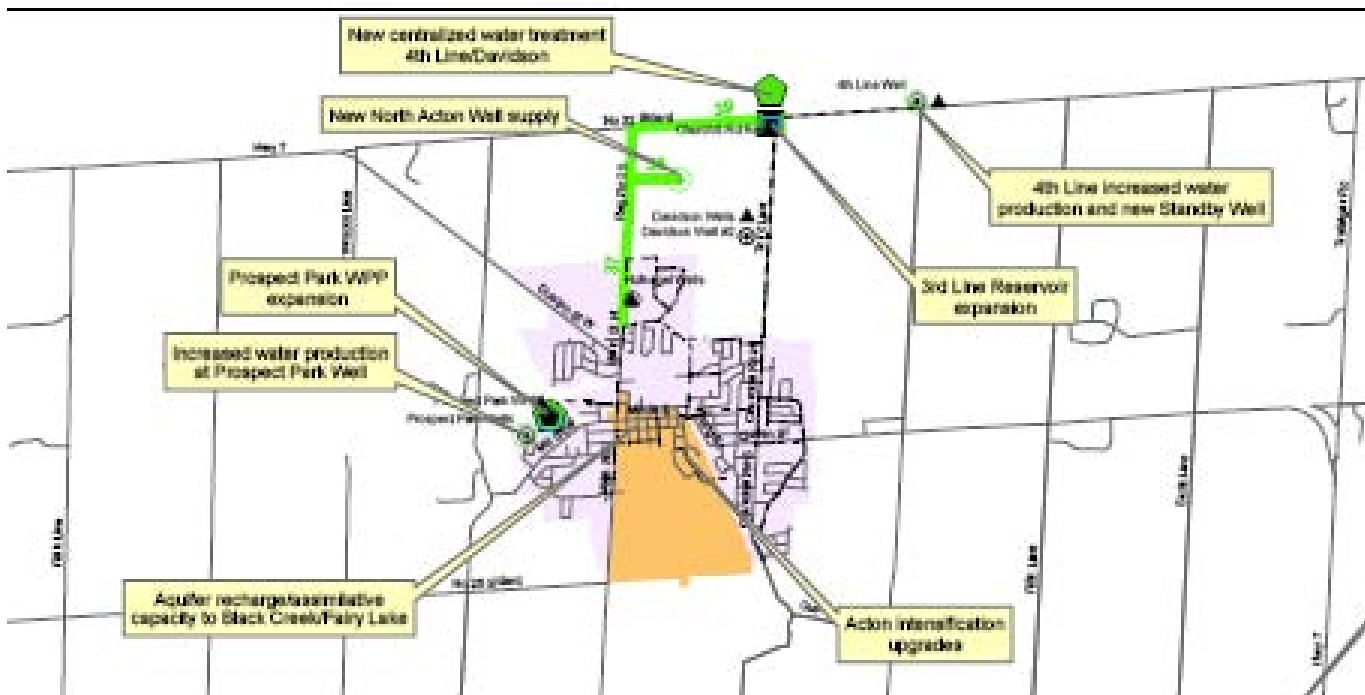
Georgetown Preliminary Preferred Water Servicing Strategy





Acton Preliminary Preferred Water Servicing Strategy





Water Efficiency: A Four-Pronged Approach

- Part of the overall water strategy includes Halton Region's ongoing water efficiency program which incorporates:
 - Technical Measures (e.g. System Leak Detection)
 - Regulatory Measures (e.g. Waterworks By-Law)
 - Financial Measures (e.g. Rebates, Rate Structure)
 - Marketing, Community Outreach & Education
- Halton Region is targeting a 5% reduction in water use



Wastewater Servicing Preliminary Strategy



Wastewater Infrastructure and Issues

Acton Constraints/Opportunities:

- Existing treatment capacity not sufficient to meet projected growth
- High inflow & infiltration
- Isolated service area
- Planned growth is within existing urban boundary (smaller scale growth)
- Stream based assimilative capacity criteria restrictive for expansion
- Need to consider minimum flows in receiving streams and water balance
- Potential impact on existing infrastructure with additional intensification flow

Georgetown Constraints/Opportunities:

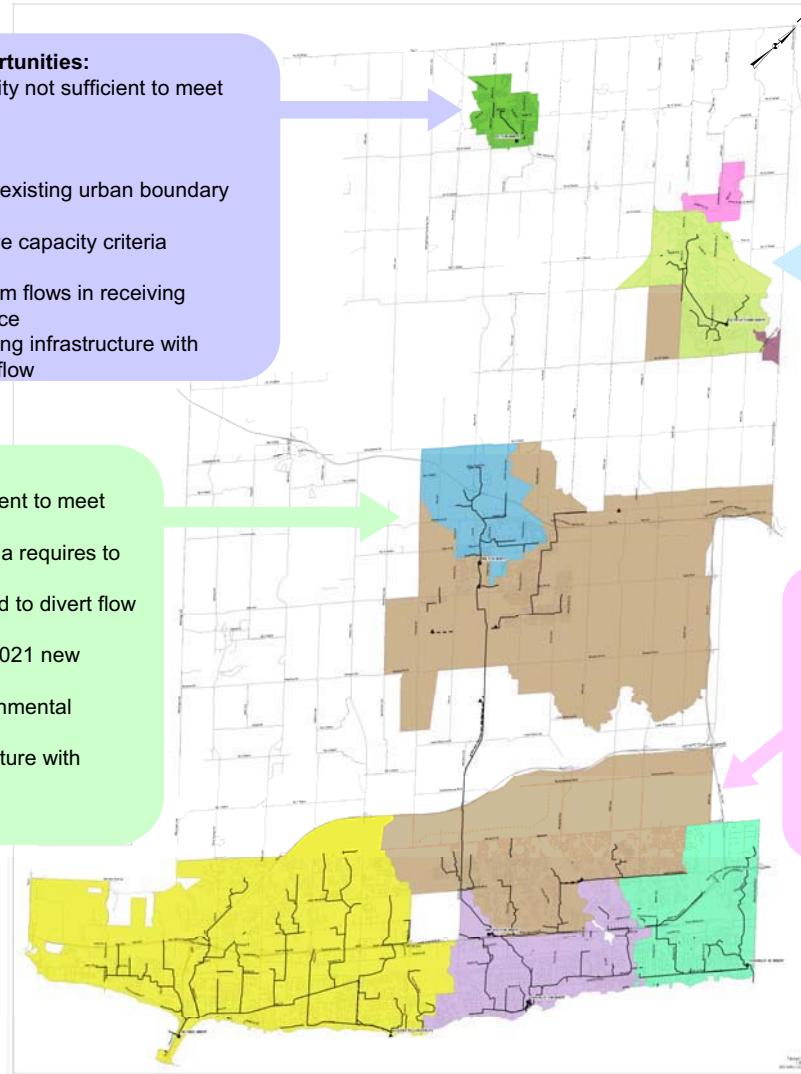
- Existing treatment capacity not sufficient to meet 2031 flows
- Isolated system
- Topographical constraints may require pumping
- Large, Greenfield service area growth
- Potential impact on existing infrastructure with additional intensification flow
- Stream based stringent effluent criteria requires to be met if expanded

Milton Constraints/Opportunities:

