

Appendix A

Agency Consultation

Local Municipalities Contacts										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
Mr.	Lunardo	Domenic	Commissioner Community Services	Corporation of the Town of Oakville	1225 Trafalgar Road	Oakville	ON	L6H 0H3		
Ms.	Jane	Clohecy	Commissioner Planning and Development	Corporation of the Town of Oakville	1225 Trafalgar Road	Oakville	ON	L6H 0H3		
Ms.	Dana	Anderson	Director, Planning Services	Corporation of the Town of Oakville	1225 Trafalgar Road	Oakville	ON	L6H 0H3		
Mr.	Paul	Allen	Manager of Design and Construction	Corporation of the Town of Oakville	1225 Trafalgar Road	Oakville	ON	L6H 0H3		
Mr.	Dan	Cozzi	Director of Engineering & Construction	Corporation of the Town of Oakville	1225 Trafalgar Road	Oakville	ON	L6H 0H3		
Mr.	Philip	Kelly	Manager, Development - Development Engineering	Corporation of the Town of Oakville	1225 Trafalgar Road	Oakville	ON	L6H 0H3		
Mr.	Bruce	Krushelnicki	Director of Planning	City of Burlington	426 Brant Street	Burlington	ON	L7R 3Z6		
Mr.	Tom	Eichenbaum	Director of Engineering	City of Burlington	426 Brant Street	Burlington	ON	L7R 3Z6		
Local Councilors										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
Mr.	Robert	Burton	Mayor of Oakville	Oakville Council	1225 Trafalgar Rd.	Oakville	ON	L6J 5A6	905-338-4173	905-815-2001
Mr.	Ralph	Robinson	Local Councillor	Oakville Council - Ward 1	390 Yale Crescent	Oakville	ON	L6L 3L5	905-827-7659	905-465-0399
Mr.	Alan	Johnston	Regional Councillor	Oakville Council - Ward 1	2154 Hixon Street	Oakville	ON	L6L 1T4	905-825-9586	
Mr.	Rick	Golding	Mayor of Burlington	Burlington Council	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6	905-335-7607	905-825-9587
Mr.	Paul	Sharman	Local Councillor	Burlington Council - Ward 5	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6	905-335-7600 Ext. 7591	905-335-7881
Provincial and Federal Review Agencies										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
MEA, Notices: EAAB@ontario.ca										
Ms.	Jane	De Vito	Environmental Planner Watershed Management Services	Conservation Halton	2596 Britannia Road West RR#2	Burlington	ON	L7P 0G3	(905) 336-1158 x 235	(905) 336-7014
Mr.	Jim	Chan	Project Manager	Canadian Environmental Assessment Agency	55 St. Clair Avenue Room 907	Toronto	ON	M4T 1M2		
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		
Mr.	Barry	Putt	Regional Manager, Navigable Waters Protection	Department of Fisheries and Oceans, Coast Guard, Central & Arctic Region	100 Front Street South	Sarnia	ON	N7T 2M4	519-383-1862	519-383-1989
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	(905) 336-4953	(905) 336-8901
Mr.	Steven	Mitchell	Architect - GOOD PLACES TO LEARN UNIT	Ministry of Education	Mowat Block, 900 Bay St. 21st Flr	Toronto	ON	M7A 1L2	416-325-2015	
Mr.	Malcolm	Horne	Archaeology Review Officer	Ministry of Culture	400 University Avenue, 4th Floor	Toronto	ON	M7A 2R9	(416) 314-7146	(416) 314-7176
Ms.	Tija	Dirks	Director of Growth Policy, Planning and Analysis	Ministry of Energy and Infrastructure	777 Bay Street, 4th Floor	Toronto	ON	M5G 2E5		
Ms.	Agatha	Garcia-Wright	Director, Environmental Assessment (Acting)	Ministry of the Environment, Environmental Assessment and Approvals Branch	2 St Clair Ave W, 12A Flr	Toronto	ON	M4V 1L5	416-314-7288	
Ms.	Tina	Dufresne	District Manager	Ministry of the Environment, Halton-Peel District Office	4145 North Service Rd, Ste 300	Burlington	ON	L7L 6A3	(905) 319 1870	(905) 319 9902
	Oral	Binda	Manager - DRINKING WATER COMPLIANCE (CENTRAL REGION)	Ministry of the Environment, Drinking Water Management Division	2 St. Clair Avenue West, 19th Floor	Toronto	ON	M4V 1L5	416-314-7652	
Mr.	Ian R.	Smith	Director - SOURCE PROTECTION PROGRAMS BRANCH	Ministry of the Environment, Drinking Water Management Division	2 St. Clair Avenue West, 8th Floor	Toronto	ON	M4V 1L5	416-212-6459	
Ms.	Shannon	McNeill	Environmental Resource Planner/EA Coordinator	Ministry of the Environment, Air, Pesticides & Environmental Planning	5775 Yonge Street, 9th Floor	Toronto	ON	M2M 4J1	(416) 326-4839	(416) 325-6347
Mr.	Daniel	Delaquis	Environmental Resource Planner/EA Coordinator	Ministry of the Environment, Air, Pesticides & Environmental Planning	5775 Yonge Street, 8th Floor	Toronto	ON	M2M 4J1		
Mr.	Paul	McCue	Senior Program Consultant - Environmental Health Section	Ministry of Health and Long-Term Care, Environmental Health	1075 Bay St, 11th Flr	Toronto	ON	M5S 2B1	416-327-7424	
Mr.	Robert	Nosal	Medical Officer of Health	Halton Region Health Department	1151 Bronte Road	Oakville	ON	L6M 3L1		
Ms.	Audrey	Bennet	Director - PROVINCIAL PLANNING POLICY BRANCH	Ministry of Municipal Affairs and Housing	777 Bay St, 14th Floor	Toronto	ON	M5G 2E5	416-585-6072	
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		
Mr.	John	Almond	Area Supervisor, Halton/Peel/Toronto (Acting)	Ministry of Natural Resources, Aurora District	50 Bloomington Road W	Aurora	ON	L4G 3G8	905-713-7385	
Mr.	Steven	Strong	District Planner	Ministry of Natural Resources	50 Bloomington Road W	Aurora	ON	L4G 3G8	(905) 713-7366	
Ms.	John	Pisapio	Biologist	Ministry of Natural Resources	50 Bloomington Road W	Aurora	ON	L4G 3G8	905-713-7387	
Mr.	Lou	Politano	Regional Director (Acting) - CENTRAL REGION (TORONTO)	Ministry of Transportation	1201 Wilson Ave, 2nd FL., Bldg. D	Downsview	ON	M3M 1J8	416-235-5400	
			Environmental Assessment Coordinator	Transport Canada, Ontario Region, Environmental & Engineering (PHE)	4900 Yonge Street, 4th Floor	Toronto	ON	M2N 6A5		
Ms.	Carol	Neumann	Rural Planner, Environmental and Land Use Policy	Ontario Ministry of Agriculture, Food and Rural Affairs	6484 Wellington Road 7, Unit 10	Elora	ON	N0B 1S0	519-846-3393	
SSgt.		Whinnery		Ontario Provincial Police, HSD-BURLINGTON	1160 North Shore Blvd. East	Burlington	ON	L7S 1C5	905-681-2511	905-681-2893
Mr.	Gord	Miller	Environmental Commissioner of Ontario		1075 Bay Street, Suite 605	Toronto	ON	M5S 2B1	(416) 325-3377	
Mr.	Greg	Flood	Communications Branch	Ontario Ministry of Aboriginal Affairs	160 Bloor Street East, 4th floor	Toronto	ON	M7A 2E6		
Ms.	Deborah	Richardson	Assistant Deputy Minister	Ministry of Aboriginal Affairs Aboriginal Relations and Ministry Partnerships Division	9th Floor, 160 Bloor Street East	Toronto	ON	M7A 2E6	416-325-0304	

First Nations Groups and First Nations Consultation Agencies										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
			Portfolio Manager for Research	Indian and Northern Affairs Canada	10 Wellington Street	Gatineau	QC	K1A 0H4	819-953-2228	819-953-4224
Ms.	Linda	MacWilliams	Regional Manager, Land Operations Ontario Region	Indian and Northern Affairs Canada	25 St. Clair Avenue East, 5th Floor	Toronto	ON	M4T 1M2	416-973-6923	416-954-4328
Mr.	Dennis	Madill	Manager (Acting) Claims Research and Assessment Directorate - Claims and Historical Research Centre	Indian and Northern Affairs Canada	10 Wellington Street, 13th Floor	Gatineau	QC	K1A 0H4	819-997-8155	819-997-9873
Mr.	Don	Boswell	Senior Claims Analyst, Specific Claims Branch	Indian and Northern Affairs Canada, Specific Claims Branch	10 Wellington Street, Room 1310	Gatineau	QC	K1A 0H4		819-956-2258
Ms.	Louise	Trepanier	Director, Claims East of Manitoba, Comprehensive Claims Branch	Indian and Northern Affairs Canada, Comprehensive Claims Branch	10 Wellington Street, Room 1310	Gatineau	QC	K1A 0H4	819-953-3109	819-956-2258
Mr.	Franklin	Roy	Litigation Portfolios, Operations and Negotiation	Indian and Northern Affairs Canada, Litigation Management and Resolution Branch	10 Wellington Street, Room 1310	Gatineau	QC	K1A 0H4		819-997-1679
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		416-326-4181
Ms.	Pam	Wheaton	Director, Policy and Relationships Branch	Ontario Secretariat of Aboriginal Affairs	720 Bay Street, 4th Floor	Toronto	ON	M5G 2K1		
Ms.	Patrick	Madahbee	Grand Council Chief	Union of Ontario Indians Nipissing First Nation	PO Box 711	North Bay	ON	P1B 8J8	705 497-9127	705 497-9135
Chief	Brvan	LeForme		Mississaugas of the New Credit	2789 Mississauga Rd., R.R. #6	HAGERSVILLE	ON		(905) 768-1133	(905) 768-1225
Mr./Ms.			Métis Consultation Unit	Métis Nation of Ontario Head Office	500 Old St. Patrick Street, Unit D	Ottawa	ON	K1N 9G4		(613) 725-4225
Ms.	Carol	Hill	Director	Association of Iroquois and Allied Indians	387 Princess Avenue	London	ON	N6B 2A7	519-434-2761	519-679-1653
Mr.	Andre	Morisseau	Communications Officer	Chiefs of Ontario	111 Peter Street, Suite 804	Toronto	ON	M5V 2H1	(416) 597 1266	(416) 597 8365
Chief	William K.	Montour		Six Nations of the Grand River Territory	P.O. Box 5000	Ohsweken	ON	N0A 1M0	519-445-2201	519-445-4208
Chief	Allen	MacNaughton		Haudenosaunee Confederacy Chiefs Council	2634 6th Line Road, R.R.#2	Ohsweken	ON	N0A 1M0	519-755-2769	
Special Interest Groups										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
Mr./Ms.				Clear the Air Coalition	380 Aspen Forest Drive	Oakville	ON	L6J 6H5	(905) 338-2787	
Mr.	Sef	Ginther		Concerned Citizens Coalition	Fire Hall #6 N Central 2022 Coral Crescent	Burlington	ON	L7P 3K5		
Mrs.	Gena	Ali	Senior Planner	Halton Ecological and Environmental Advisory Committee (EEAC)	1151 Bronte Road	Oakville	ON	L6M 3L1	905-825-6000 ext. 7554	
Ms.	Lisa	Seller	Executive Director	Halton Environmental Network	5408 Derry Road, RR#2	Milton	ON	L9T 2X6		
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		
			Executive Director	Oakville Community Centre for Peace, Ecology & Human Rights	P.O. Box 52007	Oakville	ON	L6J 7N5	(905) 849-5501	
Mrs.	Suzy	Godefroy	Manager	Oakville Downtown BIA	146 Lakeshore Rd. East	Oakville	ON	L6J 1H4		
Ms.	Liz	Bennehan	President	Oakville Green Conservation Association Inc.	1209 Half Moon Lane	Oakville	ON	L6H 2E4		
Mr.	Bob	Hanson		Oakville Sustainability Initiative	333 Balsam Drive	Oakville	ON	L6J 3X7	(905) 399-2707	
				PERL (Protecting Escarpment Rural Land)	40572 Upper Brant Postal Outlet	Burlington	ON	L7P 4W1		
Ms.	Ramona	Boddington		Town of Oakville LACAC	P.O. Box 310, 1225 Trafalgar Road	Oakville	ON	L6J 5A6		
Mr.	John	Sawyer	President	Oakville Chamber of Commerce	2521 Wycroft Road	Oakville	ON	L6L 6P8	(905) 845-6613 x 31	
Mr.	Nick	Inkster	Chairman	Lakeshore Woods Residents Association	397 Creek Path Avenue	Oakville	ON	L6L 6X6		
Mr.	Ron	Bannerman		Woodhaven Park Association	267 Savoy Crescent	Oakville	ON	L6L 1Y2		
Mr.	Allan	Eagles		Clearview Drive Ratepayers	2881 Kingsway Drive	Oakville	ON	L6J 6R8		
Mr.	Ken	Gruber	Chairman	Skyway Neighbourhood Association	5475 Lakeshore Rd. Unit 93	Burlington	ON	L7L 1E1		
Mr.	James	Robinson		Federation of Oakville Resident Groups Inc.	2738 Hardy Crescent	Oakville	ON	L6J 7C8		
Ms.	Mery	Paul		Oakville South Central Association of Residents	224 Maurice Drive	Oakville	ON	L6K 2X1		
Ms.	Liz	Morallée		People of West Oakville Residents' Association	1564 Stationmaster Lane	Oakville	ON	L6M 3A9		
Ms.	Michelle	Sloane		Clearview Oakville Community Alliance	1332 Eddie Shaine Drive	Oakville	ON	L6J 7C9		
				West Bronte Ratepayers	3171 Lakeshore Road West	Oakville	ON	L6L 1J7		
Mr.	Harry	Wooden		Ennisclaire Government Affairs Committee	1806 - 2170 Marine Drive	Oakville	ON	L6L 5V1		
Mr.	Murray	McDonald	Chair	Bronte Village Business Improvement Area	2368 Lakeshore Road West	Oakville	ON	L6L 1H5		
Mr.	John	Jeffery	Senior Researcher	Ontario Federation of Agriculture	100 Stone Road West, Ontario AgriCentre, Suite 206	Guelph	ON	N1G 5L3		
Ms.	Laurie	McGinn	President	Bronte Village Residents Association (BVRA)	3065 Seneca Drive	Oakville	ON	L6L 1A8	(905) 825-8742	
Mr.	Michael	Edwards	Executive Director	Community Development Halton	860 Harrington Court	Burlington	ON	L7N 3N4		
Mr.	Kevin	King	Director	Halton Region Ambulance Services	1179 Bronte Road Woodlands Centre	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.	Richard	Boyes	Fire Chief	Oakville Fire Department	1225 Trafalgar Road	Oakville	ON	L6J 5A6		
Mr.	Michael	Pautler	Director of Education	Halton Catholic District School Board	802 Drury Lane	Burlington	ON	L7R 2Y2		
Mr.	David	Euale	Director of Education	Halton District School Board	PO Box 5005 STN LCD 1	Burlington	ON	L7R 3Z2		
Ms.	Dauphinee	Michael Douglas		Halton Oversight Planning Group	70 Townsend Avenue	Burlington	ON	L7T 1Y7		
Mr.	Mike	Lensdown	Chair	Friends of Bronte Creek	1219 Burloak Drive	Oakville	ON	L6M 4J7	(905) 847-5667	
Ms.	Mark	Mattson	President	Lake Ontario Waterkeepers	600 Bay Street, Suite 410	Toronto	ON	M5G 1M6	(416) 861-1237	(416) 850-4313
Mr.	Don	Morrison	President	South Peel Naturalists' Club	P.O. Box 69629, 109 Thomas Street	Toronto	ON	L6J 7R4		
Mr.	Ron	Fiorelli	President	Joshua Creek Ratepayers Inc.	Box 61031 Maple Grove Station	Oakville	ON	L6J 7P5		
Mr.	Boyd	Waites	President	Oakville Lakeside Residents Association Inc.	215 Williams Street	Oakville	ON	L6J 1E1		
Mr.	Robert	Patrick	President	River Oaks Association of Residents	40 Chester Street	Oakville	ON	L6K 2X1		
Mr.	John	Wilson	Executive Director	Community Living Oakville	301 Wycroft Road	Oakville	ON	L6K 2H2	(905) 844-0146 x 270	(905) 844-1832
Mr.	Willie	Lambert	President	Oakville & District Labour Council	CAW Local 707 Hall, 475 North Service Road East	Oakville	ON	L6H 1A5	(905) 540-4011	(905) 844-0027
Mr.	Charles	Johnston	President	Southwest Central Oakville Residents Association	200 North Service Road W. Unit #1 - 550	Oakville	ON	L6M 2Y1	(905) 849 4860	
Mr.	Jim	McConnell	President	West Oak Trails Association of Residents	1237 Glen Valley Road	Oakville	ON	L6M 3K1		
				West Oakville Ratepayers Inc.	543 Stafford Drive	Oakville	ON	L6L 4M4		
Mr.	Craig	Schiller	President	West River Residents Association	396 River Side Dr.	Oakville	ON	L6K 3N7	(905) 815-9591	
Ms.	Margaret	O'Reilly	Chairman	East Lake Ratepayers	318 Maple Grove Drive	Oakville	ON	L6J 4V5		
Ms.	Anne	Platman		East Central Residents Association	508 Bohemia Crescent	Oakville	ON	L6J 2K8		
Ms.	Joyce	LeChasseur		Halton Bluebird Club	2385 Hixon Street	Oakville	ON	L6L 1T7		
				(West) Harbour Residents Association	52 Kerr Street	Oakville	ON	L6K 3A1		
Mr.	Frank	Clegg	Chairman	Citizens For Clean Air	610 Ford Drive, Suite 235	Oakville	ON	L6J 7W4		
Ms.	Pamela	Knight	President	Coronation Park Residents Association					(905) 827-4641	
Ms.	Lisa	Seller	Chair	GreenTrans	2078 Salvator Blvd.	Oakville	ON	L6L 1N1	(905) 827-8705	
	Liz			Ground Breakers Oakville	2106 Bray's Lane	Oakville	ON	L6M 2T1	(905) 849-3056	
Mr.	Harvey	Rotrand		Oakville Citizens Round Table on Public Transit (OPT)						
Ms.	Heather	Lam		River Oaks Concerned Citizens (ROCC)					(905) 257-7379	
				Affordable Housing Halton	1235 Fairview Street, Suite 162	Burlington	ON	L7S 2K9	(905) 320-4844	
Ms.	Lisa	Coleman	Chair	Burlington Transit Advisory Committee	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6	(905) 335-7600	
Mr.	Gordon	Kalting		Trafalgar Township Historical Society	3089 Jaquar Valley Road, Apt. B2	Mississauga	ON	L6A 2J1	(416) 801-9932	
Ms.	Carlyle	Khan	Regional Manager	Veolia Water Solutions & Technologies Canada Inc.	2000 Argentinia Road, Plaza IV, Suite 430	Mississauga	ON	L5N 1W1	(905) 286-4846	

Utilities										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
Ms.	Carole	Goossens		Bell Canada	20 Hunter Street, W. Flr. 6, P.O. Box 2340	Hamilton	ON	L8N 3H2	1-905-577-6137	
Mr.	Peter	German	Manager of Engineering	Burlington Hydro Incorporated	1340 Brant Street	Burlington	ON	L7R 3Z7		905-332-2254
Mr.	Paul	Kerry	Area Manager	Canadian Pacific Railway	1290 Central Parkway West, Suite 800	Mississauga	ON	L5C 4R3		905-803-3300
Mr.	Dave A.	Reynolds	Manager, Engineering and Environmental Services	CN Rail	1 Administration Road, PO Box 1000	Concord	ON	L4K 1B10	(416) 217-2466	(416) 603-8852
Ms.	Lynanne	Cane	Planning Coordinator	Cogeco Cable Solutions	695 Lawrence Road	Hamilton	ON	L8K 6P1		
Mr.	Paul	Kerry	Area Manager	CP Rail	1290 Central Parkway West, Suite 800	Mississauga	ON		905-669-3373	
Mr.	Michael S.	Wolczyk	Manager Of Marketing And Planning	GO Transit	Suite 600 20 Bay Street	Toronto	ON	M5J 2W3		
Ms.	Lisa	Seller	Chair	GreenTrans	2078 Salvator Blvd	Oakville	ON	L6L 1N1		
Mr.	Dan	Steele	Director of Engineering	Oakville Hydro - Electrical Services Division	861 Redwood Square P.O. Box 1900	Oakville	ON	L6J 5E3	(905) 825-9400	(905) 825-4474
Mr.	Ken	Dymock	General Manager, Distribution	Petro Canada	3275 Rebecca St.	Oakville	ON	L6L 6N5	(905) 847-4154	(905) 469-3915
Mr.	Darryl	Dimitroff	Team Manager	Rogers Cable Systems - Outside Plant Engineering	3573 Wolfdale Rd	Mississauga	ON	L5C 3T5		
Mr.	Paul K.	Smith	Real Estate Manager	Shell Canada Products Limited	600 - 90 Sheppard Ave. E	Toronto	ON	M2N 6Y2	(416) 227-7111	(416) 227-7190
Mr.	Enzo	Greco		Union Gas	360 Strathairne Ave. N.	Hamilton	ON	L8N 3A5	(905) 548-3531	
Mr.	Barry	Cole	Director of Transit Services	Transit Services	480 Wycroft Road, P.O. Box 310	Oakville	ON	L6J 5A6	905-845-8601 ext. 3507	
Mr.	Chris	Foster	Supervisor of Transit Policy	Burlington Transit	3245 Harvester Road, Unit 11	Burlington	ON	L7N 3T7	905-335-7797	
Ms.	Donna	Shepherd	Director of Transit and Traffic	Transit and Traffic	426 Brant Street, P.O. Box 5013	Burlington	ON	L7R 3Z6	905-335-7600 ext.	905-335-7600 ext.
Mr.	Terry	Crawford	Director of Facilities & Infrastructure	Blink Communications	861 Redwood Square	Oakville	ON	L6J 5E3	905-825-7871	
Local Businesses										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
Mr./Mrs.			Business Owner/Manager	A Touch of Class Hair Salon	3420 Rebecca Street	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Big Bear Food Mart	3420 Rebecca Street	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Edward Jones	3420 Rebecca Street, Unit 22	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Everything 4 Less	3420 Rebecca Street, Unit 17	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Exec-U-Fit	3420 Rebecca Street	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Forest Grove Preschool Academy of Arts & Technology Inc.	2275 Westoak Trails Blvd.	Oakville	ON	L6M 3P7		
Mr./Mrs.			Business Owner/Manager	Funky Thai 2 Go	3420 Rebecca Street, Unit 3	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Great Lakes Dental Care	3420 Rebecca Street, Unit 8 & 9	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Great Lakes Family Chiropractic Centre	3420 Rebecca Street, Unit 16	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Great Lakes Optometry	3420 Rebecca Street, Unit 2	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Healthy Balance Therapeutics	3420 Rebecca Street, Unit 10	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	House of Wings	3420 Rebecca Street	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Late Bloom Florist and Gift Boutique	3420 Rebecca Street, Unit 23	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Mr. Sub	3420 Rebecca Street, Unit 4	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Spotless Drycleaners	3420 Rebecca Street	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	Sweet Smoke Barbeque and Grill	3420 Rebecca Street, Unit 1	Oakville	ON	L6L 6W2		
Mr./Mrs.			Business Owner/Manager	The Co-operators	3420 Rebecca Street, Unit 24	Oakville	ON	L6L 6W2		
People Requested to be Added										
Title	FirstName	LastName	JobTitle	Organization	Address	City	Province	Postal Code	Phone	Fax
Mr.	Chris	Duff		Lakeshore Woods Resident Association	237 Duskywing Way	Oakville	ON	L6L 6X5		



April 26, 2012

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-0267
Email: teodor.kochmar@halton.ca

Dear NAME
ORGANIZATION
ADDRESS

RE: Notice of Study Completion – Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, Our File: PR-2581A

Halton Region has completed the Class Environmental Assessment (Class EA) Study for the required expansion of the existing Burloak Water Purification Plant, located in the Town of Oakville. The Class EA Study has been undertaken in accordance with the planning process set out in the Municipal Class Environmental Assessment document (October 2000, as amended 2007 & 2011) for Schedule C projects.