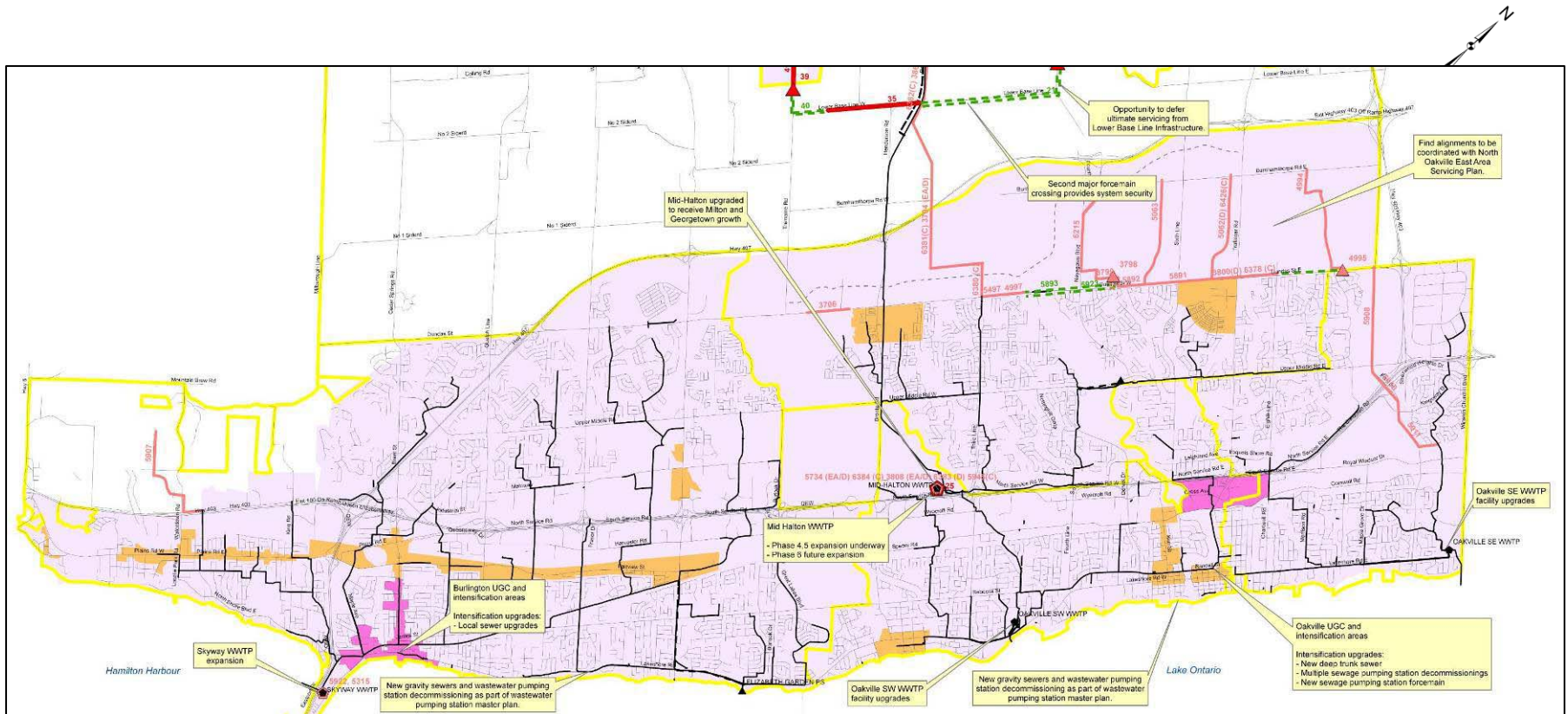
- Existing treatment capacity not sufficient to meet projected growth
- Stream based stringent effluent criteria requires to be met if expanded
- Existing & planned infrastructure sized to divert flow in excess of existing plant capacity
- Milton experiencing majority of post 2021 new growth
- Divided drainage areas due to environmental features
- Potential impact on existing infrastructure with additional intensification flow
- Growth is distributed
- Phasing challenges

South Halton Constraints/Opportunities:

- Potential impact on existing infrastructure with additional intensification flow
- Continued operation & maintenance cost of existing collection system
- High operation, maintenance and life cycle costs with continued operation of South Halton wastewater pumping stations
- Treatment capacity vs. projected flows
- Skyway WWTP tertiary treatment required to support RAP targets



South Halton Wastewater Servicing Strategy



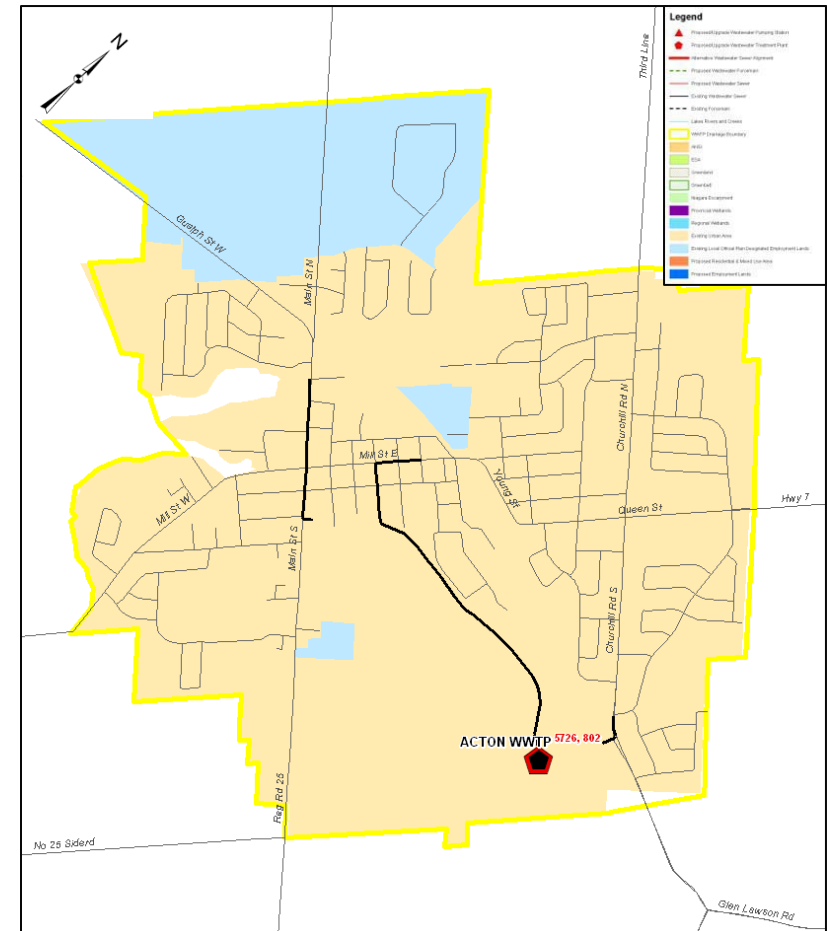
Acton Wastewater Servicing Strategy

Preliminary preferred wastewater servicing strategy:

- Expand treatment capacity at existing Acton WWTP to meet 2031 flows (consistent with current Class EA Schedule C project)
- Allow system to operate independently

Rationale is to:

- Minimize impact to environmental features
- Maximize use of available infrastructure
- Halton-only solution



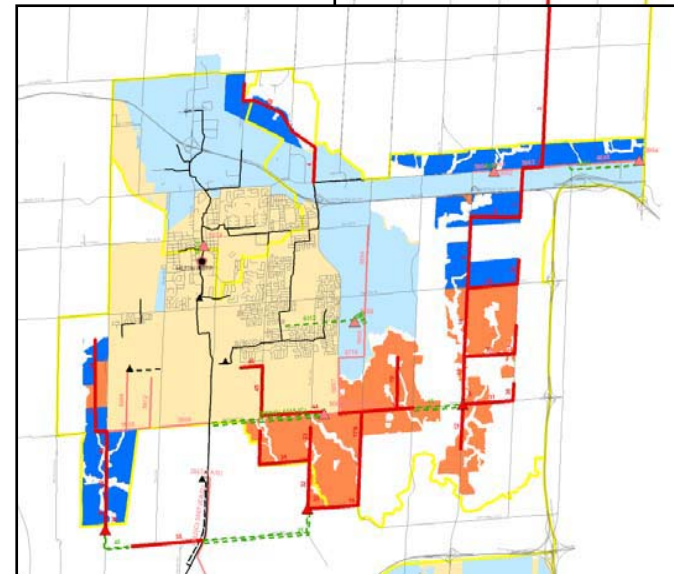
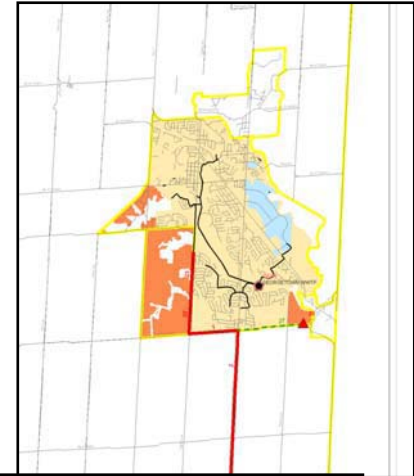
Georgetown Wastewater Servicing Strategy

Preliminary preferred wastewater servicing strategy :

- Existing WWTP to service existing urban boundary and hamlets (out to 2031)
- Greenfield growth serviced by new gravity sewer draining to the south

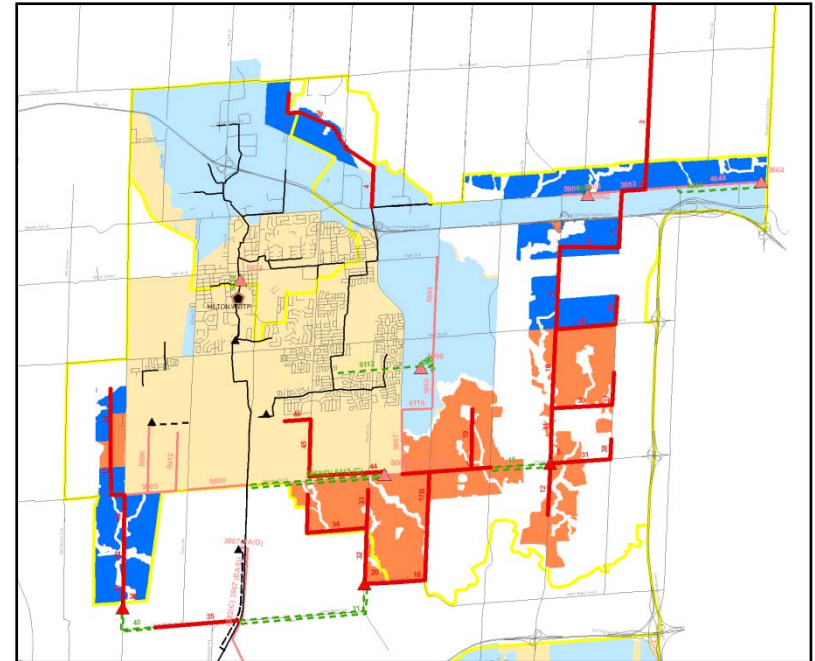
Rationale is to:

- Minimize impact to environmental features
- Coordinate with road widening/phasing of growth
- Maximize available collection, treatment, and capacity in south system
- Develop a servicing strategy that has the flexibility to peel off areas (Stewarttown and South Hill) within Georgetown WWTP drainage area and send those flows south via 8th/9th Line Trunk Sewer



Milton Wastewater Servicing Strategy

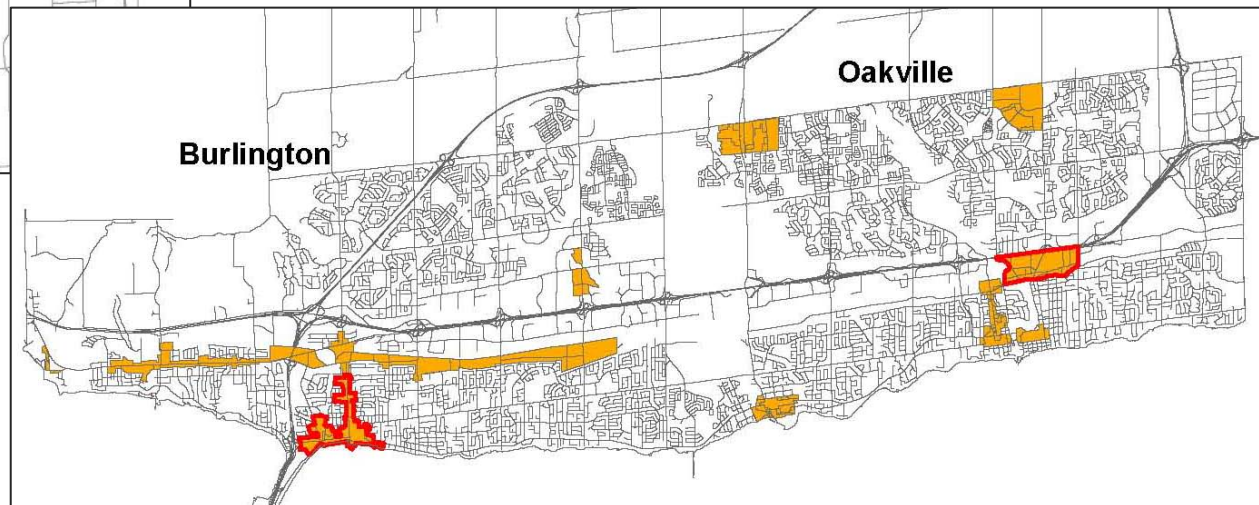
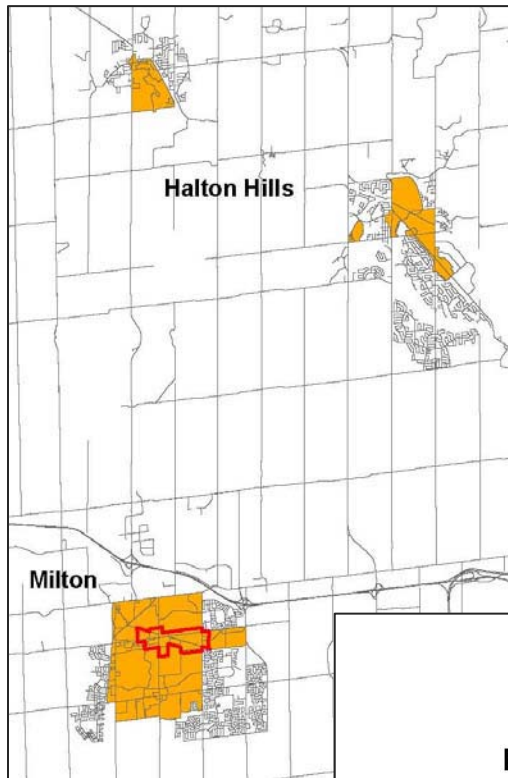
- Preliminary preferred wastewater servicing strategy for Milton is as follows:
 - Continue to divert flows to Mid Halton
 - Expand Fulton Sewage PS capacity at Milton WWTP
 - Expand gravity collection system
 - Construct seven new pumping stations and forcemains to service growth areas
- Rationale is to:
 - Build off existing & planned infrastructure
 - Overcome topographical and environmental constraints
 - Develop an overall servicing strategy that facilitates phasing of growth/development
 - Coordinate with planned transportation projects



Intensification



Intensification Areas and Urban Growth Centres



- Target 40% growth within existing built boundary
- Intensification analysis included a review of potential impact to existing local and trunk level infrastructure
- Trunk level projects, such as pumping station, watermain and sanitary sewer upgrades, triggered by intensification will be included in the Master Plan's Preferred Strategy Capital Program
- Local level projects will be grouped by area to capture future impact on local servicing