As part of the Class EA Study, three separate public meetings were held on April 19, April 28, and November 30, 2011. The first meeting was held exclusively for nearby homeowners and local area business owners to meet members of the Class EA team, learn more about the project, tour the existing plant, and provide feedback on the information presented. The last two meetings were public information centres held at separate stages of the Class EA Study to allow review agencies and members of the general public to learn more about the status of the project and obtain feedback on the information presented.

An Environmental Study Report, documenting the planning and decision making process followed during the Class EA Study, has been prepared. In accordance with the requirements of the Municipal Class EA process, the Environmental Study Report will be placed on the public record for a 30-day review period.

This letter is to notify your agency of the completion of this Class EA Study and advise the locations where the Environmental Study Report will be available for public review. The Environmental Study Report will be available for review starting May 2, 2012 until June 4, 2012. A copy of the Notice of Study Completion has been attached to this letter for your convenience.

If concerns arise during the prescribed Review Period that cannot be resolved through discussions with Halton Region, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act. This request (commonly referred to as a Part II Order) must be received within the above prescribed review period by the Minister, at the address listed below and copied to Mr. Teodor Kochmar at Halton Region. If no request is received on or before June 4, 2012, Halton Region may proceed with detailed design and construction of the project, as outlined in the Environmental Study Report.

Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page.

The Regional Municipality of Halton



Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in black ink, appearing to read "Teodor Kochmar".

Teodor Kochmar, P.Eng. PMP
Project Manager, Water Design and Construction
Halton Region
Telephone: 905-825-6000 ext. 7637
Email: Teodor.kochmar@halton.ca

A handwritten signature in blue ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.
Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

cc: Gary Carr, Halton Regional Chair
Tom Adams, Regional Councillor & Chair of the Planning & Public Works Committee
Paul Sharman, Regional Councillor, City of Burlington, Ward 5
Patrick Moyle, CAO, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region

Robert Burton, Mayor, Town of Oakville
Allan Johnston, Regional Councillor, Town of Oakville, Ward 1
Ralph Robinson, Town Councillor Town of Oakville, Ward 1
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region

NOTICE OF STUDY COMPLETION

Municipal Class Environmental Assessment for Phase 2 Expansion of the Burloak Water Purification Plant, Town of Oakville

Background

In February 2011, Halton Region initiated a Class Environmental Assessment (Class EA) Study to identify the preferred treatment design concept to increase the capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

Problem Statement

The next expansion of the Burloak WPP from 55 ML/day to 165 ML/day is required to provide additional water supply capacity for projected population and employment growth identified in the Best Planning Estimates and corresponding water demand projections as set out in the Sustainable Halton Water and Wastewater Master Plan, recently updated by the Region in 2011. The expansion of the Burloak WPP also provides the opportunity to design the project to achieve the Region's municipal service delivery objectives and further develop how the site is integrated with its neighbours and surrounding community.

The Process

The Class EA Study has been completed according to the requirements of a Schedule C project of the Municipal Class Environmental Assessment document (Municipal Engineers Association, October 2000 as amended in 2007 & 2011). The Class EA Study included:

- Public and agency consultation;
- Evaluation of alternative treatment design concepts for the expansion;
- Assessment of technical, socio-cultural, natural environmental and economic environment;
- Assessment of the impacts of the proposed work; and,
- Identification of measures to mitigate such impacts, including potential impacts to the residential neighbourhood in the vicinity of the plant site.



The preferred treatment design concept for the expansion of the Burloak WPP involves membranes for particulate removal and pathogen removal, ozone for taste and odour control and pathogen control (during taste and odour season), and UV disinfection for pathogen control. Chlorine will be used for both zebra mussel control in the plant inlet and disinfection of the plant outlet into the distribution system. The plant residual flows will be treated by a combination of equalization and plate settlers clarification/thickening processes.

The preferred treatment design concept was identified to best optimize the plant's existing infrastructure, its operations and maintenance, as it replicates for the most part, the existing treatment processes. In addition, the preferred treatment design concept was found to be sustainable and economical.

Public Comments Invited

An Environmental Study Report documenting the planning and decision making process followed during the Class EA Study has been prepared. By this Notice, the Environmental Study Report is being placed on the public record and will be available for review from May 2, 2012 until June 4, 2012 at the following locations:

Clerk's Office Town of Milton 43 Brown Street Milton, Ontario Tel: 905-878-7211	Clerk's Department Town of Oakville 1225 Trafalgar Road Oakville, Ontario Tel: 905-845-6601	The Regional Municipality of Halton Citizen's Reference Library 1151 Bronte Road Oakville, Ontario Tel: 905-825-6000
Clerk's Office Town of Halton Hills 1 Halton Hills Drive Halton Hills (Georgetown), Ontario Tel: 905-873-2600	Clerk's Department City of Burlington 426 Brant Street Burlington, Ontario Tel: 905-335-7777	

Interested persons should provide written comments regarding the project within the prescribed review period to either of the following individuals:

Teodor Kochmar, P.Eng., PMP
Project Manager
Halton Region
Telephone: 905-825-6000 ext. 7637
Fax: 905-825-0267
Teodor.Kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.Koc@aecom.com

If concerns arise during the review period that cannot be resolved through discussions with the Halton Region, a person or party may request that the Minister of Environment make an order for the project to comply with Part II of the Environmental Assessment Act. This request (commonly referred to as a Part II Order) must be received within the above prescribed review period by the Minister, at the address listed below and copied to Mr. Teodor Kochmar at Halton Region. If no request is received on or before June 4, 2012, Halton Region may proceed with detailed design and construction of the project, as outlined in the Environmental Study Report.

Minister of the Environment
135 St. Clair Avenue West, 12th Floor
Toronto, ON M4V 1P5



April 25, 2012

Ms. Jane I. DeVito
Environmental Planner
Halton Region Conservation Authority
2596 Britannia Road West
Burlington, Ontario
L7P 0G3

Dear Ms. DeVito:

Project No: Halton Region File: PR-2841A

AECOM File: 60114069 (2861-147-00)

CH File: MPR 568

**Regarding: Burloak Water Purification Plant – Phase 2 Expansion
Regional Municipality of Halton
Municipal Class Environmental Assessment Study – Schedule C
Response to Draft Environmental Study Report – Technical Support Section
Comments**

We would like to take this opportunity to thank you again for reviewing and providing comments on the Draft Environmental Study Report (ESR) prepared in association with the Burloak Water Purification Plant (WPP) Phase 2 expansion.

This letter summarizes how each of your comments, as per your letter dated April 16, 2012, have been addressed in the final ESR or will be addressed during the detailed design stages of this project. We have used the same sub-headings and numbering used in your letter for ease of reference.

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

ENGINEERING

1. Acknowledged. No further action required.

TERRESTRIAL ECOLOGY

Halton Region Letter, dated February 29, 2012

2. Acknowledged. No further action required.

Sheldon Creek Assessment

3. Appendix C of the Sheldon Creek Assessment report has been updated to include all species mentioned in the text. A final Monitoring Program will be developed in consultation with Conservation Halton and the Town of Oakville during the next phases of this project.

Draft Environmental Study Report

Section 4.3 Natural Environment:

4. Acknowledged. No further action required. **Aquatic Ecology**

AQUATIC ECOLOGY

Draft Environmental Study Report

Section 4.3.2.2 Fish Habitat:

5. References made in the ESR regarding Sheldon Creek or East Sheldon Creek being a warm water system or a low sensitivity watercourse have been removed from the report. The supporting technical memoranda appended to the ESR have been updated to reflect these changes, appropriately.

Section 14.3 Additional Practices/Components:

6. Chlorination for zebra mussel control is interlocked with the operation of the pumps drawing water from Lake Ontario. Thus, chlorine at the intake location is only added when the pumps are drawing water from the lake into the plant. This ensures that the chlorine is drawn into the intake pipe and prevents the dispersion of chlorine into the lake. A new Section 14.3.3 – Chlorination for Zebra Mussel Control has been added to the ESR to provide a description of this process.

Figure 27 and Section 15.7.1 Sheldon Creek:

7. Although the details regarding the discharge structure are planned to be developed during the detailed design stages of this project, we do not envision that the use of angular stone in the design is required. Vegetative restoration will form part of the details with due consideration to

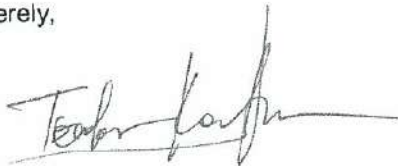
native species bioengineering to stabilize slopes and banks. This information will be submitted to CH for review during the detailed design stages.

Appendix D: Sheldon Creek – East Branch Assessment Report:

8. The report has been updated accordingly.

The ESR will be finalized and will be placed shortly on the public record for public review. A copy of the Notice of Study Completion will be mailed to your office advising of the dates and locations where the ESR will be available for public review.

Sincerely,

A handwritten signature in black ink, appearing to read 'Teodor Kochmar', with a long horizontal flourish extending to the right.

Teodor Kochmar, P.Eng., PMP
Project Manager
Public Works, Water Design & Construction
Regional Municipality of Halton
teodor.kochmar@halton.ca

TK/

cc: Philip Kelly, Town of Oakville
George Trenkler, Town of Oakville
Oya Koc, AECOM
Sandra Rodriguez, AECOM
Wolfgang Wolter, AECOM
Jacqueline Weston, Halton Region



2596 Britannia Road West
Burlington ON L7P 0G3
905.336.1158 Fax 905.336.7014
conservationhalton.ca

April 16, 2012

BY MAIL AND EMAIL

Mr. Teodor Kochmar
Halton Region, Public Works & Engineering
1151 Bronte Road
Oakville ON L6M 3L1

&

Ms Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9

Dear Ms Koc & Mr. Kochmar:

**Re: Burloak Water Purification Plant Phase 2 & 3 Expansion
Class Environmental Assessment Study-Draft Environmental Study Report
Region of Halton/Town of Oakville
Project No.: 060114069 (CH File: MPR 568)**

Staff of Conservation Halton have reviewed the following documents and offer the following comments:

- Halton Region Letter to Conservation Halton and the Town of Oakville, regarding '*Burloak Water Purification Plant Phase 2 & 3 Expansion Class Environmental Assessment Study (HR File: PR2581A, AECOM File: 60114069, CH File: MPR 568)*', dated February 29, 2012;
- '*Region of Halton Sheldon Creek, East Branch- Assessment Burloak Water Purification Plant Expansion (Phase 2) Environmental Assessment Support*', as prepared by AECOM and dated February 2011; and
- '*Regional Municipality of Halton Draft Burloak Water Purification Plant Phase 2 Expansion Environmental Study Report*', as prepared by AECOM and dated March 13, 2012.

ENGINEERING

1. Staff find that the above-noted responses and reports, including the Draft Environmental Study Report, have addressed all Engineering comments.

TERRESTRIAL ECOLOGY

Halton Region Letter, dated February 29, 2012

2. All items raised in our February 3, 2012 letter have been addressed, notwithstanding the comments regarding the monitoring program.

Sheldon Creek Assessment

3. The vegetation species list in Appendix C does not include all species mentioned in the text (e.g. sugar maple, red oak, American beech). This information would be useful in selecting appropriate species for monitoring at Burloak Woods.

Draft Environmental Study Report

Section 4.3 Natural Environment:

4. The background characterization of Bronte Woods does not capture the full significance of this feature (e.g. Significant Woodland, Significant Wildlife Habitat, species at risk habitat). Notwithstanding these omissions, staff are of the opinion that the proposed improvements to the water purification plant will not further degrade the functions of Bronte Woods given that construction will be confined to already-developed areas of the site.

AQUATIC ECOLOGY

Draft Environmental Study Report

Section 4.3.2.2 Fish Habitat:

5. Conservation Halton staff agree that the proposal is a low risk to fish and fish habitat, however staff do not support the characterization of Sheldon Creek as a low sensitivity warmwater system as indicated in Appendix E and Section 4.3.2.2 Fish Habitat. Rather Conservation Halton staff are of the opinion that Sheldon Creek has a cool water thermal regime.

Some of the descriptors used in "Appendix E Sheldon Creek – East Branch Fish Habitat Conditions Technical Memorandum" regarding the East Branch of Sheldon Creek include the following:

- Meandering channel with cobble, gravel and sand
- Riffle/pool sequences
- Large woody debris

Figure 27 and Section 15.7.1 Sheldon Creek:

7. Would it be possible for the rock dispersion bed/flow dispersion structure to incorporate vegetation that would help provide habitat and thermal pollution mitigation?

It is requested that no angular rock be used in the construction of the rock dispersion structure.

Please ensure this structure is designed in a way that rock that is used to construct the structure is not moved into the creek by water flow energy emanating from the water purification plant or from the creek.

It is requested that the rock used to construct the rock dispersion structure be as small as possible because if the rock does end up migrating into the creek, larger rocks could create or exacerbate bank or bed erosion problems in the creek.

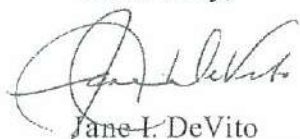
Appendix D: Sheldon Creek – East Branch Assessment Report:

8. The last paragraph on page 20 of this report indicates that the “poor” rating of the benthic community is an indicator of fish habitat. Benthic macroinvertebrates are responsive to changes in water and sediment quality (Mackie, 2001). Further, recent thermal regime data collected in Sheldon Creek indicates the watercourse has a cool water thermal regime. Additionally, the majority of the fish species presented in the untitled table on page 20 are not known to be “warmwater fish species”. As such, please remove the last sentence from the last paragraph on page 20 of Appendix D.

Mackie, G. L. 2001. Applied Aquatic Ecosystem Concepts. Dubuque: Kendall-Hunt Publishing, 744 p.

We trust the above is of assistance. If you require additional information please contact the undersigned at extension 235.

Yours truly,



Jane L. DeVito
Environmental Planner
JD/

cc: Philip Kelly, Town of Oakville, email
George Trenkler, Town of Oakville, email
Sandra Rodriguez, Halton Region, email
Wolfgang Wolter, AECOM, email

- a. Large fallen trees
- b. Overhanging trees
- c. Detritus
- d. Overhanging banks
- e. Watercress

Given the physical and biological attributes observed in the channel, Conservation Halton would not accept a low sensitivity classification of East Sheldon Creek.

Appendix E has provided a classification of the sensitivity of the aquatic habitat in East Sheldon Creek using the Risk Management Framework developed by DFO. The Risk Management Framework is a communication tool for explaining the risk of development proposals as they relate to fish and fish habitat. It is not a stream sensitivity classification tool. If the consultant is looking to characterize the sensitivity of East Sheldon creek, it is suggested they refer to the Ontario Stream Assessment Protocol which is a tool developed by the Ontario Ministry of Natural Resources to characterize the aquatic habitat in wadeable flowing water systems. As such, the classification provided in Appendix E is not applicable to East Sheldon Creek. Due to the reference to a tool developed for another purpose, it is requested that Table 1: Rationale for Determining the Sensitivity of Fish and Fish Habitat in East Branch Sheldon Creek be removed from the document.

To accurately characterize East Sheldon Creek as a watercourse, additional fish records in Conservation Halton's data holdings would need to be taken into account (e.g. Common White Sucker, Blacknose Dace, and Fathead Minnow) and additional community surveys or spawning surveys would need to be undertaken. Recently collected surface water temperature data collected in Sheldon Creek during the summer of 2010 indicates that Sheldon Creek has a cool-warm water thermal regime – with this analysis being undertaken using nomograms developed by Cindy Chu. Please note that Rainbow Trout have been observed in Sheldon Creek in the spring during the time that they typically spawn.

It is requested that any references made in the ESR regarding Sheldon Creek or East Sheldon Creek being a warm water system or a low sensitivity watercourse be removed from the document.

Section 14.3 Additional Practices/Components:

6. Further information as to how and where the chlorination at the intake location for zebra mussels is being undertaken. What risks are there (if any) that chlorination could result in fish kills?

Rodriguez, Sandra

From: Thompson, Paula (MNR) [Paula.L.Thompson@ontario.ca]
Sent: Friday, April 20, 2012 3:38 PM
To: Rodriguez, Sandra
Subject: Halton Water Purification Plant

Hello Sandra,

Further to our telephone conversation yesterday I understand that Halton Region is undertaking a Class Environmental Assessment in order to expand its water purification plant from 55 million litres per day to 165 million litres per day (increase of 110 million litres per day).

I understand the MOE has suggested that the Region consider the undertaking in the context of the Great Lakes Charter (1985) and the Great Lakes - St. Lawrence River Basin Sustainable Water Resources Agreement (2005).

As I explained on the phone the Charter and the Agreement are agreements that Ontario signed with Quebec and the eight U.S. Great Lakes states to protect the shared waters of the Great Lakes Basin. Through the agreements the parties agreed to consult one another on major new or increased consumptive uses or diversions/transfers of basin water (i.e. over 19 million litres per day). The 2005 Agreement also banned water diversions and introduced new environmental standards that must be met for defined exceptions to the ban and consumptive water uses.

So, what does this mean for Halton?

Halton's undertaking would be considered an increased consumptive use under the Agreements. Consumptive use is defined in the agreements as the portion of a water withdrawal that is lost or otherwise not returned due to evaporation, incorporation into products or other processes.

Consumptive use coefficients have been developed to estimate the consumptive use portion of a water taking. For the municipal sector the consumptive loss is estimated to be between 10 - 15% of the withdrawal. If a proposal approaches the 19 ML/d threshold using the coefficient then we ask that further analysis of consumptive use be undertaken. For Halton applying a 15% municipal sector consumptive use coefficient to the proposed 110 ML/d increase yields an estimated consumptive use of 16.5 ML/d.

The proposed undertaking is therefore not expected to exceed the threshold requiring consultation with the other Great Lakes jurisdictions under the Great Lakes Charter/Agreement.

It is suggested that MNR be consulted further before MOE issuance of a permit to take water in the event that any modifications are made to the increased water taking volume being sought or in the event that the above information is not accurate.

Thank you,

Paula

Paula Thompson
Senior Policy Advisor
Ministry of Natural Resources
(705) 755-1218
fax: (705) 755-1267
email: Paula.L.Thompson@ontario.ca



April 25, 2012

Mr. Daniel Delaquis
Environmental Resource Planner and EA Coordinator
Air, Pesticides and Environmental Planning
Ministry of the Environment, Central Region
Technical Support Section
5775 Yonge Street, 8th Floor
North York, Ontario
M2M 4J1

Dear Mr. Delaquis:

Project No: Halton Region File: PR-2841A
AECOM File: 60114069 (2861-147-00)

Regarding: Burloak Water Purification Plant – Phase 2 Expansion
Regional Municipality of Halton
Municipal Class Environmental Assessment Study – Schedule C
Response to Draft Environmental Study Report – Technical Support Section
Comments

We would like to take this opportunity to thank you again for reviewing and providing comments on the Draft Environmental Study Report (ESR) prepared in association with the Burloak Water Purification Plant (WPP) Phase 2 expansion.

This letter summarizes how each of your comments, as per your letter dated April 13, 2012, have been addressed in the final ESR or will be addressed during the detailed design stages of this project. We have used the same sub-headings and numbering used in your letter for ease of reference.

General:

1. Specific aboriginal agencies and first nations groups consulted during our Class EA Study were noted in Section 3.1.2 of the ESR. A new Section 3.3.4 – First Nations and Aboriginal Groups was created to summarize the correspondence exchanged with these agencies and groups.

Ground and Surface Water:

2. An Amendment to Permit to Take Water has been included under Section 14.5 – Required Permits and Approvals.
3. Based on a telephone conversation with the Ministry of Natural Resources (MNR) on April 19, 2012, it has been concluded that the proposed expansion of the Burloak WPP does not trigger

The Regional Municipality of Halton

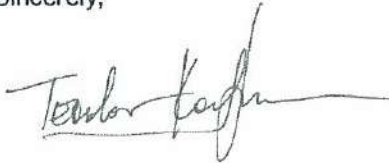
prior notice and consultation requirements under the Great Lakes Charter. From the conversation with the MNR, it was established that the consumptive use for the 110 ML/d proposed expansion was about 16.5 ML/d, based on a municipal sector water use coefficient of 15% (provided by MNR). The 16.5 ML/d calculated consumptive use is less than the 19 ML/d threshold, which would require consultation with the other Great Lakes jurisdictions under the Great Lakes Charter/Agreement. It was also agreed, that additional consultation with MNR will be carried out before MOE issuance of an amended Permit to Take Water (PTTW), to confirm the consumptive use and the consultation requirements. A new Section 3.3.2 – Ontario Ministry of Natural Resources has been added to the ESR to summarize the conclusions of the communication with MNR. Also, Section 14.5 – Required Permits and Approvals of the ESR has been revised to include the consultation requirement with MNR.

4. All existing permits and approvals regarding the Burloak Water Purification Plant have been included in Appendix F of the ESR.
5. Any discharge of chlorinated water into the natural environment (Sheldon Creek) will be de-chlorinated with sodium bisulphite before any water is discharged into the environment. A new Section 13.2.2 – Chlorine Residual describing this has been added to the ESR. As noted in the ESR, discharge parameters, sample frequency and locations will be determined in consultation with the MOE during the amendment process of the Drinking Water License.
6. The existing treatment process at the Burloak WPP allows for provisional coagulation. Although, the use of an aluminum based coagulant has not been needed at the plant due to the consistently good raw water quality experienced since the plant's commission, the proposed water treatment process for the expansion will continue to assume the provisional addition of a coagulant. A new Section 13.2.3 – Aluminum Residual describing this has been added to the ESR. As noted in the ESR, discharge parameters, sample frequency and locations will be determined in consultation with the MOE during the amendment process of the Municipal Drinking Water License.
7. As noted in the ESR, discharge parameters, sample frequency and locations will be determined in consultation with the MOE during the amendment process of the existing Municipal Drinking Water License.
8. A new Section 13.3.3 – Expected Discharge Flows has been added to the ESR providing explanation on how the discharge flows have been calculated.
9. A complete monitoring program will be established in consultation with Conservation Halton and the Town of Oakville during detailed design to ensure that proper monitoring devices, monitoring parameters, sample frequencies, and locations are used to establish baseflow conditions and monitor flows, channel integrity and aquatic and terrestrial features in the vicinity of the discharge location. A preliminary monitoring program has been submitted to Conservation Halton and the Town of Oakville for review. This program will be refined and confirmed during the next stages of this project.
10. Consultation with Conservation Halton and the Town of Oakville will continue to take place during the next phase of this Class EA Study.

11. Construction of the existing Burloak WPP resulted in very little groundwater from excavation, which was managed by pumping the water into a low lying area within the plant site, where the water percolated through the soil. The conditions encountered during construction were as anticipated from the results of a preliminary geotechnical investigation. With this in consideration, as well as the additional information available from the 2005 geotechnical investigation, excavation dewatering is expected to be required from precipitation and ground water entering the excavation and/or entering the granular fill around the existing facilities. It is anticipated that discharge be directed to a temporary discharge siltation pond to be sized to provide sufficient detention time before the water percolates through the soil. The siltation pond would be located within the plant site and maintained during construction by removing silt build-up from time to time to keep its functionality. The anticipated groundwater to be discharged, as well as the discharge method, will be confirmed during the detailed geotechnical investigation, which will be completed during detailed design. Section 15.9 – Geotechnical Considerations of the ESR has been updated to reflect the recommendation to use a temporary discharge siltation pond to control the excavation dewatering.

The ESR will be finalized and will be placed shortly on the public record for public review. A copy of the Notice of Study Completion will be mailed to your office advising of the dates and locations where the ESR will be available for public review. In addition, a copy of the final ESR will also be mailed to your office for your use and records.

Sincerely,



Teodor Kochmar, P.Eng., PMP
Project Manager
Public Works, Water Design & Construction
Regional Municipality of Halton
teodor.kochmar@halton.ca

TK/

cc: Paula Thompson, Senior Policy Advisor, Ministry of Natural Resources
(Paula.L.Thompson@ontario.ca)
T. Dufresne, Halton-Peel District Office, Central Region, EA File
(Tina.Dufresne@ontario.ca)
Oya Koc, AECOM
Sandra Rodriguez, AECOM
Jacqueline Weston, Halton Region

Ministry of the Environment

Central Region
Technical Support Section

5775 Yonge Street, 8th Floor
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Tel.: (416) 326-6700
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Ministère de l'Environnement

Région du Centre
Section d'appui technique

5775, rue Yonge, 8^{ème} étage
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Tél. : (416) 326-6700
Télééc. : (416) 325-6347



April 13, 2012

Teodor Kochmar
Regional Municipality of Halton
1151 Bronte Road
Oakville, ON L6M 3L1

**RE: Burloak Water Purification Plant – Phase 2 Expansion
Regional Municipality of Halton
Municipal Class Environmental Assessment – Schedule C
Response to the Draft Environmental Study Report - Technical Support Section Comments**

Dear Mr. Kochmar:

The Ministry has received your Draft Environmental Study Report (ESR) for the above noted environmental assessment and provide the following comments:

General:

1. Section 3.1.2 of the Draft ESR makes reference to "Aboriginal groups," however no where else within the text of the Draft ESR is it documented which first nation groups were contacted, and what correspondence took place. We request that this information appear within the text of the Final ESR rather than solely within the correspondence appendices, in order to document that proper first nation consultation was completed.

Ground and Surface Water:

2. The proposed Phase 2 expansion to a rated capacity of 165 MLD would require an increase in the permitted taking rates. An amendment to the PTTW for the Plant would be required and this should be noted in the report.
3. The proponent should identify whether the proposed expansion would trigger prior notice and consultation requirements under the Great Lakes Charter prior to an application to a Permit to Take Water. Consultation with the Ministry of Natural Resource's Lands and Waters Branch (administrator of the Charter) may be required.
4. Please include a copy of relevant approvals such as the Drinking Water License and Permit to Take Water for the Burloak Water Purification Plant in the Appendix of the ESR for reference.
5. Effluent to Sheldon Creek must also meet the Ministry requirement of non-detect for total chlorine residual. The ESR should indicate whether the residual water may contain chlorine and if an effluent limit should be included in the approval.
6. Discussion should be provided on whether or not aluminium is proposed to remain in the approval as an environmental discharge parameter and rationale for it.
7. Proposed effluent monitoring should be established, including parameters, frequency etc..
8. Proposed discharge flows are shown in Table 4.4.1 of Appendix D (100 L/s and 200 L/s average and peak flows respectively). The report should clarify how these flow rates were estimated.

9. Baseflow values for the creek should be confirmed through field measurements during low flow conditions prior to the expansion in order to refine future assessments.
10. Please consult with Conservation Halton prior to final design to ensure all water quantity and erosion issues are addressed and proposed controls to manage peak discharge values, including attenuation of flows from the plant and attenuation of the discharge at the outlet are acceptable and adequate for the proposed Phase 2 expansion.
11. The Draft ESR indicates that no Permit To Take Water (PTTW) is required during construction of the proposed undertaking. However, the construction will occur on shale formations, which contain saline groundwater with high concentrations of heavy metals. We recommend that the final ESR address the discharge, monitoring, potential treatment and mitigation plan for the extracted groundwater during construction.

Thank you for the opportunity to comment on this project. Should you or any members of your project team have any questions, please feel free to contact me at 416-326-4839.

Yours truly,

Original signed by:

Dan Delaquis
Environmental Resource Planner and EA Coordinator
Air, Pesticides and Environmental Planning

- c. Oya Koc, AECOM
T. Dufresne, Halton-Peel District Office
Central Region EA File
A & P File



Public Works
Water Services
1151 Bronte Road
Oakville, ON L6M 3L1
Fax: (905) 825-8822

February 29, 2012

Jane De Vito, B.E.S., B.Ed.
Environmental Planner
Conservation Halton
2596 Britannia Road West
Burlington ON L7P 0G3

&

Philip Kelly, M.Sc., P.Eng.
Manager, Development Engineering
Town of Oakville
1225 Trafalgar Road
Oakville ON L6H 0H3

Dear Jane and Philip:

**RE: Burloak Water Purification Plant Phase 2 & 3 Expansion
Class Environmental Assessment Study
(HR File: PR2581A, AECOM File: 60114069, CH File: MPR 568)**

Thank you for your review and comments of the Sheldon Creek East Branch Assessment Report dated December 2011 in relation to the above referenced project.

Based on previous discussions and comments received, it is the Region's understanding that for Burloak WPP Phase 2/3 Expansion (165 ML/d capacity) Conservation Halton is prepared to consider an outlet point from the Burloak WPP in the East Sheldon Creek, subject to review and approval of necessary flow attenuation/mitigation plans. As such, this discharge option is being carried forward in the Class EA study and will be re-evaluated during detailed design stage.

Also, it is the Region's understanding that for Burloak WPP future expansions a similar application process will be carried out to obtain the necessary approvals and permits.

Please find herewith our response to your comments:

Conservation Halton Letter, February 03, 2012:

1. The report examines a range of flows that have been determined to occupy the majority of the defined channel (bankfull flow/ 2-year flow equivalent) this accounts for flows which are considerably more than base flows. In the event of bank overtopping, the rate of shear change decreases due to pressure relief.
2. A flow attenuation/mitigation plan and a monitoring plan, as noted in CH's letter, are required to be prepared at the early stages of detailed design for implementation, pre- and post-construction. The flow attenuation/mitigation plan will be developed and forwarded

The Regional Municipality of Halton

to CH and the Town of Oakville for review and approval early in the detailed design stage. The monitoring plan has been developed and is enclosed with this letter. The Region requests that CH (and the Town of Oakville) kindly review and provide comments and/or approval to the proposed monitoring plan, as the Region would like to commence pre-construction (baseline) monitoring as soon as possible.

3. A detailed vegetative assessment will be undertaken during the detailed design stages (refer to the enclosed monitoring plan).
4. Restoration details will be as per CH guidelines.
5. It is anticipated that discharging downstream of Burloak Woods would not be feasible. As per CH's comment, monitoring of the area will be undertaken as part of the monitoring plan and submitted for review (refer to the enclosed monitoring plan for details).
6. The Aquatic section of the report has been updated. We note that a separate Aquatic Memorandum by AECOM has been submitted to CH containing additional detail. (Sheldon Creek – East Branch Fish Habitat Conditions, January 26, 2012).

Town of Oakville Letter, (received February 16, 2012):

1. No comments
2. Details of the outflow/flow dispersion structure will be forwarded to the Town and CH for review and approval as part of the Site Application process.
3. The monitoring plan, as noted in the Town of Oakville's letter, is required to be prepared at the early stages of detailed design for implementation pre- and post-construction. As noted above, the monitoring plan is enclosed with this letter. The Region requests that the Town of Oakville (and CH) kindly review and provide comments and/or approval to the proposed monitoring plan, as the Region would like to commence pre-construction (baseline) monitoring as soon as possible.
4. The updated report has been stamped and signed.
5. Additional reporting will accompany further expansion initiatives.

Please note the updated Sheldon Creek, East Branch Assessment Report, has been mailed to Conservation Halton (attn: Jane De Vito) and Town of Oakville (attn: Philip Kelly).

We appreciate your input on the project at this stage and will advise you of developments as they occur. If you have any questions, please contact the undersigned.

Sincerely,



Teodor Kochmar, P.Eng., PMP
Project Manager
ext. 7637
Teodor.Kochmar@halton.ca

Cc: George Trenkler, Town of Oakville
Oya Koc, AECOM
Wolfgang Wolter, AECOM
Sandra Rodriguez, AECOM
Jacqueline Weston, Halton Region

February 24, 2012

Teodor Kochmar, P.Eng., PMP
Halton Region
Bronte Road, Oakville Ontario
(905) 825-6000 x 7637

Dear Teodor

Project No: 60114069

Regarding: Burloak Water Purification Plant Expansion – Work plan and fee estimate for monitoring program on Sheldon Creek

In response to the monitoring recommendations provided in the recently submitted report regarding the Burloak Water Purification Plant expansion, and in accordance with the requirements as conveyed both by Conservation Halton and the Town of Oakville, we provide herewith an outline of services and tasks.

The goal of the monitoring is to provide pre, during and post-construction monitoring to document information on the impact of the water purification plant expansion on the creek system as it relates to supporting the recommendations of the report "Sheldon Creek, East Branch – Assessment" December 2011.

Given the timing of the proposed project phases, we have outlined the course of action on the basis that monitoring activities (to prepare a 'baseline' data set) would commence in early spring of this year. The post-construction monitoring will occur in subsequent years in accordance with the implementation and operation schedules planned for the plant expansion.

Both HRCA and the Town have asked that the monitoring plan be reviewed prior to the permit for construction (detailed design stage). The plan is based on section 8.3 of the report as well as comments from HRCA and are summarized below:

- Monitoring of channel flows
- Channel integrity
- Monitoring devices to be active for a minimum of 9 months (base line) and for 3 years post construction
- Terrestrial monitoring of sugar maple forest

The proposed monitoring program, in recognition of achieving the objectives is as described below:

Surface Water

AECOM proposes to install three flow stations within Sheldon Creek.; one upstream of the proposed outlet and one downstream of the proposed outlet and one near the confluence of the east banks with the main branch. These stations will include continuous depth loggers collecting data at 15 minute intervals to capture changes in flow over time. Rating curves will be developed by taking spot flow measurements over a range of flows on up to 5 occasions each year.

Temperature loggers will be installed at each location and monitored in conjunction with flow monitors.

Channel Integrity –Geomorphology

Erosion pins will be installed at critical locations along the creek downstream of the outlet location to establish impacts. Up to 3 pin locations will be installed to cover the range of soil types along the creek. These pins will be checked on each site visit to establish rates of erosion and/or sedimentation at pin locations. (5 times per year)

Terrestrial (as per no. 3 of p. 2 HRCA comments)

A baseline assessment of the vegetative resources with specific focus on Burloak Woods would be documented. An annual condition survey of the sugar maple forest will be completed to assess the impact of increased flows.

- **Collection of Baseline Data (Preconstruction)** – Prior to construction, randomly selected trees above 9cm dbh located along Sheldon Creek will be permanently tagged, numbered in their size (dbh) and health index (McLaughlin 1992) recorded. General observations will also be made with regard to overall health of the woodlot noting signs of stress, disease, and pests. This data will form the basis for comparing data from subsequent monitoring years.
- **Post Construction Monitoring (Year 1, 2 & 3) Data** – The post-construction monitoring activities should mimic those outlined in the Baseline Data Collection.
- **Monitoring Frequency and Duration** - Annual monitoring should take place, early summer and fall (April to early June, mid- August to late September). This is to ensure all stages of growth are observed.
- **Reporting** – Over the monitoring period, four monitoring reports will be completed to document the baseline conditions and the subsequent monitoring periods. Tree assessment field sheets will be appended within the report.

Aquatic (not requested as part of the comments, but provided as provisional)

A component of this monitoring program may be required in order to establish aquatic baseline conditions in the east branch of Sheldon Creek, prior to any new discharge from the Burloak WTP. Exact sampling locations would be determined during the baseline survey taking into account the outfall location as well as any existing point source inputs. This will ensure that conditions are

monitored on the basis of the Burloak WTP outfall only. Where possible, monitoring locations will be the same for each of the parameters.

Data will be documented and analysed after each sampling session to highlight any potential impacts at the earliest possible stage. However, one monitoring report will be produced at the end of each year that will consider all the results for that year. This report will be finalised by the end of November and will be assessed alongside other monitoring programs such as the hydraulic flow monitoring. This will allow us to take an adaptive management approach and modify the monitoring program and parameters that are assessed, if necessary.

Monitoring Parameters proposed:

- Sediment loading.
 - Turbidity will be measured in the water column by a turbidity meter at three locations. Precise site selection will occur during Year 0 and will take into account additional point source inputs. The objective will be to sample a minimum 10m upstream of the outfall location; at the outfall discharge location, and downstream of the outfall. Turbidity measurements will be compared between the three sampling locations, with the upstream site acting as a reference site against which changes downstream will be assessed. Turbidity measurements will be taken on the same day at each location and after 72 hours of no significant rainfall. Turbidity measurements will be taken at a minimum of 5 points across a stream cross section at each location.
- Water quality
 - Water quality parameters will be recorded at three locations within the east branch of Sheldon Creek, and two locations in the main branch of Sheldon Creek – upstream and downstream of the confluence with the east branch. A portable YSI metre will be used to measure *in situ* parameters including dissolved oxygen, temperature, pH, conductivity. These measurements will be taken on the same day at each location and after 72 hours of no significant rainfall. Water quality measurements will be taken at least 5 points across a stream profile at each location.
- Fish habitat
 - Physical characteristics of the fish habitat at three locations will be mapped to ensure no significant changes over time. These locations will be upstream of the proposed outflow; at the outfall location and approximately 10m downstream. Habitat characteristics will include: depth; substrate; bank stability; riparian cover; general morphology characteristics including size of pools and riffles. Transects will be completed at each location within at least a 40m reach.
- Temperature
 - Continuous data loggers will be installed at three locations within the east branch of Sheldon Creek, and two locations in the main branch of Sheldon Creek – upstream and downstream of the confluence with the east branch. One ambient air temperature logger will be installed at one location within the east branch. Temperature loggers will be downloaded during the spring, summer and fall monitoring events for water quality and turbidity.

Reporting

An annual report outlining monitoring results and any trends across years will be provided to the Region. It is our intent to compare the monitoring results to the information used in the report "Sheldon Creek, East Branch – Assessment" December 2011. and provide update/support to the recommendations/anticipated conditions. In addition, the results of the monitoring will allow a more detailed view of the likely impacts to Sheldon creek, and provide an indication on whether or not mitigation would be required.

Reports would be provided for the following phases:

1. Baseline pre-construction conditions (Monitoring Report)
2. Post Construction (Monitoring Report with 3 updates, 1 per year)
3. Update of "Sheldon Creek, East Branch – Assessment" December 2011. using monitoring results

It is expected that the tasks described above will fulfill the requested work. If you have any questions regarding the contents of this letter, please contact the undersigned.

Sincerely,
AECOM Canada Ltd.

Wolfgang Wolter,
Regional Market Sector Lead - Water Resources
wolfgang.wolter@aecom.com

WW:nsu



2596 Britannia Road West
Burlington ON L7P 0G3
905.336.1158 Fax 905.336.7014
conservationhalton.ca

February 3, 2012

BY MAIL AND EMAIL

Mr. Teodor Kochmar
Halton Region, Public Works & Engineering
1151 Bronte Road
Oakville ON L6M 3L1

&

Ms Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9

Dear Ms Koc & Mr. Kochmar:

**Re: Burloak Water Purification Plant Phase 2 & 3 Expansion
Class Environmental Assessment Study
Region of Halton/Town of Oakville
Project No.: 060114069 (CH File: MPR 568)**

Staff of Conservation Halton provide the following comments based on the review of the document noted below:

- *'Region of Halton, Sheldon Creek, East Branch-Assessment, Burloak Water Purification Plant Expansion (Phase 2). Environmental Assessment Report', as prepared by AECOM, dated December 2011.*

Engineering Comments

1. Staff note that, while the submission demonstrates that, after the Phase 2 and 3 plant expansion, the addition of the proposed backwash discharge from the plant with the existing estimated base flow in East Sheldon Creek will not likely exceed the existing permissible velocity and allowable shear stress thresholds of the downstream bed and banks, it does not assess the instream impacts that could occur during periods when existing flows within the creek are higher than the assumed base flow (i.e. discharges from the plant will not only occur during low flow/base flow conditions). As indicated in our past meetings, it would have been our preference for an erosion threshold analysis that is based on continuous modeling. Such an analysis could demonstrate that the

critical erosion threshold flow rates would not be exceeded for a longer duration or more frequently with the proposed change in flows.