Intensification Projects

Acton Water Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$2.12 M

Acton Wastewater Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$3.95 M

Georgetown Water Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$3.43 M

Georgetown Wastewater Capital Program

Tier 1 Triggered Projects: \$0 M
 Tier 2 Potentially Triggered Projects: \$5.82 M

Burlington Water Capital Program

Tier 1 Triggered Projects: \$9.72 M
 Tier 2 Potentially Triggered Projects: \$2.25 M

Burlington Wastewater Capital Program

Tier 1 Triggered Projects: \$6.80 M
 Tier 2 Potentially Triggered Projects: \$7.12 M

Oakville Water Capital Program

Tier 1 Triggered Projects: \$2.97 M
 Tier 2 Potentially Triggered Projects: \$5.76 M

Oakville Wastewater Capital Program

Tier 1 Triggered Projects: \$70.26 M
 Tier 2 Potentially Triggered Projects: \$1.68 M

•Tier 1: triggered projects based on exceeding existing level of service.

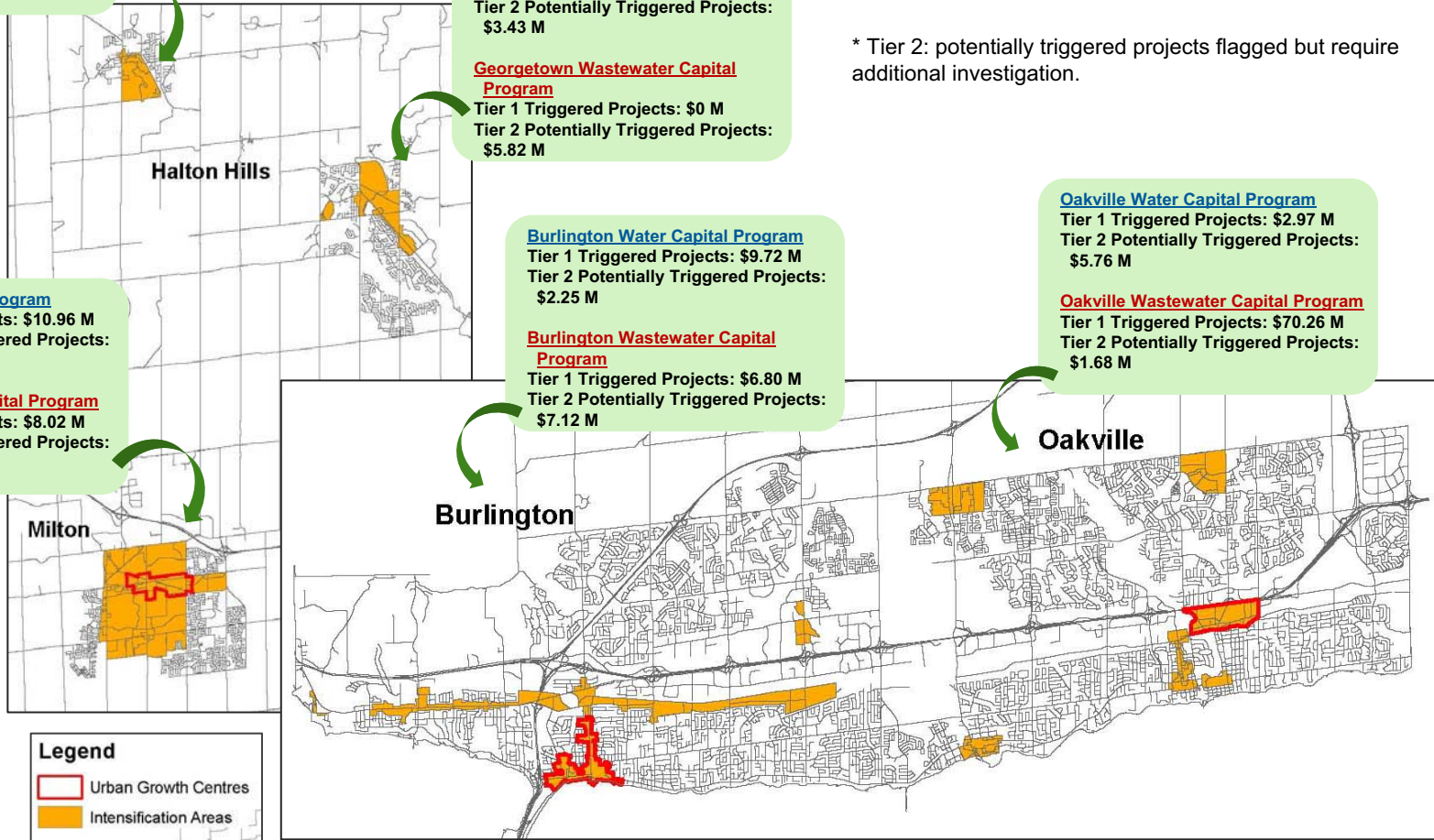
* Tier 2: potentially triggered projects flagged but require additional investigation.