2. Staff however, appreciate the cost, time and effort that would be required to complete such an analysis, as well as the need for the proposed Plant Expansion and the limited options available to the Region to discharge the membrane backwash effluent water from the plant. As such, staff would be prepared to consider an outlet point from the plant to the East Branch of Sheldon Creek at the north Creek Path Crossing in conjunction with the Phase 2/3 plant expansion, based on the information currently available. We look forward to reviewing the proposed flow attenuation/mitigation plan (as discussed within the report) early in the detailed design/permitting stage to ensure that the appropriate measures are incorporated at the outlet and at the plant. Staff are generally supportive of the baseline monitoring components discussed in **Section 8.3 Monitoring-adaptive management:** (page 22) of the report however, monitoring requirements should be finalized with Conservation Halton and Town of Oakville staff early in the detailed design process to ensure that adequate baseline monitoring is completed prior to commencement of construction. An adequate and multi-year monitoring and reporting plan will also be required in conjunction with approval for the outlet. Staff anticipate that a minimum of 3 years of post-construction monitoring will be required, with the exact period etc. to be determined based on the results of the initial year of post-construction monitoring.

Terrestrial Ecology

3. The vegetation assessment was undertaken on November 8, 2011, which is not an ideal time of year for such studies. We recommend that a more detailed survey be undertaken at the appropriate time of year at detailed design in order to verify whether any species of concern are present.
4. Please note that species native to Halton Region will be required for all restoration works associated with the creek. Conservation Halton's landscaping guidelines are available on our web site (<http://www.conservationhalton.on.ca/ShowCategory.cfm?subCatID=1168>) and may provide assistance in this regard.
5. It is noted that the mature sugar maple forest is intolerant of wet soils, but that the anticipated water level rise of 126mm is not anticipated to result in any impact. We note that this forest (commonly referred to as Burloak Woods) is considered Significant Wildlife Habitat because of the function it provides as a stopover area for migrating birds. It is also a substantial amenity to the local residents. Given the importance of this area, we recommend that water be discharged downstream of this feature if at all possible. If engineering or other factors dictate that the outlet must be upstream of the woodlot, then we request that monitoring be undertaken to ensure that no negative impacts occur.

Aquatics Ecology Comments

6. **Section 7 Aquatic Ecology Evaluation:** Conservation Halton Fisheries database records indicate that Brown Trout (*Salmo trutta*) were sampled by Conservation Halton staff at two sampling locations downstream of the Burloak Water Purification Plant in August 27, 2008. Rainbow Trout (*Oncorhynchus mykiss*) were sampled in the Main Branch of Sheldon Creek where it flows under Spruce Ave., (which is located one kilometer upstream of the confluence of the Main Branch with the east branch of Sheldon Creek) on May 5, 2003 and on April 18, 2007. Fantail Darter has also been documented to inhabit portions of Sheldon Creek downstream of the confluence of the east branch with the main stem. Fantail darter are generally known to be indicators both decent physical habitat as well as water quality. Staff recommend this Section be updated to reflect current data holdings of both Conservation Halton and the Aurora District OMNR office.
7. **Section 7 (1 & (2:** Staff generally concur with the suggested benefits to fish habitats.

We trust the above is of assistance. If you require additional information please contact the undersigned at extension 235.

Yours truly,



Jane DeVito
Environmental Planner
JD/q

cc: Philip Kelly, Town of Oakville, email
George Trenkler, Town of Oakville, email
Sandra Rodriguez, Halton Region, email
Wolfgang Wolter, AECOM, email



Development Engineering Department

Halton Region, Public Works & Engineering
1151 Bronte Road
Oakville, ON
L6M 3L1

Attention: Mr Teodor Kochmar

**Re: Burloak Water Purification Plant Phase 2&3 Expansion
Class Environmental Assessment Study
Project No.: 060114069**

Dear Mr. Kochmar:

Staff have reviewed the following document:

Region of Halton, Sheldon Creek, East Branch-Assessment, Burloak Water Purification Plant Expansion (Phase 2) Environmental Assessment Support, as prepared by AECOM dated Dec 2011 and received Dec 12, 2011.

Comments are provided below.

1. For the proposed Phase 2/3 expansion, the Town can support a properly designed outlet for the Burloak WPP to the East Branch of Sheldon Creek near the north Creek Path Ave / Great Lakes Blvd intersection. The Phase 2/3 expansion is reported as having a plant capacity of 165ML/d with attenuated sustained discharges to East Sheldon Creek estimated at 100 l/s (average, 95% recovery) to 200 l/s (peak, 90% recovery).
2. Design drawings/report on the proposed attenuation method is required to be submitted for review and approval during the site plan application process for the plant expansion. Similarly, design drawings and supporting documentation for the proposed outfall/flow dispersion structure to East Sheldon Creek will be required.
3. Baseline and post-construction monitoring will be required. The Town will work with the Region/AECOM and Conservation Halton to finalize monitoring requirements early in the detailed design process. We suggest a more detailed base-line and post construction workplan be submitted by AECOM/Region for review early in the detailed design process.
4. Please submit a final report stamped and signed by both a P.Eng. and a fluvial geomorphologist.

5. If and when the Region decides to proceed with the Phase 4 (220 ML/d) and/or Ultimate Site Capacity expansion (440 ML/d), a similar report to the Dec 2011 AECOM report regarding discharge levels and impacts on East Sheldon Creek will need to be prepared in conjunction with the EA studies.

Thank-you for preparing this report and meeting with Conservation Halton and the Town on this matter. If you require additional information please contact myself at 905-845-6601 x3298.

Yours sincerely,

A handwritten signature in blue ink, appearing to read 'Philip Kelly', with a long horizontal flourish extending to the right.

Philip Kelly, M.Sc., P.Eng.
Manager, Development Engineering
Town of Oakville

cc George Trenkler, Town of Oakville
Wolfgang Woter, AECOM
Oya Koc, AECOM

Rodriguez, Sandra

From: Koc, Oya
Sent: Thursday, November 24, 2011 3:53 PM
To: Rodriguez, Sandra
Subject: FW: Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, File No. PR-2581A – Notice of Public Information Centre

Oya

From: Don Boswell [<mailto:Don.Boswell@aadnc-aandc.gc.ca>]
Sent: November 24, 2011 2:09 PM
To: Koc, Oya
Cc: Ralph Vachon
Subject: Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, File No. PR-2581A – Notice of Public Information Centre

I am writing in response to your letter of November 16, 2011 inquiring about claims in the above noted area.

In determining your duty to consult, you may wish to contact the First Nations in the vicinity of your area of interest to advise them of your intentions. To do this you may:

1. find the Reserves in your area of interest by consulting a map of the region such as the Province of Ontario Ministry of Aboriginal Affairs online map at <http://www.ainc-inac.gc.ca/ai/scr/on/rp/mcarte/mcarte-eng.asp> ; then
2. search for the First Nations located on those Reserves by using the *INAC Search by Reserve* site at <http://pse5-esd5.ainc-inac.gc.ca/fnp/Main/Search/SearchRV.aspx?lang=eng>.

To determine the First Nations in your area of interest who have submitted claims please consult the *Reporting Centre on Specific Claims* at <http://pse4-esd4.ainc-inac.gc.ca/SCBRI/Main/ReportingCentre/External/ExternalReporting.aspx?lang=eng>.

It should be noted that the reports available on the INAC website are updated regularly and therefore, you may want to check this site often for updates. In accordance with legislative requirements, confidential information has not been disclosed.

Please rest assured that it is the policy of the Government of Canada as expressed in *The Specific Claims Policy and Process Guide* that:

“in any settlement of specific native claims the government will take third party interests into account. As a general rule, the government will not accept any settlement which will lead to third parties being dispossessed.”

We can only speak directly to claims filed under the Specific Claims Policy in the Province of Ontario. We cannot make any comments regarding potential or future claims, or claims filed under other departmental policies. This includes claims under Canada's Comprehensive Claims Policy or legal action by a First Nation against the Crown. You may wish to contact the Assessment and Historical Research Directorate at (819) 994-6453, the Consultation and Accommodation Unit at (613) 944-9313 and Litigation Management and Resolution Branch at (819) 934-2185 directly for more information.

You may also wish to visit <http://www.ainc-inac.gc.ca/ai/mr/is/acp/acp-eng.asp> on the INAC website for information regarding the Federal Action Plan on Aboriginal Consultation and Accommodation.

To the best of our knowledge, the information we have provided you is current and up-to-date. However, this information may not be exhaustive with regard to your needs and you may wish to consider seeking information from other government and private sources (including Aboriginal groups). In addition, please note that Canada does not act as a representative for any Aboriginal group for the purpose of any claim or the purpose of consultation.

I hope this information will be of assistance to you. I trust that this satisfactorily addresses your concerns.

Sincerely,

Don Boswell
Senior Claims Analyst
Ontario Research Team
Specific Claims Branch



November 16, 2011

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Tel: 905-825-6000, ext. 7637
Fax: 905-825-0267
Email: teodor.kochmar@halton.ca

Dear NAME
ORGANIZATION
ADDRESS

RE: Notice of Public Information Centre – Class Environmental Assessment, Burloak Water Purification Plant, Phase II Expansion, Ward 1, Town of Oakville, Our File: PR-2581A

The Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (Class EA) study. As part of the Class EA approval process, Halton Region will be hosting a second public information centre on November 30, 2011 to allow you to learn more about the status of the project and give us your feedback on the results of the evaluation process and the preliminary preferred treatment design concept for the expansion. The details of the upcoming public meeting are as follows:

Date: Wednesday, November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on November 30, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in black ink, appearing to read "Teodor Kochmar".

Teodor Kochmar, P.Eng. PMP
Project Manager, Water Design and Construction
Regional Municipality of Halton
Telephone: 905-825-6000 ext. 7637
Email: Teodor.kochmar@halton.ca

A handwritten signature in blue ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.
Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

cc: Gary Carr, Halton Regional Chair
Tom Adams, Regional Councillor & Chair of the Planning & Public Works Committee
Paul Sharman, Regional Councillor, City of Burlington, Ward 5
Patrick Moyle, CAO, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region

Robert Burton, Mayor, Town of Oakville
Allan Johnston, Regional Councillor, Town of Oakville, Ward 1
Ralph Robinson, Town Councillor Town of Oakville, Ward 1
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction,

The Regional Municipality of Halton



Halton Region

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

NOTICE OF PUBLIC INFORMATION CENTRE #2

Municipal Class Environmental Assessment for Phase 2 Expansion of the Burloak Water Purification Plant, Town of Oakville

The Study

Halton Region is undertaking a Class Environmental Assessment (Class EA) Study to increase capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

The Class EA Study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007).

The purpose of the Class EA study is:

1. To identify the preferred water treatment solution for increasing the plant capacity; and
2. To recommend the preferred treatment design concept for the expansion.

The Class EA study includes:

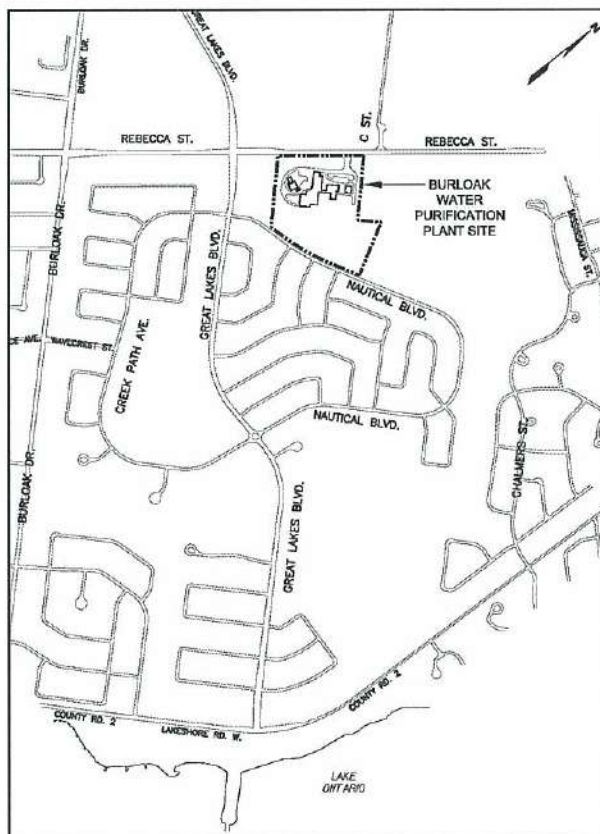
- Public and agency consultation;
- Evaluation of alternative treatment design concepts for the expansion;
- Assessment of the impacts of the proposed work; and
- Identification of measures to mitigate impacts. Technical, socio-cultural, natural environmental and economic issues will be considered during the assessment.

The Communication and Consultation Process

As part of the study, the first Public Information Centre (PIC) was held on April 28, 2011 to introduce the project, the preliminary treatment alternatives under consideration and the evaluation criteria to be used for the selection of the preferred treatment design concept for the expansion.

A second PIC is scheduled for:

Date: November 30, 2011
Time: 6:30 p.m. – 8:30 p.m.
Location: Burloak Water Purification Plant
3380 Rebecca Street
(Parking available on site)



The purpose of the second PIC is to present the results of the evaluation process, introduce the preliminary preferred treatment design concept for the expansion, and the next steps in the study. You are encouraged to attend the PIC and provide comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended treatment design concept for the plant expansion as well as the mitigation measures. Staff members from Halton Region and the consultant's team will be available to provide details on the project and discuss your comments.

If you are unable to attend, we would still like to hear from you. Please contact either of the project team members listed below if you have any questions or comments, wish to obtain more information on the project, or would like to be included on the project contact list:

Teodor Kochmar, P.Eng. PMP
Project Manager
Halton Region
1151 Bronte Road
Oakville, Ontario L6M 3L1
Telephone: 905-825-6000 ext. 7637
Fax: 905-825-8822
Teodor.kochmar@halton.ca

Oya Koc, P.Eng.
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

With the exception of personal information, all comments will become part of the public record. Additional information related to the study and consultation process may be obtained through the study website: www.halton.ca/EAs.

Minutes of Meeting

Date of Meeting	November 15, 2011	Start Time	2:00 pm	Project Number	60114069
Project Name	Class EA Process and Conceptual Design for Burloak WPP Expansion (Phase II)				
Location	Conservation Halton, Committee Room No. 1 2596 Britannia Road West, Burlington, Ontario L7P 0G3				
Regarding	Consultation with Conservation Halton – Minutes of Meeting No. 21				
Attendees	Conservation Halton Region of Halton AECOM	Janette Brenner Teodor Kochmar Oya Koc Wolfgang Wolter			
	Town of Oakville	Philip Kelly George Trenkler			
All in attendance – Brian Sahely, Sandra Rodriguez, Tricia Hamilton					
Minutes Prepared By	Oya Koc / Tricia Hamilton				

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.

		Action
1. Introduction		
<ul style="list-style-type: none"> AECOM made a PowerPoint presentation entitled "Sheldon Creek East Branch Condition Assessment". A copy of the slides presented during the meeting is attached to these minutes for further reference. After the presentation, a general discussion was held. 		Info
2. Items from Presentation		
<ul style="list-style-type: none"> Due to the stability of the new establishing creek bank on the north side of the Burloak WPP and the developed pond downstream of the intersection of Rebecca Street and Great Lakes Blvd, the area on the west side of the plant is being considered for the discharge location (which is north west corner of Great Lakes and Nautical). The existing channel of the creek is predominantly shale bedrock, with high-bank vegetation, exposed tree roots on banks, and leaning / fallen trees. The base flow of the creek was established based on observation and measurement including a sensitivity analysis on base flows likely to occur in the channel 		Info

	Action
<ul style="list-style-type: none"> • The flow regime of the creek has been analyzed to determine if the flow stays within the defined bank. Given the extent of entrenchment, modelling shows that the 2-year and flows lower than the 2-year (in many cases), stays within the banks. • Channel can be considered relatively stable with evidence of long term bed degradation, widening and planform development. • Some areas have a larger extent of bedrock exposure (reach three) and therefore are considered more sensitive • Terrestrial ecologists performed a site visit review and assessed the vegetation along the channel as being in good condition • A water level study was done. At a 2-year storm, during peak flow the water level would rise by 25 mm to 35mm depending on the location • Options to attenuate the peak flow from the plant would need to be considered to lessen the impact on the channel • Monitoring of the discharge flow will be needed to determine of the flow mitigation approach is functioning appropriately 	
<p>3. Discussions</p> <ul style="list-style-type: none"> • If the plant is expanded to have a potable water production of 220 ML/d, the peak discharge flow would be approximately 282 L/s • Model results show that Particle shear forces would not be a concern in most channel sections • Wolfgang commented that during their site investigation they did not see any critical areas. • Conservation Halton is used to seeing erosion threshold values which would be slightly different approach. Wolfgang will clarify the information so that Conservation Halton can carry out their review • Justifications for the location of the discharge include: proximity to outfall, operational ease, manhole location is available, fewer utilities, and crossing of the intersection is easier. • The phases of the plant expansion will be better outlined to show flow impacts. • A report will be issued next week to the Region of Halton. Four weeks of review time are required for Conservation Halton. A letter will be issued from both Conservation Halton and from the Town of Oakville. • It was pointed out that Region is looking for expansion to 165 ML/d and eventually to 220 ML/d. If the requirements for 440 ML/d are different, another class EA study will be done and issues will be re-evaluate at that time as well. 	<p>Info</p> <p>Info Info</p> <p>AECOM</p> <p>Info</p> <p>Info AECOM / CH</p>