Milton Water Capital Program

Tier 1 Triggered Projects: \$10.96 M
 Tier 2 Potentially Triggered Projects: \$3.41 M

Milton Wastewater Capital Program

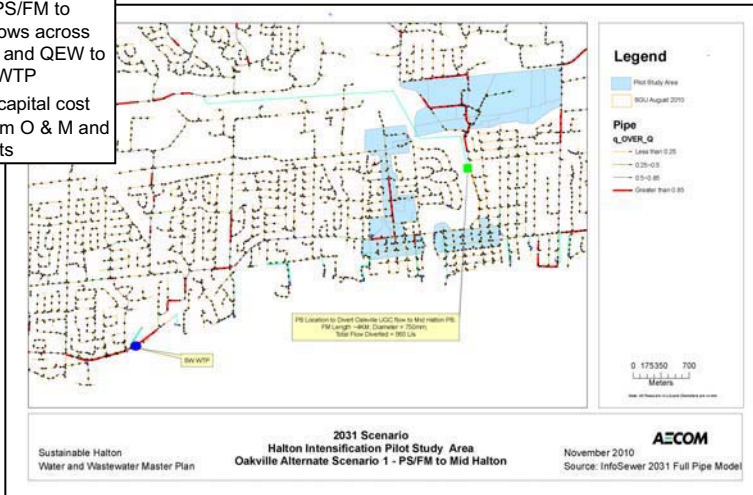
Tier 1 Triggered Projects: \$8.02 M
 Tier 2 Potentially Triggered Projects: \$1.88 M



Oakville Urban Growth Centre (UGC) Wastewater Servicing Evaluation

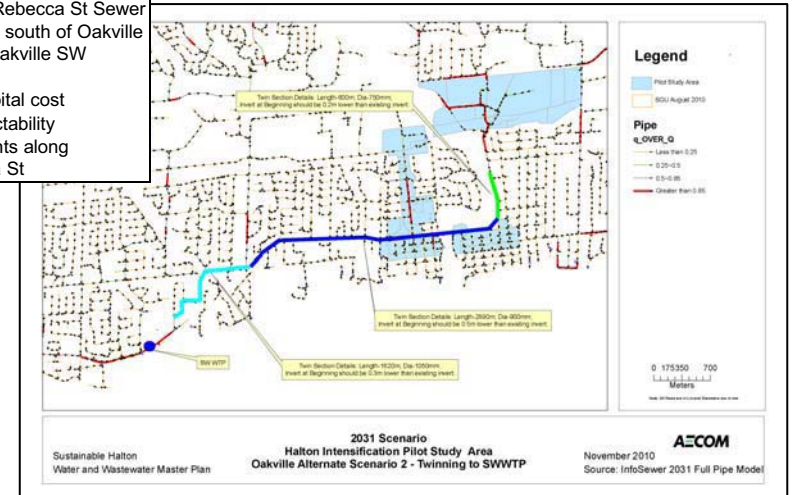
Oakville UGC Alternative 1

- 1 – New WWPS/FM to pump UGC flows across 16 Mile Creek and QEW to Mid Halton WWTP
- Lower initial capital cost
- High long term O & M and life cycle costs



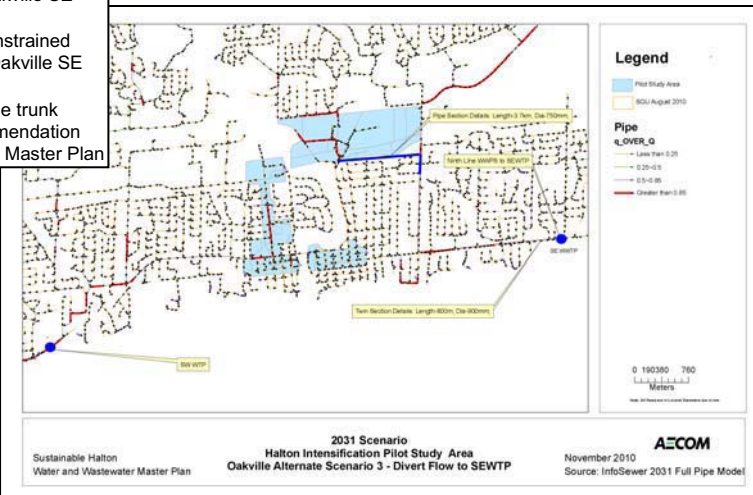
Oakville UGC Alternative 2

- 2 – New Rebecca St Sewer Twin from south of Oakville UGC to Oakville SW WWTP
- High capital cost
- Constructability constraints along Rebecca St



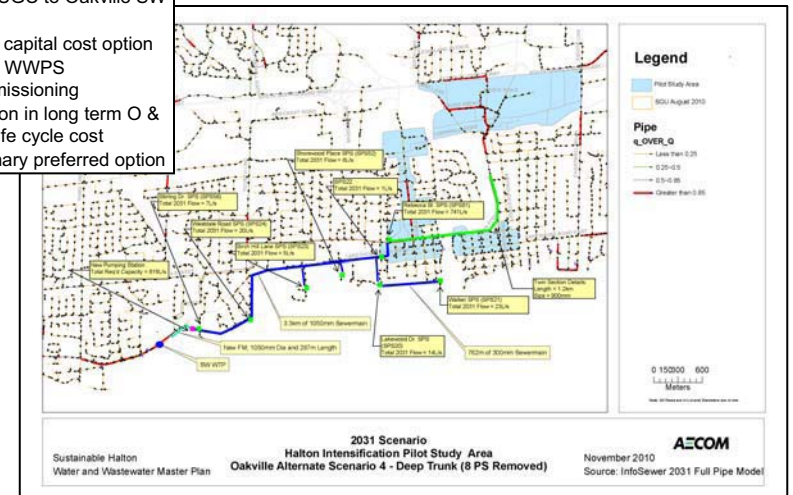
Oakville UGC Alternative 3

- 3 – New gravity sewer diversion to Oakville SE WWTP
- Impact on constrained capacity at Oakville SE WWTP
- Could leverage trunk sewer recommendation under WWPS Master Plan



Oakville UGC Alternative 4

- 4 – New deep trunk sewer from south of UGC to Oakville SW WWTP
- Highest capital cost option
- Multiple WWPS decommissioning
- Reduction in long term O & M and life cycle cost
- Preliminary preferred option



Preliminary Cost Estimates

- Preliminary cost estimates have been developed for the preliminary preferred strategies
- It is anticipated that there will be refinements to the servicing strategies based on feedback from consultation. These refinements are also anticipated to impact the cost estimates.
- The preliminary costs estimates presented below are for information purposes and represent “order of magnitude” cost estimates.
- The costs will be updated for the final documentation and will feed into the Region of Halton Development Charges Update process.

Water

2011 Sustainable Halton Master Plan (in 2012 Dollars)	
2021 Program Includes North and South Halton	\$700M - \$800M
2031 Program	\$450M - \$500M

Wastewater

2011 Sustainable Halton Master Plan (in 2012 Dollars)	
2021 Program Includes North and South Halton	\$625M - \$725M
2031 Program	\$275M - \$325M

Next Steps

- Reviewing recent feedback from PICs and internal/external TACs which may result in refinement of the servicing strategies (impact infrastructure location and overall strategy capital costing).
- The final program will be reflected in the final documentation as required through the Class EA process.
- File the documentation on public record for a 45 day review period.
- Upon Master Plan completion:
 - Schedule A, A+,B projects not requiring further study would move forward to implementation based on the identified schedule.
 - Key follow-up studies would be undertaken as required.
 - Schedule C Projects would move forward to complete Phases 3 and 4 under stand-alone studies based on the identified schedule

Questions

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Email: john.duong@halton.ca



Water Planning
Water Services, Public Works
1151 Bronte Road
Oakville ON L6M 3L1

HAPP MEETING AGENDA

Date: Dec 10, 2009

Time: 9:00 am

Location: Halton Region, 1075 North Service Road - Oak Room

Invitees: **Jacqueline Weston** **Chris Hamel, AECOM**
John Duong **Chris Campbell, AECOM**
Robert Walters
David Simpson
Mickey Liu

Purpose: Present Water & Wastewater Servicing Master Plan approach and methodology in reviewing existing water and wastewater capacity within intensification areas.

Agenda

- 1.0 Water and Wastewater Master Plan Approach
 - Scope: Focus on trunk infrastructure analysis
- 2.0 Intensification Analysis
 - Water and wastewater servicing infrastructure opportunities/constraints
 - Servicing Capacity Summaries (specific to each Local Municipality)
- 3.0 Delineation of Traffic Zones into Small Geographic Units
- 4.0 Project Schedule
- 5.0 Other Business
- 6.0 Next Steps