Sheldon Creek East Branch Condition Assessment

Burloak Water Purification Plant Expansion (Phase 2).
Environmental Assessment

Region of Halton

November 15, 2011

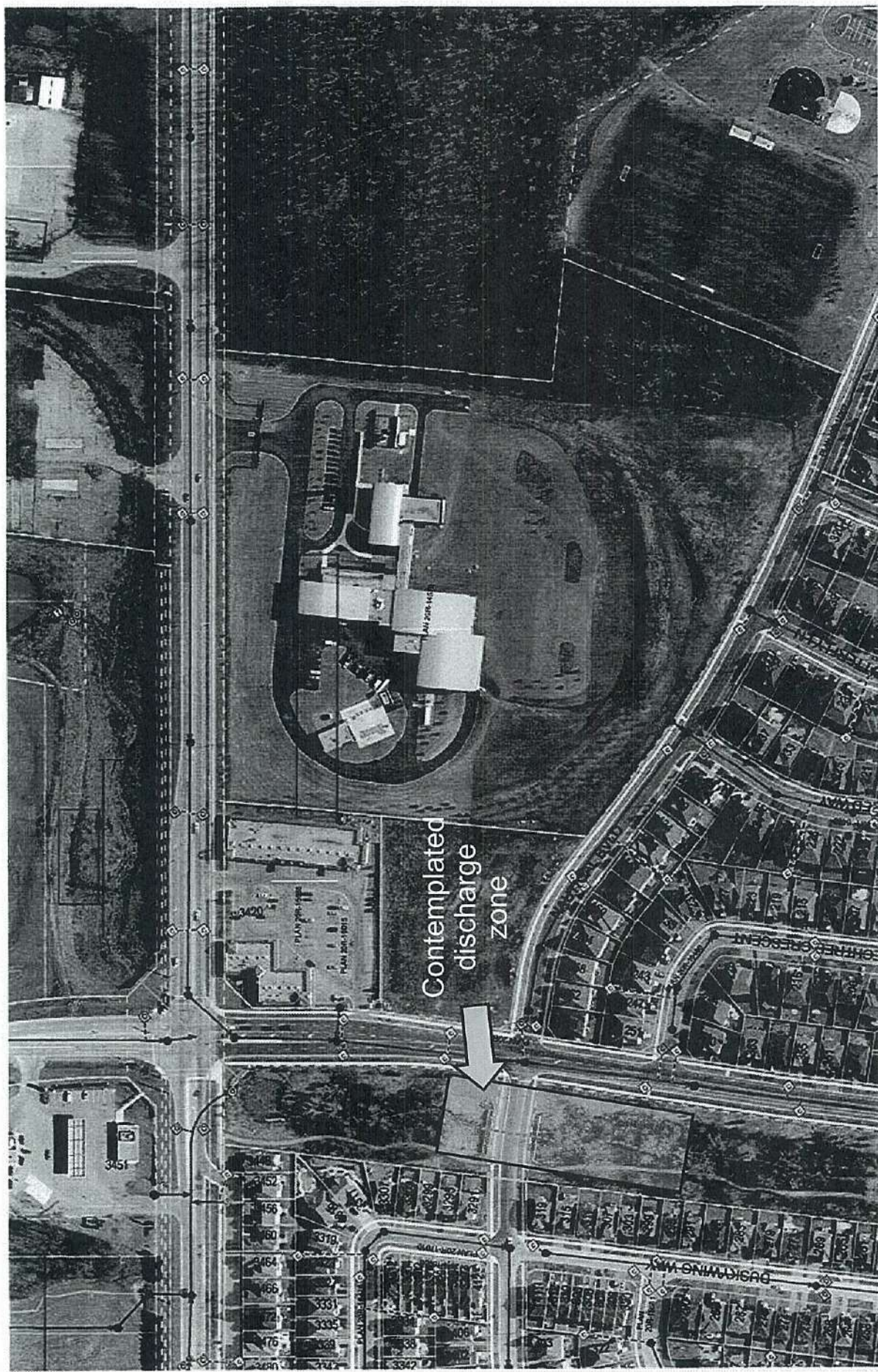
AECOM

Approach

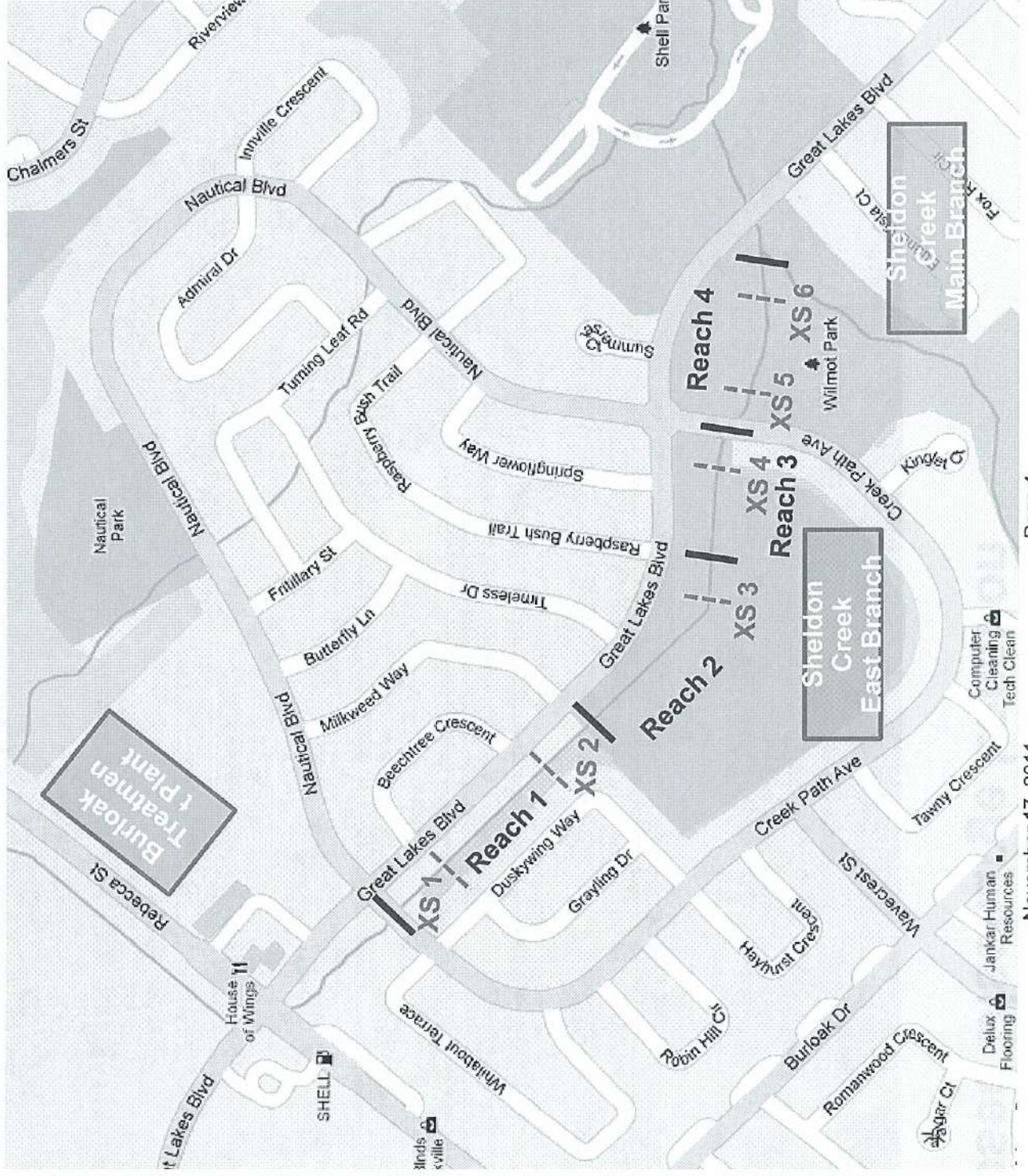
Assessment of Existing Conditions

- HecRas Model – provides basis of channel geometry
- Geomorphic Evaluation (four distinct reaches defined – surveyed six geomorphic cross sections)
- Conduct Erosion assessment of channel based on model results, observations and soil particle size analysis
- Vegetative assessment and Aquatic review

Proposed Discharge Location

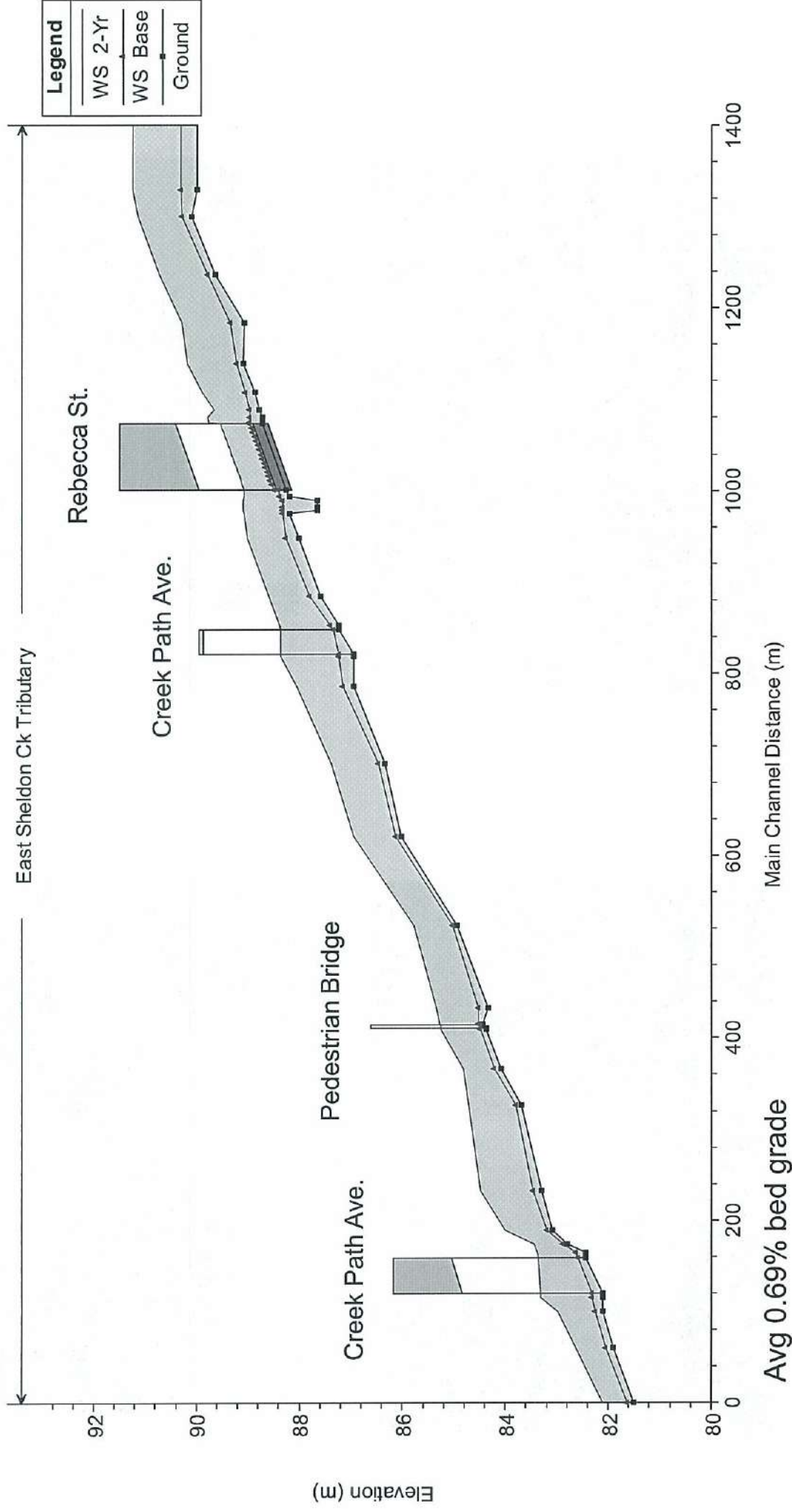


Sheldon East Branch Map



Summary of Existing Conditions

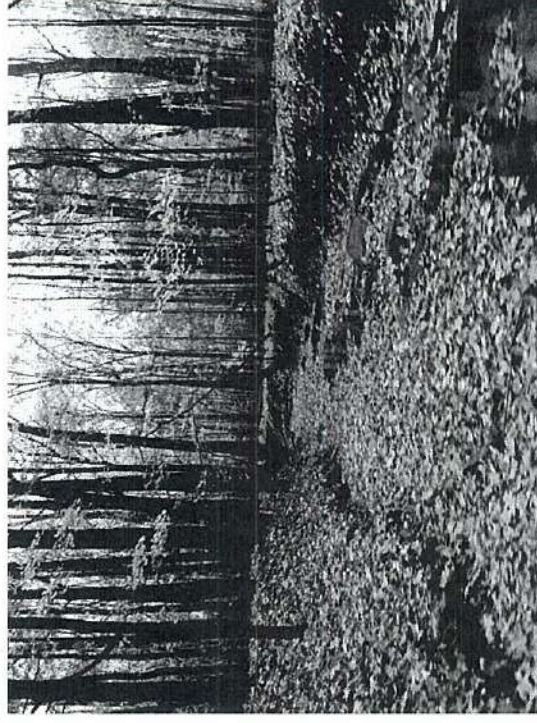
Reach Delineation Channel Profile



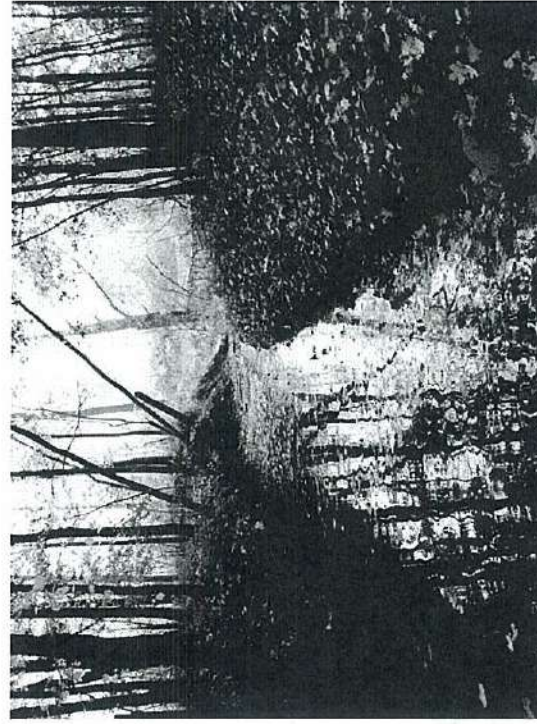
Reach Photos



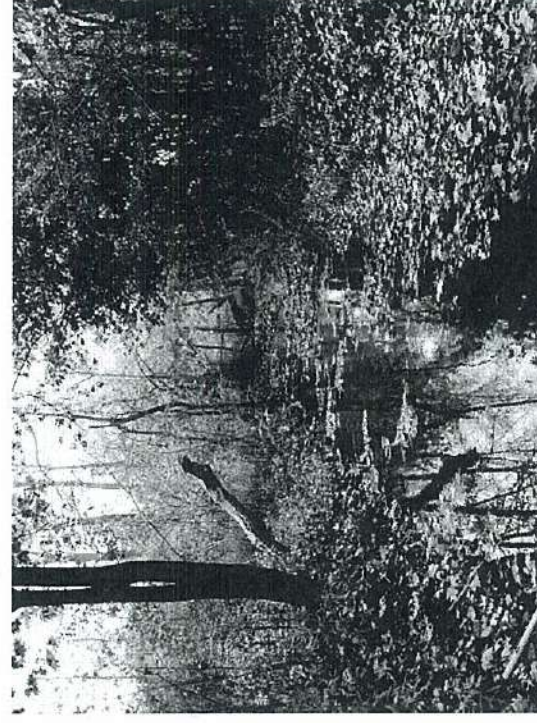
Photograph R1-2 ↑
Well vegetated channel banks in Reach 1



Photograph R2-1 ↑
Floodplain vegetation in Reach 2



Photograph R3-2 ↑
Riparian vegetation in Reach 3

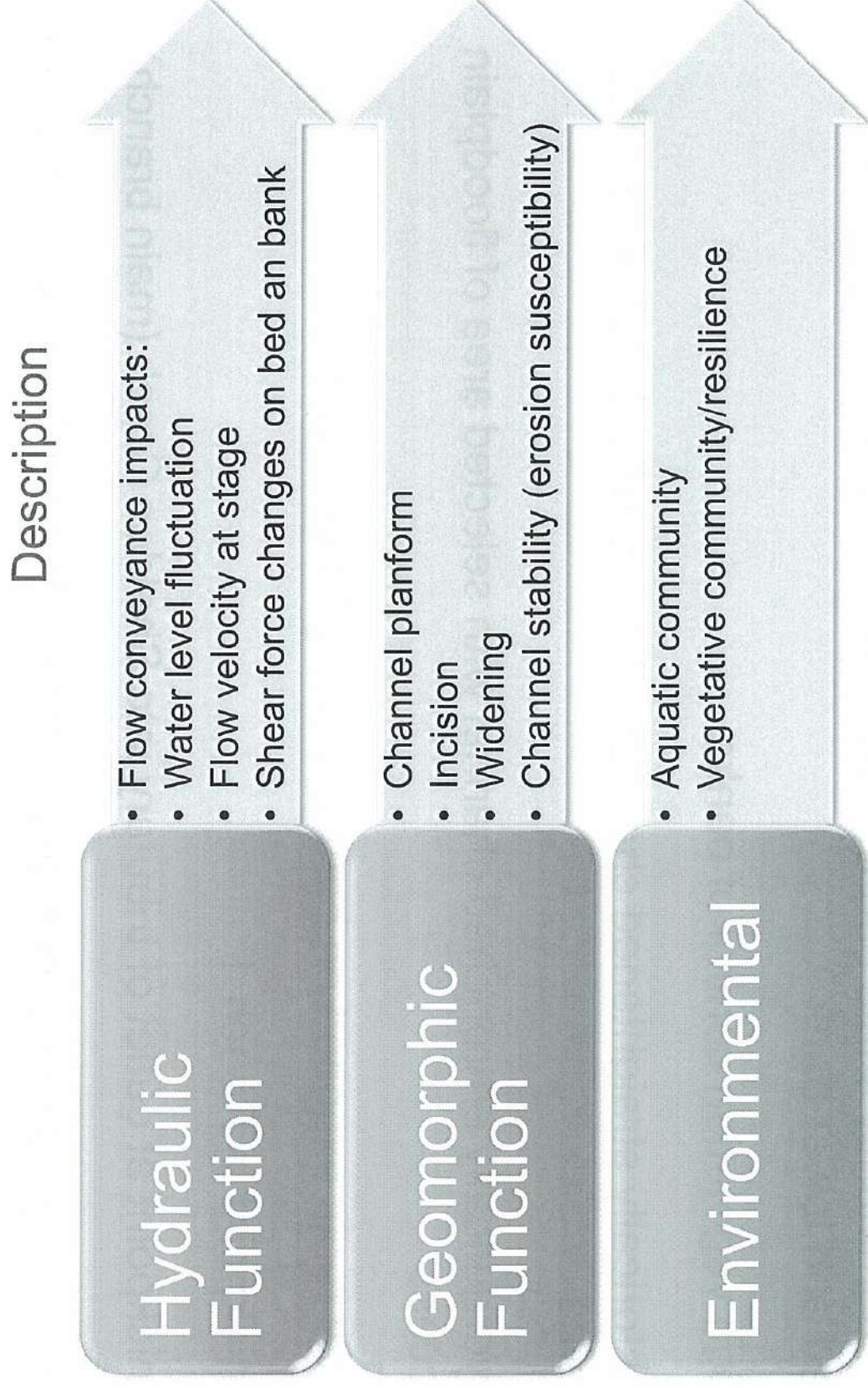


Photograph R4-1 ↑
Typical channel section in Reach 4

Existing channel description:

- Predominantly shale bedrock channel, bedrock exposed on channel bed and lower bank
- High vegetation control of banks
- Historically straightened channel with sinuosity developing within some areas
- Hydraulically entrenched channel with selected area of floodplain access
- Tree roots exposed on banks, leaning/fallen trees
- Knickpoint in Reach 1
- Knickpoint at outlet of tributary into Sheldon Creek (main branch)
- Shale fragment accumulations on the channel bed and on depositional bars

Reach Evaluation

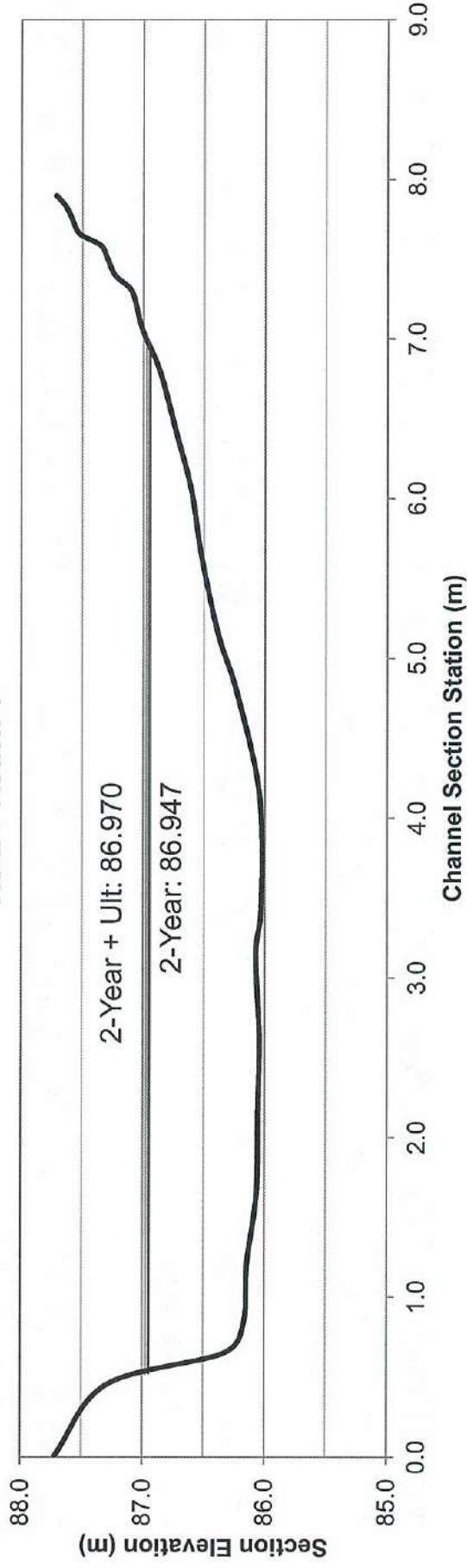


Flow stage determination

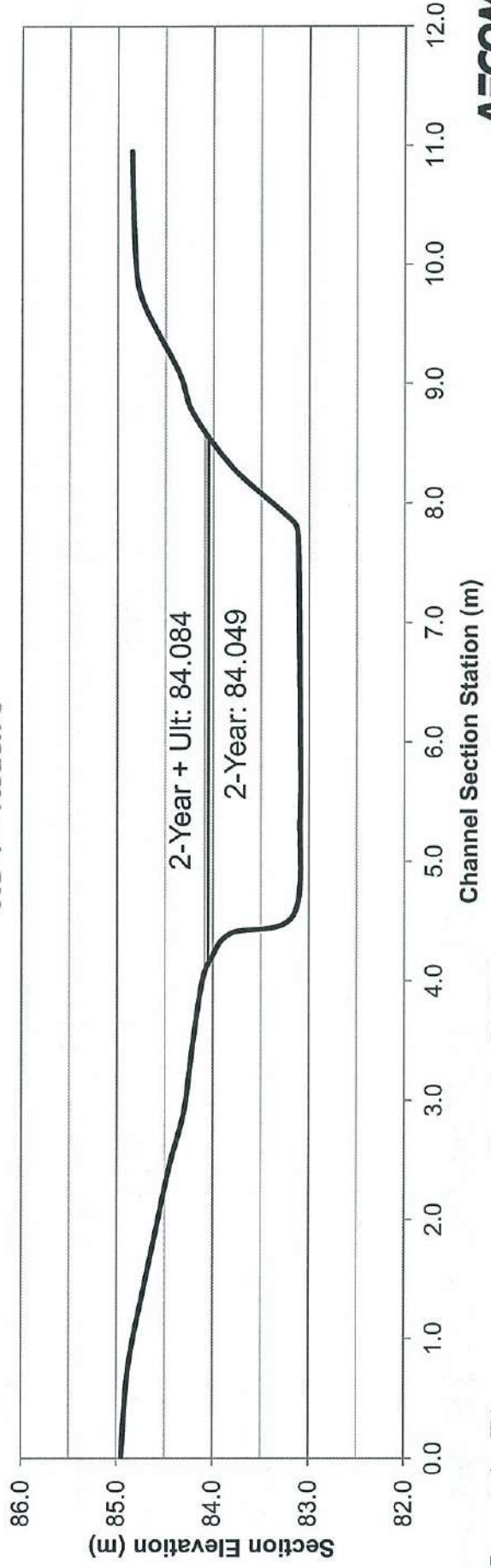
- Majority of impacts are on the lower bank
- Provided a range of low flows (7) above measure base flow- and created sensitivity analysis to capture operational range during discharge conditions
- Applied varied discharge flow conditions, but focused on Max expansion value of 540 l/s
- Ran additional flows and documented increases in shear and velocity
- Compared with in-situ soil competence samples from each cross section

Water Level Comparison

XS 2 – Reach 1



XS 4 – Reach 3

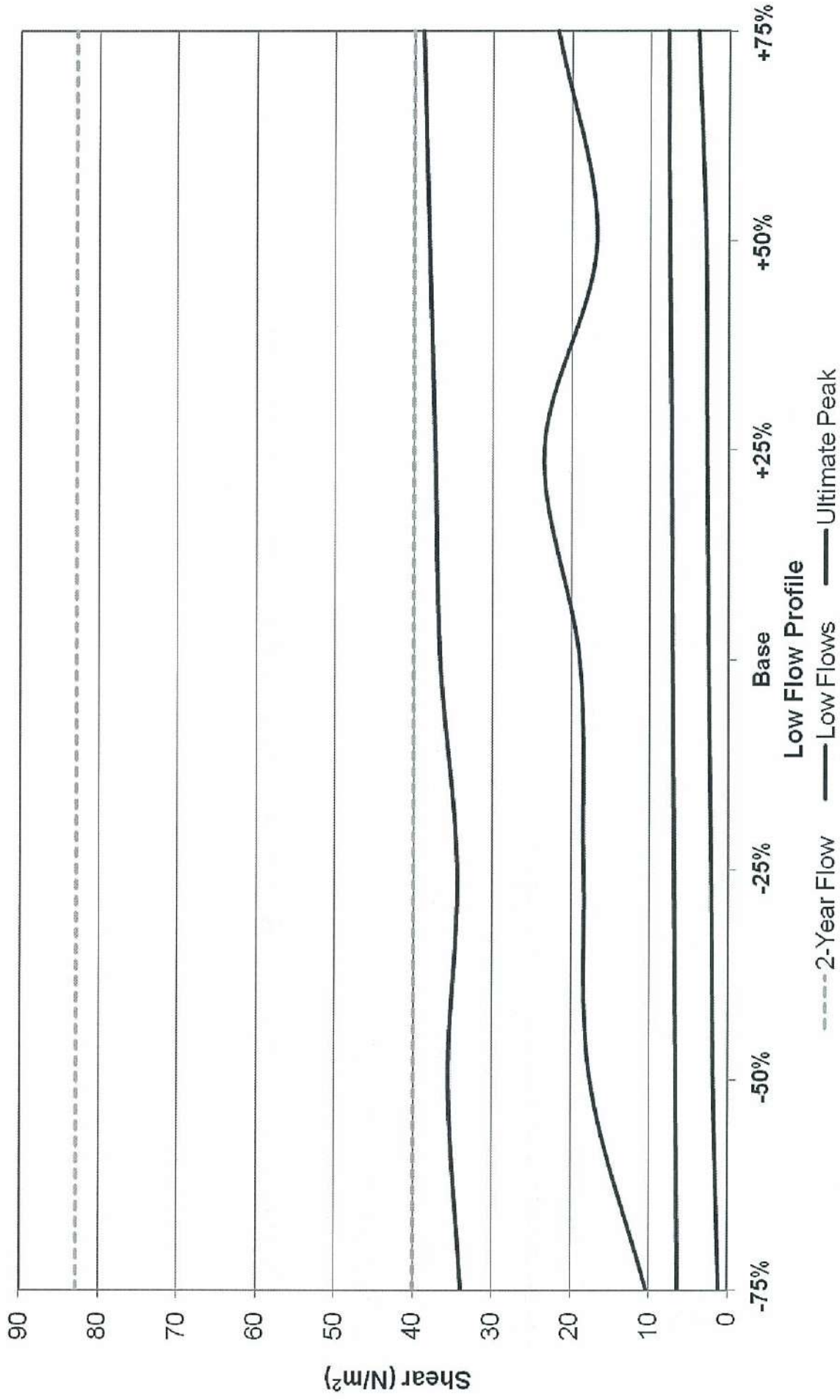


Channel Stability (geomorphic)

- Channel can be considered to be relatively stable
- Evidence of long term bed degradation, widening and planform development
- Reach 3 is considered most sensitive due to the extent of bedrock exposure
- Reach 4 is aggradational (sedimentation zone)

Shear Analysis

Summary of Shear (Range from all Sections)



Aquatic Review

- No aquatic species were identified at the time of the field reconnaissance
- Species documented from the main branch of Sheldon creek:

Blacknose Dace

White Sucker

Brook Stickleback

Rainbow Darter

Common Shiner

Longnose Dace

Creek Chub

Fathead Minnow

Given the connection of the Main branch to the East branch, these species are considered to be common in the study reach.

The entire reach of the east branch would be considered as fish habitat

Aquatic Review

- Data derived from '07 Bronte Creek and Supplemental Monitoring (2009)
- Benthics at Shell Park: impaired
- EPT value: very low (four species)
- Bedrock base difficult for benthic habitat

Vegetative Review

- AECOM ecologists characterized the terrestrial conditions along Sheridan Creek East Branch.
- Communities were delineated according to Ontario Ministry of Natural Resources' Ecological Land Classification (ELC) system (Lee et al, 1998).
- Along the creek, there are four distinct ELC communities.
- Mineral Cultural Woodland Ecosite: tree cover of between 15 to 40 percent. Dominant tree species include Norway maple Manitoba maple and green ash. The shrub cover is dominated by the invasive common buckthorn.
- Dry-Fresh Sugar Maple - White Ash Deciduous Forest Type: mature forest with at least 80 percent tree cover. This community is limited to an area immediately adjacent to the creek

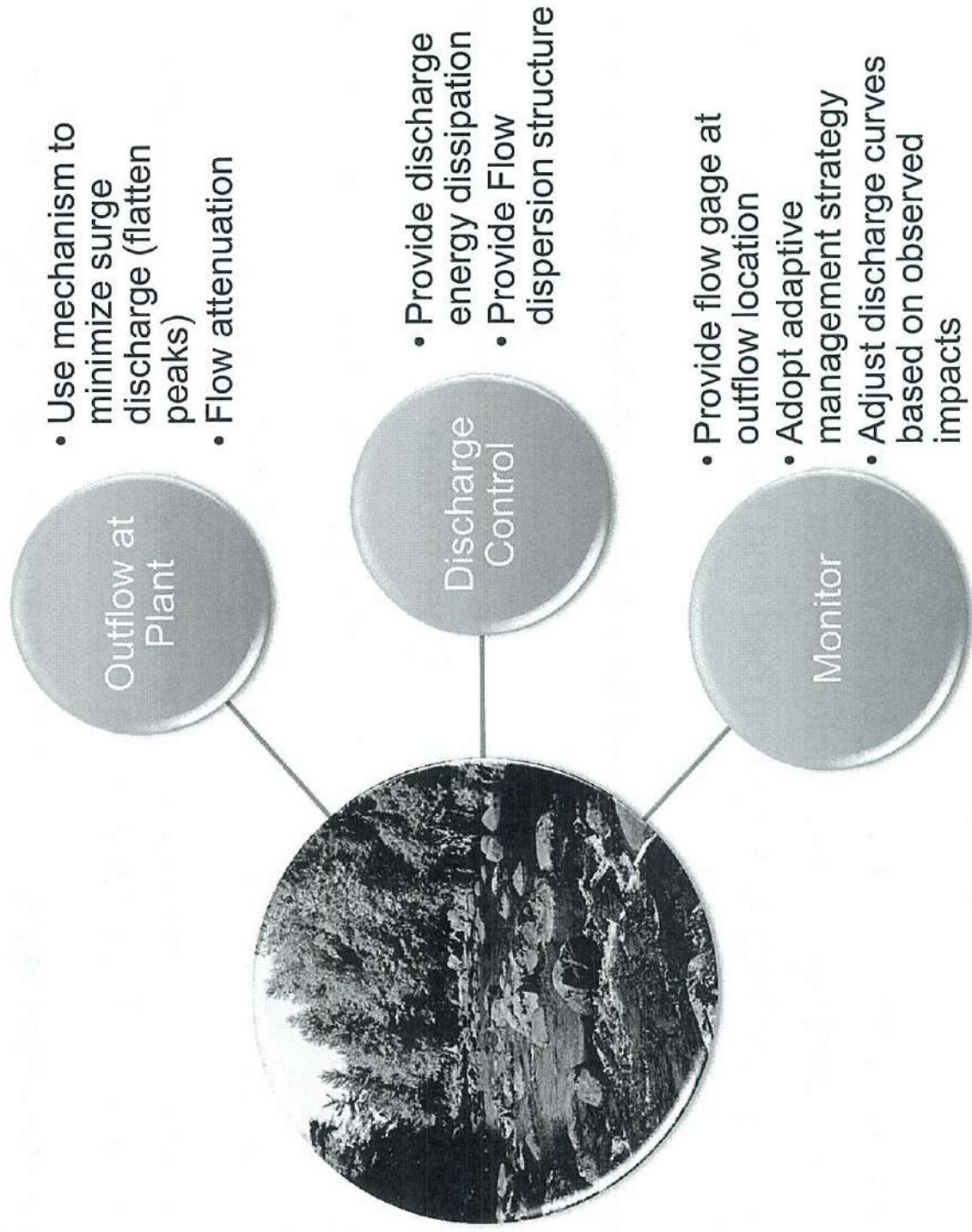
Fluvial prediction

- Long term processes of widening and incision are expected to continue, regardless of any further change in flows:
- Shale bedrock erosion processes predominate future channel change
 - Plucking, quarrying, weathering, freeze-thaw etc.
- Alteration in flow regime due to watershed urbanization elicits channel response
 - Increases frequency of flows
 - Increased volume of flows

Summary of Analysis

- Additional wetting of shale may be advantageous
 - Bank toe weathering into sticky clay that protects shale bank
 - Reducing break-up of shale on bed and bank toe due to wetting-drying cycles, solar exposure
- The slake zone (lower bank) will be most susceptible to flow alteration at most low flow stages above base flow
- Formation of longitudinal bars in some locations is indicative that flow velocities are lower at the banks, higher friction
- The lower bank is comprised of soil classified as: Gravel, some sand and silt
- The bed is comprised of soil classified as: Sandy Gravel
- The soil analysis suggests that the bed and bank composition can be tolerable to the impacts of increased flows
- average max flow variation at full expansion over average base flow elevation: 126mm

Recommendations



Thank You

Minutes of Meeting

Date of Meeting	October 19, 2011	Start Time	9:30 a.m.	Project Number	60114069
Project Name	Class EA Process and Conceptual Design for Burloak WPP Expansion (Phase II)				
Location	Conservation Halton, Committee Room # 1 - 2596 Britannia Road West, Burlington, Ontario L7P 0G3				
Regarding	Discharge Options Discussion – Minutes of Meeting				
Attendees	Conservation Halton	Janette Brenner			
		Jane De Vito			
		Samantha Mason			
		Kim Barret			
	Region of Halton	Teodor Kochmar			
		Jacqueline Weston			
	AECOM	Oya Koc			
		Sandra Rodriguez			
		Wolfgang Wolter			
	Town of Oakville	Philip Kelly			
	George Trenkler				
All in attendance – Brian Sahely					
Minutes Prepared By	Sandra Rodriguez				

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.

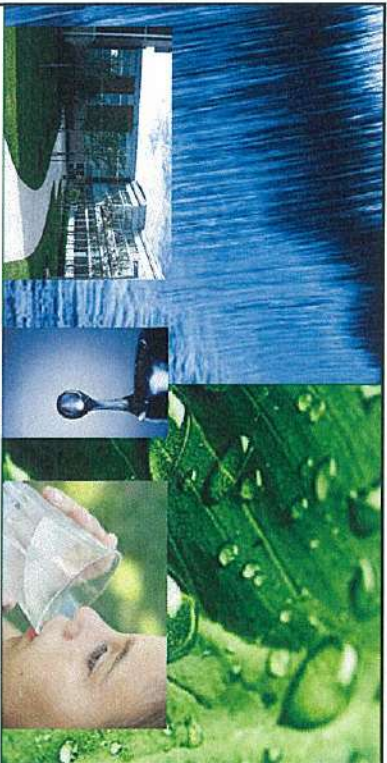
	Action
1. Introduction <ul style="list-style-type: none">All parties introduced themselves.	Info
2. PowerPoint Presentation <ul style="list-style-type: none">AECOM made a PowerPoint presentation throughout the meeting to highlight the major aspects of the project and the intent of discharging into the East Sheldon Creek. A copy of the slides presented during the meeting is attached to these minutes for further reference. A summary of the discussions had in the meeting are presented below.	Info

	Action
3. Class EA Project Background and Discussions	
<ul style="list-style-type: none"> • AECOM provided an overview of the history of the existing plant, existing capacity and the need for the future expansion, which is the basis for this Class EA study. 	Info
<ul style="list-style-type: none"> • AECOM briefly explained the main treatment processes currently used at the Burloak Water Purification Plant (WPP) and how wastes are generated. It was noted that there is a provision to practice chemical coagulation at the plant; however, due to the quality of the incoming water, chemical coagulation has not been practiced since commissioning of the plant (spring 2009) and is not expected to ever be used. It was explained that normally, new plants are designed for worst case scenarios and in the case of the Burloak WPP, where there was no raw water quality data available at the design phase, it was assumed that the plant could potentially need to use coagulants for additional treatment, but due to the good quality of raw water, coagulants have not been used. As such, the raw water at the Burloak WPP is not chemically modified prior to the membranes. 	Info
<ul style="list-style-type: none"> • It was explained how wastewater is currently produced at the plant. AECOM noted that all process wastewater produced at the plant is discharged to the sanitary sewer. The Region explained how backwash water is generated by reversing the flow of clean water through the membranes in order to reduce membrane surface fouling, naturally expected to occur over time. This procedure, which does not require the use of chemicals, occurs regularly during the day. It was also explained how a different type of membrane cleaning procedure is used at the plant with less frequency but with the assistance of chemicals. The Region further noted that this chemically enhanced water is collected and neutralized before is discharged to the sanitary sewer. 	Info
<ul style="list-style-type: none"> • A quick overview of raw water quality data collected for the Burloak WPP was provided with emphasis on organics, temperature, and turbidity. AECOM explained that the raw water source for this plant, which is Lake Ontario, is considered of a relative very good quality, mainly due to the fact that water quality conditions of Lake Ontario are generally good and also, to the location of the intake structure, which is about 1.5 km offshore and approx. 16 m deep in the lake. AECOM further noted that the deep location of the intake results in negligible effects on the incoming water from lake water turnover, so water quality is consistently good, with minor variations. 	Info
<ul style="list-style-type: none"> • Similarly, AECOM explained the permitted discharge concentration from the plant into the natural environment, which is dictated by the existing Drinking Water License and regulated by the MOE. AECOM noted that the existing license limits the total suspended solids (TSS) in the effluent discharge to an annual average of 15 mg/L of TSS. It was further noted that besides TSS and chlorine, no other parameters for effluent discharges are regulated by the MOE. 	Info
<ul style="list-style-type: none"> • AECOM explained that the original design for the plant intended for the 	Info

	Action
<p>process water to be discharged either to the stormwater or the sewer systems. The stormwater system within the plant site was designed so that it eventually discharges to a stormwater pond located downstream of the plant. It was noted that based on the flows experienced at the new plant, all process wastewater has been consistently discharged into the sanitary sewer with no contributions to the stormwater system/stormwater pond. The town of Oakville stated that their understanding was that the stormwater pond would be used only during commissioning of the plant (phase 1) but not as part of the plant's normal operations. Conservation Halton (CH) noted they had the same understanding of the pond use. AECOM clarified that this was brought up to light recently by the Town of Oakville and as such; alternate options for discharge of process wastewater need to be evaluated.</p> <ul style="list-style-type: none"> • AECOM provided preliminary projected discharge flows for the next expansion of the plant, which will increase the capacity from its existing 55 ML/d to 165 ML/d, as well as flows for future plant expansions beyond 165 ML/D, which are outside of the scope of this Class EA study. This information was presented as Region is looking for ultimate design flows; however, this info could allow CH to identify potential limitations with any of the expected discharge flows from this or/and future plant expansions. • AECOM explained the two alternate discharge options, which were initially recommended by Town of Oakville during a previous consultation meeting. Both options comprise discharging to the East Sheldon Creek at two different locations, one is to the north of the plant and the other is to the east of the plant. This latter option is preferable to the Region based on an initial technical review. AECOM and the Region would like to consult with CH the feasibility of any of these options before making any final decisions on the preferred solution. • CH noted that from an energy perspective, the "sludge" removed from the water during the treatment process is important to the preservation of the habitats in the lake. CH further noted that algae and other organic material drives the fish communities in the lake, so it would be preferable to put the removed sludge back into the lake. AECOM explained that the plant is not located in close proximity to the lake, so from a technical perspective, it would be very difficult to accommodate a direct discharge from the plant to the lake. It was also stated that algae would not be found in the discharge wastewater. To explain the removal process of large and fine debris and constituents from the water, AECOM and the Region explained the purpose of the screens located at the intake structure and within the plant, upstream of the membranes. • CH asked about fish getting trapped in the screens/intake pipe. Region explained that intake pipe and the intake screens were designed to prevent potential losses of fish due to entrainment and that intake 	<p></p> <p>Info</p> <p>Info</p> <p>Info</p> <p>Info</p>

	Action
<p>pipes are designed based on maximum velocities that will prevent fish from being pulled into the pipe.</p> <ul style="list-style-type: none"> CH requested to look at the water quality in the discharge water to determine how much organics, inorganics, BOD and other solids/compounds are being removed at the plant, as well as the composition of coagulants that could potentially be used at the plant. Region noted that currently they only analyse for TSS and chlorine in the discharged water, as these are the only parameters that need monitoring, as per MOE. Region stated that they would look into doing some additional analysis to determine the characteristics of the discharge water at the Burloak WPP and further noted that the coagulant that could potentially be used in the future cannot be confirmed at this time, but some information based on assumptions that were made during the design stages of the plant, can be provided. Region to provide composition of potential coagulants to CH prior to the next meeting. Temperature has also been flagged as a concern, since water from the lake would be colder than in the creek, especially during summer. CH didn't have big concerns over temperature as fish prefer colder water (holds more oxygen). It was noted that from personal observations, the East Sheldon Creek is always wet, and from a fisheries perspective, it is better to have continuous flow through the channel as opposed to intermittent events. AECOM noted that fish habitat on main Sheldon Creek is considered poor to fair. Continuous flow could produce fish habitat which would be beneficial to the creek. CH expressed that they would look at flow contributions to the creek in terms of volumes, duration and frequency, seasonal discharge water temperatures, erosion thresholds and discharge approach. AECOM noted that from the Hec 2 model from Sheldon Creek main branch, we know peak flow rates for design events. CH noted they don't have flow monitors on the East Sheldon Creek but agreed to provide data for the engineered part of the creek to the north of the plant site. AECOM clarified that we would not tie directly into the existing culvert. Our proposed concept will be an off-line discharge with a separate structure equipped with an energy dissipation feature. Finer grain material or a filter layer could be provided to allow a smooth discharge that allows the water to trickle and seep into the creek. The Town of Oakville needs to be involved throughout this whole process as they own the creeks (the East Sheldon Creek and the creek to the North of Rebecca St.). 	<p>Region</p> <p>Info</p> <p>Info</p> <p>Conservation Halton</p> <p>Info</p> <p>Town</p>
<p>4. Next Steps Discussion</p> <ul style="list-style-type: none"> After the required information in terms of erosion thresholds, temperature, water quality, flow analysis and discharge control is provided to CH, they would be able to determine the feasibility of this project and whether a permit could be obtained during the design phase, as well as any existing or future limitations in terms of 	<p>Info</p>

	Action
<p>discharge.</p> <ul style="list-style-type: none"> • It was discussed that an erosion analysis for the East Sheldon Creek would need to be completed for CH and the Town to determine the feasibility of the proposed options. It was noted that the base flow in the creek needs to be identified. AECOM stated that cross sections for the creek would have to be developed in order to determine the flows, as well as in-situ flow measurements, but also noted that low flow characteristics from comparative streams could be used as a starting point. The Town of Oakville may have a design report completed for the re-alignment in the upper section of the Sheldon East and will provide AECOM with the report to use as information. It is believed that an HSPF model exists for the watershed but access to it may be limited due to its unknown state of review or completion. • AECOM proposes to use existing hydrologic information to derive flow conditions in the channel and provide an estimate of channel stability based on the imposed shear forces. The additional proposed flow will be input to determine the changes in hydraulic response. A number of soil tests to characterize the nature of the channel bed and banks are proposed to assess the competent mean velocity of the material. This will help assess the overall condition of the channel. • Region would need to provide a stream restoration proposal for CH to review and determine whether it is acceptable. • Town noted the possibility that a fluvial geomorphologist could be needed to perform a study (up to 1-year) on the creek, to determine the erosion threshold. The need for this additional study will be identified based on the results of the initial investigation to be completed by AECOM. • The need for permits was also discussed. The following summarizes the discussion: <ul style="list-style-type: none"> – CH Permit for development or alteration to a watercourse (it is possible that the permit will allow up to a certain flow, with provisions for something else in the future) – DFO Permit – a permit may be needed from DFO subject to a letter of advice be issued by CH – Town of Oakville – work permit for works on East Sheldon Creek. – Town of Oakville Site Plant Application 	<p>Town/AECOM</p> <p>AECOM/Region</p> <p>AECOM/Region</p> <p>Info</p> <p>Info</p>
<p>5. Next Meeting</p> <ul style="list-style-type: none"> • Next Meeting with Conservation Halton is scheduled for Tuesday November 15, 2011 at the Conservation Halton office. The purpose of this meeting is to review the preliminary findings of the investigations to be conducted by AECOM and the Region. 	<p>Info</p>



Serving our Communities and our Environment

Class Environmental Assessment for Burloak Water Purification Plant Phase 2 Expansion Pre-Consultation with Conservation Halton

Project Background

- The 2002 Halton Water and Wastewater Master Plan Review identified the need for the Burloak Water Purification Plant (WPP).
- The Burloak WPP was to be built in phases, with the first phase providing a capacity of 55 ML/d (about 22 Olympic sized swimming pools). Timing and additional capacity requirements for the next expansions would be determined through reviews to the Region Master Plan.
- The 2008 Master Plan Update identified that next capacity expansion of the Burloak WPP would be required by 2016 to meet planning projections to 2021.
- The Region is currently undergoing the Sustainable Halton Water and Wastewater Servicing Master Plan Class EA study. This Master Plan will provide the servicing infrastructure strategy to serve the existing and future residents/business up to 2031.

South Halton Preliminary Preferred Water Servicing Strategy



Halton Sustainable Halton Water and Wastewater Servicing Master Plan

Preliminary Preferred Water Servicing Strategy as presented in Sustainable Halton Water and Wastewater Servicing Master Plan PC 2A, February 2011



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion

AECOM

Class Environmental Assessment Burloak Water Purification Plant Phase 2 Expansion

- Project Background
- Purpose of the Class EA Study
- Existing Plant Information
- Expansion of the Plant
- Discharge to natural Environment
- Next Steps



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion

AECOM

Burloak Water Purification Plant – Plant History

- The need for the Burloak Water Purification Plant (WPP) was identified in the 2002 Master Plan Review.
- A Class Environmental Assessment (Class EA) Study was completed in 2004 to select the preferred location and treatment process for the new plant. Consultation with the public and review agencies was undertaken as part of the 2004 study.
- Detailed design of the new plant was completed in 2006.
- Construction of the plant commenced in 2006.
- The plant started operating in 2009 with a capacity of 55 ML/d.



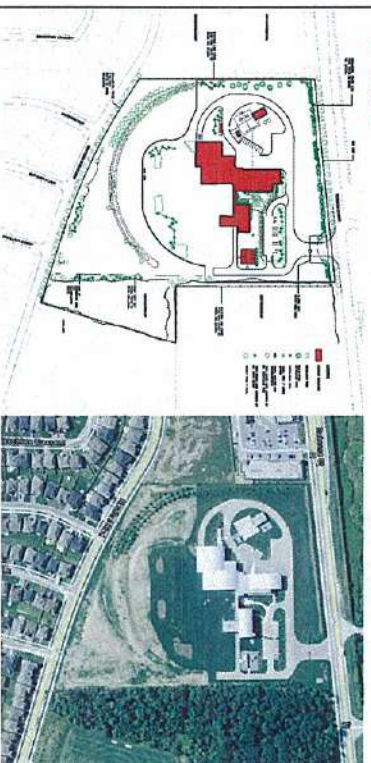
Burloak Water Purification Plant



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion

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Burloak WPP Phase 1 – Landscape Plan



Burloak WPP Phase 1 – Proposed Landscape Plan

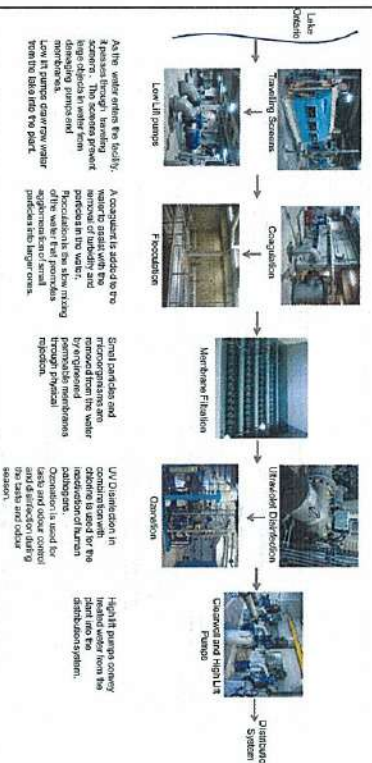
Burloak WPP Landscape



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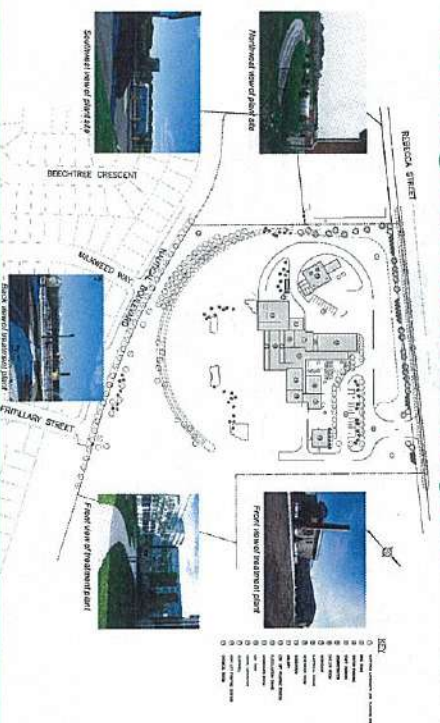
How is the Water Treated at the Burloak WPP?



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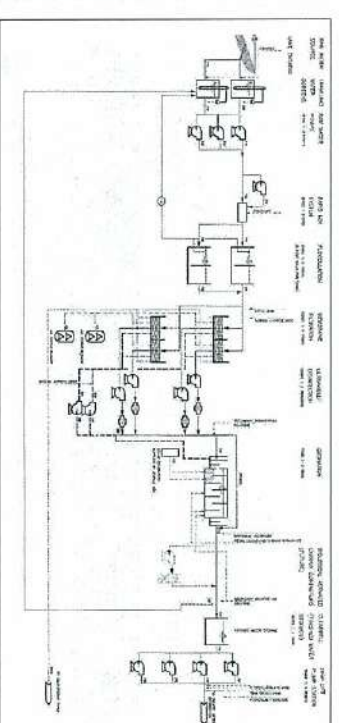
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Existing Burloak WPP Layout



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Burloak Water Purification Plant Phase 2 Expansion

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Burloak Water Purification Plant Phase 2 Expansion

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Permitted Discharge

Parameter	Units	Actual Data		Data?
		Average	Range	
Alkalinity	mg/L CaCO ₃	84	52 to 97	
Bacteria	mg/L	47	47	
Chlorophyll	µg/L	N/A	N/A	
Fluoride	mg/L	2	2	
Total Color	TCU	2	2	
Secchi	N/A	N/A	N/A	
MLB	µg/L	N/A	N/A	
Organics	mg/L as DOC	2.0	1.81 to 2.2	
Organic Nitrogen	mg/L	-	< 0.1 to 0.2	
pH	-	7.81	6.57 to 8.68	
Sodium	mg/L	18	0.5 to 60.0	
Temperature	°C	10.56	1.10 to 21	
Total Dissolved Solids	mg/L	3	0.15 to 9.7	
Total Hardness	mg/L	158	105 to 245	
Turbidity	NTU	0.13	0.25 to 1.39	
		0.2	0.1 to 0.75	

Residue Management

15 In respect of an effluent discharged into the natural environment from a treatment system or treatment sub-system component listed in column 1 of Table 2:

subsystem or treatment subsystem configuration listed in columns 1 of Table 2.

1.5.1 The *interval* overlays consideration of a third parameter identified in column 2 that not entered the value in column 3 of the same row, and

1.5.2 The maximum concentration of a test parameter identified in column 2 shall not exceed the value in column 4 of the same row.

exceed the value in column 4 of the same row.

Table 2: Portfolio Management

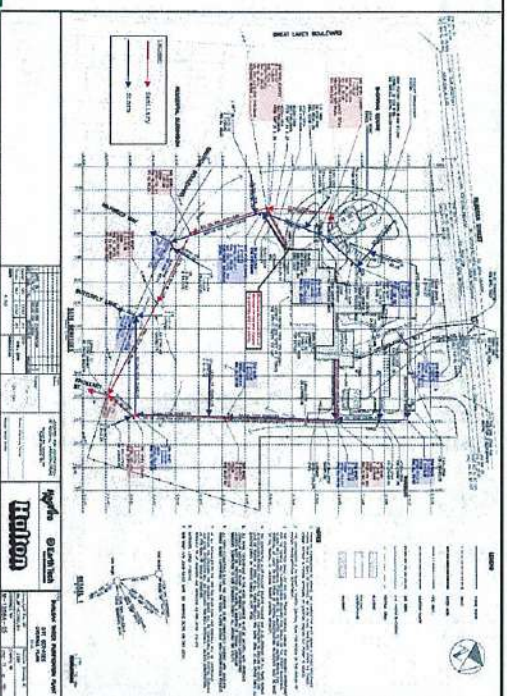
[illegible]

^a Durchschnittlicher Funktionswert der 15 besten Modellbildungen (1995)

© 2005 by Blackwell Publishing Ltd, *Journal of Internal Medicine* 257: 101–108



**Class Environmental Assessment
Burbank Water Purification Plant Phase 2 Expansion**



**Class Environmental Assessment
Burtonk Water Purification Plant Phase 2 Expansion**

AECOM

Projected Flows to Natural Environment

Plant Capacity	Discharge Flows (Average, 95%)	Discharge Flows (Peak, 90%)
55 ML/d (current)	-	-
165 ML/d (Phase 2 and 3)	100 L/s	200 L/s
220 ML/d (Phase 4)	135 L/s	270 L/s
440 ML/d (Ultimate Site Capacity)	270 L/s	540 L/s



Class Environmental Assessment
Buffalo Water Purification Plant Phase 2 Expansion

AECOM



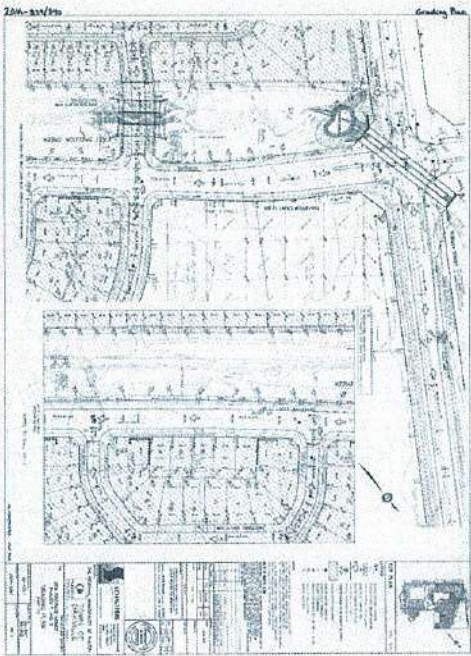
**Class Environmental Assessment
Burford Water Purification Plant Phase 2 Expansion**

AECOM

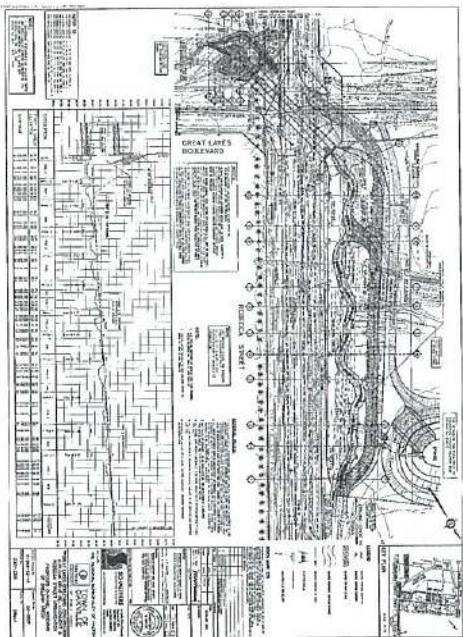


Class Environmental Assessment
Bur Oak Water Purification Plant Phase 2 Expansion

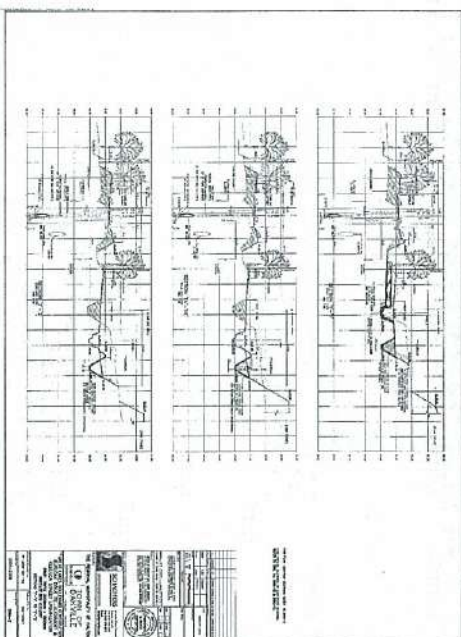
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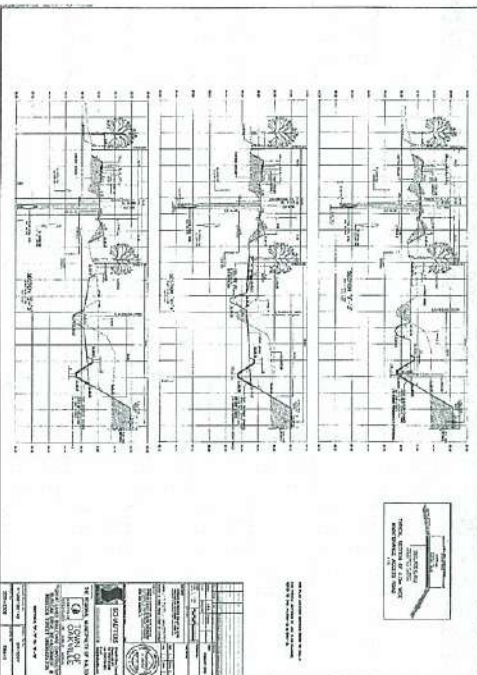
Class Environmental Assessment
Bur Oak Water Purification Plant Phase 2 Expansion



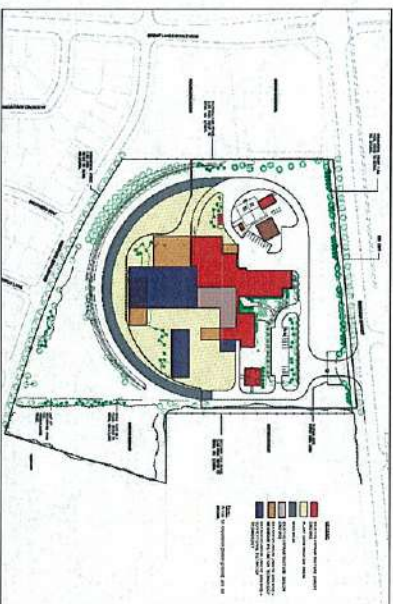
Class Environmental Assessment
Bur Oak Water Purification Plant Phase 2 Expansion



Class Environmental Assessment
Bur Oak Water Purification Plant Phase 2 Expansion



Bur oak WPP Phase 2 – Expansion and Construction Areas



Next Steps

- May 2011
- May – August 2011
- Fall 2011 (Tentatively November 30)
- Winter 2011
- Early 2012

Thank you for your participation!

Receive comments from this Public Information Centre. Confirm treatment technologies and evaluation criteria based on public input.

Develop treatment trains from short-listed options. Evaluate treatment trains based on evaluation criteria. Review impacts and mitigation measures. Select preliminary preferred treatment train for the next expansion. Develop design concept.

Public Information Centre No. 2 - Present results of the evaluation process. Present preliminary preferred design concept and obtain feedback.

Confirm preferred design concept based on comments received from PIC No. 2. Prepare Environmental Study Report and File Report on public record for 30-day review period.

Conclusion of the Class EA study.

Rodriguez, Sandra

From: Kochmar, Teodor [Teodor.Kochmar@halton.ca]
Sent: Thursday, June 09, 2011 12:07 PM
To: Nosal, Dr. Bob
Cc: Koc, Oya; Fraser MacDonald, Nichole; Rodriguez, Sandra
Subject: Burloak WPP Expansion Class EA (Halton File# PR-2581A)
Attachments: RPT- 60114069 _2861-147-00_ Burloak WPP Expansion Class EA FINAL Notice of Study Commencement 110127.pdf

Dear Dr. Nosal,

I am writing in regard to the Burloak Water Purification Plant Phase 2 Expansion Class Environmental Assessment (EA) Study that is currently being completed by Halton Region. The Ministry of Health and Long Term Care recommended that we advise you of the study in its letter dated April 27, 2011.

Please find attached a copy of the Notice of Commencement for the project, which was mailed to project stakeholders, including the Ministry of Health and Long Term Care, on February 1, 2011.

An initial Public Information Centre (PIC) for the Class EA was held on Thursday, April 28, 2011. The PIC allowed stakeholders to learn more about the project and helped the project team gain feedback on the proposed water purification technology options, as well as design concepts.

A second PIC is planned for the fall of 2011 to present results of the evaluation methodology, the preliminary recommended alternative design concept, and the potential impacts and proposed mitigation measures to be implemented during construction.

We have added you to the stakeholder contact list for this project and will continue to advise you of progress on the Class EA study, including providing an invitation to the second PIC.

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could leave us your comments.

Please do not hesitate to contact myself (905-825-6000 extension 7637, teodor.kochmar@halton.ca) or Oya Koc, P.Eng., Project Manager with our consultant AECOM (905-712-6998, oya.koc@aecom.com) if you have any questions or comments related to the study.

Best regards,

Teodor Kochmar, P.Eng.
Project Manager - Water Design & Construction
Public Works Department
Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1

Tel: 905-825-6000 ext. 7637

Toll Free: 1-866-442-5866

Fax: 905-825-8822

Website: www.halton.ca

<<RPT- 60114069 _2861-147-00_ Burloak WPP Expansion Class EA FINAL Notice of Study Commencement 110127.pdf>>

Burloak Water Purification Plant Phase 2, Town of Oakville

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase the capacity of the Burloak Water Purification Plant (WPP). A review of the Region's Water and Wastewater Servicing Master Plan, completed in 2004, identified the need for the new Burloak WPP to meet the demands of future development.

The 2004 Master Plan Review recommended that the Burloak WPP be constructed in phases to satisfy the water supply needs for the projected population. The Burloak WPP has a current capacity of 55,000 m³/day. An update to the Master Plan completed in 2008 identified that the next phase of expansion of the Burloak WPP is to a treatment capacity of 165,000 m³/day.

The Class EA study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007). The purpose of the Class EA study is to identify the preferred solution for increasing water treatment capacity at the plant. The study will include:

- public and agency consultation
- evaluation of alternative design concepts for the expansion
- assessment of the impacts of the proposed work
- identification of measures to mitigate potential impacts
- consideration of technical, socio-cultural, natural environmental and economic issues.

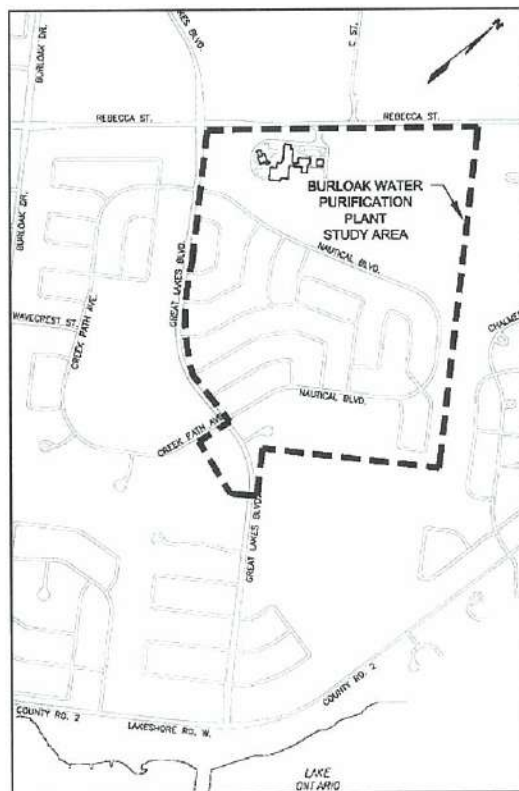
We will consult with the public and review agencies throughout the Class EA process. Two Public Information Centres (PICs) will be held in association with this study. We will publish invitation notices to the PICs in local newspapers, on the Region's website [**www.halton.ca/waterwastewaterClassEas**](http://www.halton.ca/waterwastewaterClassEas) and distribute to all individuals who express an interest in this project.

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:

Kelly Goorts
Regional Municipality of Halton
1075 North Service Road West
Oakville, Ontario L6M 2G2
Telephone: 905-825-6000 ext. 3309
Fax: 905-825-8822
Kelly.goorts@halton.ca

Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

The map below covers the approximate limits of the study area





2596 Britannia Road West
Burlington ON L7P 0G3
905.336.1158 Fax 905.336.7014
conservationhalton.ca

May 27, 2011

BY MAIL AND EMAIL

Ms Kelly Goorts
Halton Region, Public Works & Engineering
1151 Bronte Road
Oakville ON L6M 3L1

Dear Ms Goorts:

**Re: Burloak Water Purification Plant Phase 2 Expansion
Class Environmental Assessment Study
Region of Halton/Town of Oakville
Project No.: 060114069 (CH File: MPR 568)**

Staff of Conservation Halton advise that further to our review of the proposed Burloak Purification Plant Phase 2 expansion and the Class EA in 2004, which lead to the building of the plant, the following comments are provided. Staff also understand that there are no planned changes to the intake from Lake Ontario.

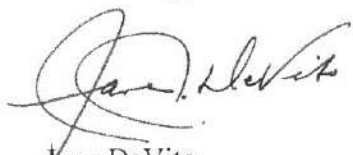
1. The plant site is not regulated, pursuant to Ontario Regulation 162/06.
2. No PPS-Natural Hazard or Natural Heritage issues have been identified.
3. No issues related to Conservation Halton's DFO Level II Agreement have been identified.
4. Conservation Halton provided comments with regards to the installation of the intake from Lake Ontario and all issues were resolved.
5. Conservation Halton provided comments with regards to a spill associated with the Regional Storm floodplain for Sheldon Creek and a berm was approved to be constructed to protect the building site from the spill.

Conclusion

Based on the above, staff no longer need to be involved in providing comments with regards to the Class EA process for the Phase 2 plant expansion and would have no objection to the approval of the Class EA document.

We trust the above is of assistance. If you require additional information please contact the undersigned at extension 235.

Yours truly,

A handwritten signature in black ink, appearing to read "Jane DeVito". The signature is fluid and cursive, with the first name "Jane" and last name "DeVito" clearly distinguishable.

Jane DeVito
Environmental Planner
JD/ 

cc: Oya Koc, AECOM, email

Rodriguez, Sandra

From: Goorts, Kelly [Kelly.Goorts@halton.ca]
Sent: Thursday, May 12, 2011 4:19 PM
To: Khan, Carlyle; Koc, Oya
Cc: Rodriguez, Sandra; Burnett, Heather; Fraser MacDonald, Nichole
Subject: RE: MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY - Burloak

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Red Category

Carlyle,

Thanks for expressing interest in this project and we will add you to the mailing list.

If you have any additional questions or concerns please do not hesitate to give me a call.

Thanks,

Kelly

Kelly Goorts, P.Eng.

Project Manager, Water Design and Construction
Regional Municipality of Halton
Tel: 905-825-6000 ext. 3309

From: Khan, Carlyle [mailto:Carlyle.Khan@veoliawater.com]
Sent: Thursday, May 12, 2011 12:23 AM
To: Goorts, Kelly; Oya.koc@aecom.com
Subject: MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY

Please add my name to the study mailing list for the Burloak Water Purification Plant Phase 2.
Thank you,

Carlyle Khan

Regional Manager
Golden Horseshoe & Atlantic Provinces
Veolia Water Solutions & Technologies Canada Inc.
2000 Argentia Road, Plaza IV, Suite 430
Mississauga ON L5N 1W1

Mobile: 416-458-8911 | Office: 905-286-4846

Fax: 905-286-0488

Email: carlyle.khan@veoliawater.com Website: <http://www.veoliawaterst.ca/en/>

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Thank you

Rodriguez, Sandra

From: Goorts, Kelly [Kelly.Goorts@halton.ca]
Sent: Monday, May 09, 2011 5:58 PM
To: Jane De Vito
Cc: Rodriguez, Sandra; Koc, Oya; Weston, Jacqueline; Kochmar, Teodor
Subject: RE: Burloak Water Purification Plant Expansion EA Oakville (CH MPR 568)
Attachments: ClassEA_Burloak_Phase2_PIC_DisplayBoards.pdf

Jane,

I have attached the PIC boards for your reference and review to help provide you the information to date we have for Burloak.

The next stage in the process which we would really appreciate your feedback and input on is how the residuals will be handled at Burloak. Currently additional background review is happening here, as well as some technical review. This will be happening over the next month and I can provide you more information as it becomes available. I was wondering if we could start looking at scheduling a meeting for early July to review this data. I know it is a while out, but with summer holidays playing in there I thought it might help to have it booked ahead of time.

Please let me know what possible dates work for you and if you require any clarification on the above slides.

Thanks,

Kelly

Kelly Goorts, P.Eng.
Project Manager, Water Design and Construction
Regional Municipality of Halton
Tel: 905-825-6000 ext. 3309

From: Jane De Vito [<mailto:jdevito@hrca.on.ca>]
Sent: Monday, May 09, 2011 11:39 AM
To: Goorts, Kelly
Subject: FW: Burloak Water Purification Plant Expansion EA Oakville (CH MPR 568)

Hello Kelly,

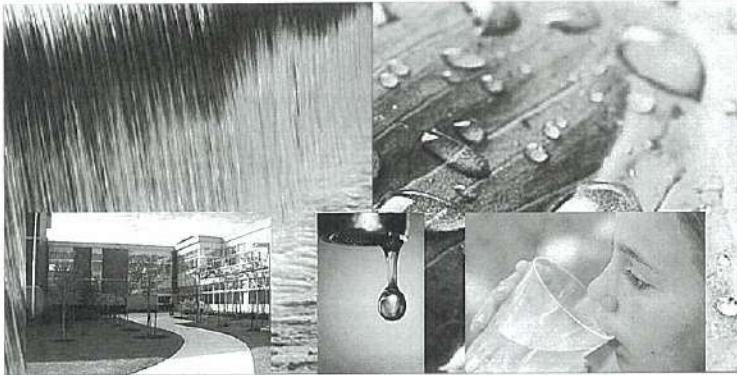
We have discussed this today and would like some details as to what works will be required for this expansion. This will help us to determine our comments and which staff will need to be involved in any future meeting.

Thanks,
Jane

Jane I. De Vito
Environmental Planner
Watershed Management Services
Conservation Halton
2596 Britannia Road West
Burlington, Ontario L7P 0G3
(905) 336-1158 ext. 235
jdevito@hrca.on.ca

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Thank you



Serving our Communities and our Environment



Class Environmental Assessment for
Burloak Water Purification Plant
Phase 2 Expansion
Public Information Centre No.1

Welcome

Class Environmental Assessment
Burloak Water Purification Plant
Phase 2 Expansion
Public Information Centre No.1

- Please sign in on the sheet provided.
- Please review display materials.
- Our representatives will be pleased to discuss the study with you, or any questions or concerns that you may have.
- Comment sheets are provided. Please complete the comment sheet and drop it in the Comment Box tonight, or return it to the contact people provided in the Comment Sheet by **May 13, 2011**.



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.2



Why are we here tonight?

- Halton Region is undertaking a Schedule "C" Municipal Class Environmental Assessment (Class EA) study to select the preferred alternative for the expansion of the Burloak Water Purification Plant (WPP), in the Town of Oakville.
- The expansion of the existing Burloak WPP is necessary to satisfy Halton's projected water demands.
- Public participation is an integral part of the Class EA study process. We encourage you to review the information presented tonight and provide us with any comments or concerns which you may have.



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.3



Objectives of this Public Information Centre

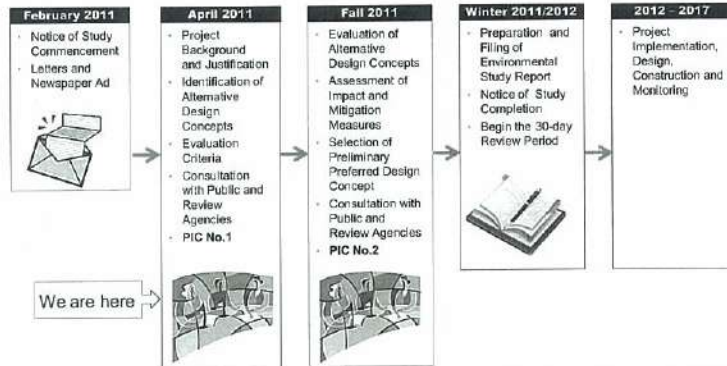
- To introduce the project to the public and review agencies
- To provide information on the activities to be undertaken under the Class Environmental Assessment process
- To provide the project background and history
- To review the alternative treatment technologies under consideration
- To review the results of the preliminary screening of alternative treatment technologies
- To present the proposed evaluation criteria to be used when evaluating the alternative treatment trains
- To receive input and suggestions from the public and interested review agencies



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.4



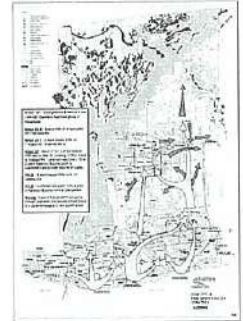
Overview of Activities under the Class Environmental Assessment Process



Project Background

- The 2002 Halton Water and Wastewater Master Plan Review identified the need for the Burloak Water Purification Plant (WPP).
- The Burloak WPP was to be built in phases, with the first phase providing a capacity of 55 ML/d (about 22 olympic sized swimming pools). Timing and additional capacity requirements for the next expansions would be determined through reviews to the Region Master Plan.
- The 2008 Master Plan Update identified that next capacity expansion of the Burloak WPP would be required by 2016 to meet planning projections to 2021.
- The Region is currently undertaking the Sustainable Halton Water and Wastewater Servicing Master Plan Class EA study. This Master Plan will provide the servicing infrastructure strategy to serve the existing and future residents/business up to 2031.

South Halton Preliminary Preferred Water Servicing Strategy



Burloak Water Purification Plant – Plant History

- The need for the Burloak Water Purification Plant (WPP) was identified in the 2002 Master Plan Review.
- A Class Environmental Assessment (Class EA) Study was completed in 2004 to select the preferred location and treatment process for the new plant. Consultation with the public and review agencies was undertaken as part of the 2004 study.
- Detailed design of the new plant was completed in 2006.
- Construction of the plant commenced in 2006.
- The plant started operating in 2009 with a capacity of 55 ML/d.

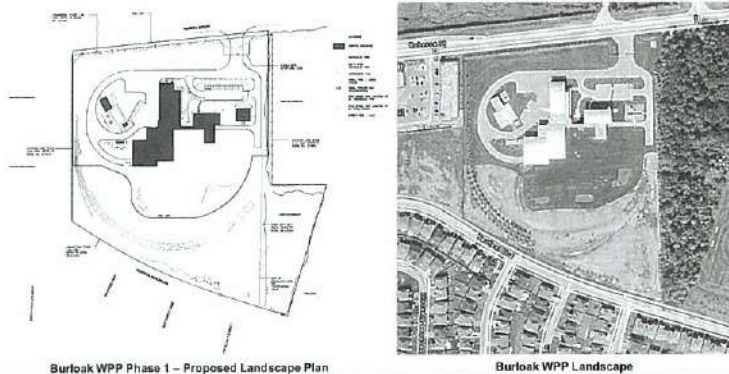


Burloak Water Purification Plant

Burloak WPP Phase 1 – 2004 Class EA Study Commitments

- Potential architectural looks for the new plant were shown to the public.
- Landscaping and architectural features would be implemented to provide a visual improvement of the area.
- Landscape plans to include adequate vegetated buffer areas, with berms where appropriate.
- A Citizen's Advisory Committee would be created to provide input on architectural features and landscaping.
- The woodlot to the east of the plant would not be disturbed.
- All traffic would avoid the residential neighbourhood to the south of the plant.
- Specified noise limits not to be exceeded.
- None of the selected processes would generate odour.
- Public roadways would be kept clean and free of mud.

Burloak WPP Phase 1 – Landscape Plan



Burloak WPP Phase 1 – Proposed Landscape Plan

Burloak WPP Landscape

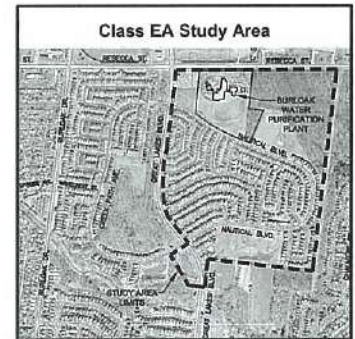


Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
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Class EA Objective and Study Area

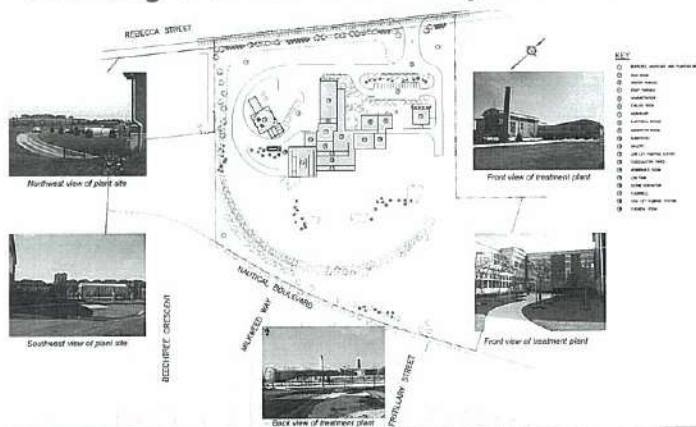
- The ongoing Sustainable Halton Master Plan has estimated that the Burloak WPP will need to be expanded by 2017 in order to satisfy the water demand projections.
- The objective of the Class EA study is to select the preferred design concept for the next expansion of the Burloak WPP.
- The preferred design concept should be sustainable, technically and environmentally sound and economically mindful in terms of capital and operating costs.



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
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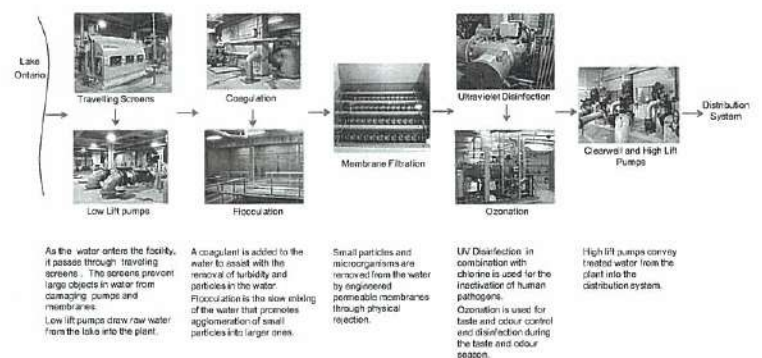
Existing Burloak WPP Layout



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Burloak Water Purification Plant Phase 2 Expansion
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How is the Water Treated at the Burloak WPP?



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
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Panel No.12

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Treatment Process Selection for the Next Expansion

- An evaluation methodology has been developed to assist in the selection of the preferred treatment process for the next expansion.
- The main steps in the evaluation methodology are:
 - Step 1: Develop water quality treatment objectives for this expansion.
 - Step 2: Develop a long list of treatment technologies available.
 - Step 3: Develop preliminary screening criteria and complete preliminary screening. It identifies only those technologies that are feasible for this project and eliminates unrealistic options.
 - Step 4: Develop treatment trains based on a short-list of feasible treatment technologies.
 - Step 5: Develop detailed evaluation criteria and complete detailed evaluation of treatment trains.
 - Step 6: Prepare a cost benefit analysis of the treatment trains and select the preferred treatment train.
- Results from Steps 1 to 3 are shown in the next panels.
- Steps 4 to 6 will be completed in the next stages of the Class EA study.

Water Quality Treatment Objectives

- Water quality treatment objectives have been developed as part of this Class EA study. The treatment objectives for this expansion meet or exceed the Ontario Drinking Water Quality Standards, Objectives and Guidelines.
- Water quality treatment objectives have been grouped in seven main categories that include:
 - Pathogen Control
 - Disinfection By-products (DBPs) Control
 - Organics Control
 - Distribution System Water Stability
 - Inorganics Control
 - Emerging Contaminants
 - Aesthetics (Color and Taste & Odour)
- Process treatment trains will be developed under the premise that every train meets or exceeds these water quality treatment objectives.

Main Treatment Process – Alternative Technologies (1 of 3)

- Alternatives for Particulate Removal:
 - **Conventional Filtration**; a method of treating water to remove particulates. It consists of the addition of coagulant chemicals to promote formation of larger and heavier particles that are removed in the clarification tanks. Remaining solids in the water are further removed in filters.
 - **Direct Filtration**; similar to conventional filtration with the exception that the clarification tanks are eliminated; thus, the filters are responsible for removing all contaminants from the water.
 - **Membrane Filtration**; is a physical separation process in which particulate matter is rejected by an engineered permeable membrane.



Immersed Membranes

Main Treatment Process – Alternative Technologies (2 of 3)

- Alternatives for Primary Disinfection (Pathogen Inactivation):
 - **Chlorination**; is the addition of chlorine to the water to inactivate human pathogens present in water.
 - **Ultraviolet (UV) Irradiation**; is a physical process that uses ultraviolet irradiation to prevent the cellular replication of organisms. UV light is emitted through a series of lamps located in enclosed contactors.
 - **Ozonation**; is a process that destroys bacteria and other microorganisms present in water through an infusion of ozone, a gas produced by subjecting oxygen molecules to high electrical voltages.



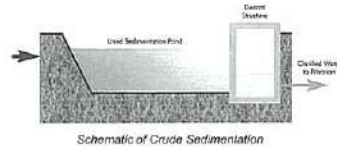
Chlorinators - Gas Cylinders



Ozone System

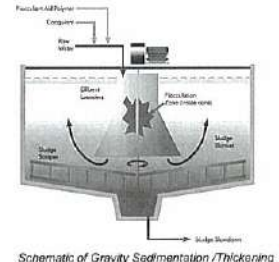
Residuals Treatment Process – Alternative Technologies (1 of 4)

• Alternatives for Clarification/Thickening:

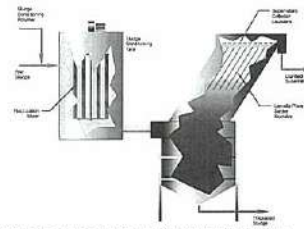


Crude Sedimentation/Thickening:
Raw sludge is discharged into concrete tanks, where the solids settle by gravity to the bottom of the tanks and clarified water forms on the top.

Gravity Sedimentation/Thickening:
Polymer is added to the sludge to promote the formation of larger particles within the tank. Sludge enters the tank and is allowed to settle and compact. The thickened sludge is collected and withdrawn at the bottom of the tank.



Schematic of Gravity Sedimentation /Thickening



Schematic of Plate Settlers Sedimentation /Thickening

Plate Settlers Sedimentation/Thickening:
As sludge travels through the inclined plates, the solids settle onto and slide down from each plate to the sludge tank in the bottom, where the sludge is further thickened before being removed.

Main Treatment Process – Alternative Technologies (3 of 3)

• Alternatives for Taste & Odour Control:

- **Ozone;** is a very strong oxidant capable of destroying many taste and odour compounds in water.
- **UV Oxidation;** involves the use of UV irradiation and hydrogen peroxide, which results in the formation of powerful oxidants able to rapidly destroy taste and odour causing compounds.
- **Powdered Activated Carbon (PAC);** is used to remove taste and odour causing compounds in water by attracting these compounds to the surface of the activated carbon in the form of powder.
- **Granular Activated Carbon (GAC);** also removes taste and odour causing compounds in water by attraction to the activated carbon media, but in this case the carbon is in the granular form and typically used in contactor beds or in filters.



UV Reactor



GAC Filter Bed



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
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Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
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Panel No.18

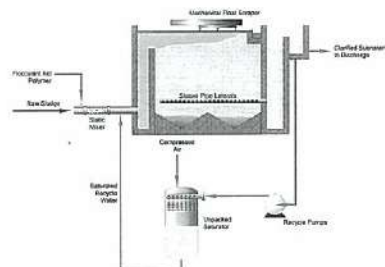
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Residuals Treatment Process – Alternative Technologies (2 of 4)

• Alternatives for Clarification/Thickening (cont'd):

Dissolved Air Flotation Clarification/Thickening:

Involves both clarification and flotation. Air bubbles, introduced to the water, attach to particulate matter present in the water and float to the surface of the tank forming a layer of sludge, which is scrapped off the surface.

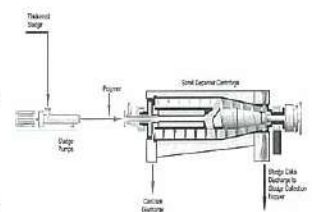


Schematic of Dissolved Air Flotation Clarification /Thickening

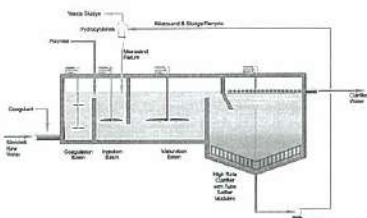
Residuals Treatment Process – Alternative Technologies (3 of 4)

• Alternatives for Dewatering/Drying (cont'd):

- **Drying Beds;** involves placing the sludge on shallow concrete basins filled with sand and gravel or an impervious material for subsequent drainage of water from the sludge through the filter material.
- **Dewatering Lagoons;** involves discharging sludge into the lagoons from which the solids are separated by gravity settling. As the lagoon fills with sludge, natural settling occurs on the bottom of the lagoon and clarified sludge can be transferred away.
- **Centrifuges;** whereby sludge is rotated at high speeds to increase the gravitational forces applied to it, which improves the solids/liquid separation process.



Schematic of Centrifugation Dewatering/Drying



Schematic of Actiflo® Clarification /Thickening

(Actiflo®) Clarification/Thickening
Uses of microsand to accelerate the settling of particles in the bottom of the tank, forming a layer of sludge. The sludge is scraped from the bottom and pumped into hydrocyclones where microsand is recovered for reuse. Clarified water is collected at the top for further processing and disposal.



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.19

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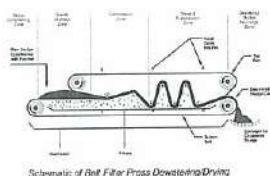
Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.20

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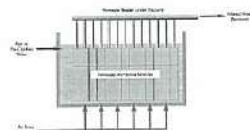
Residuals Treatment Process – Alternative Technologies (4 of 4)

Alternatives for Dewatering/Drying (cont'd):

- **Belt Filter Presses**; involves the dewatering of thickened sludge through double moving belts that combine drainage and compression.
- **Static Filter Presses**; involves the squeezing of sludge between two filter cloths attached to the inside of concave plates mounted on a frame. The frames are pressed together forcing the liquid through the filter cloth and plate outlet, leaving a dry cake behind. The plates are then separated and the sludge removed.



Schematic of Belt Filter Press Dewatering/Drying



Schematic of Typical Immersed Membrane Filtration

Alternative for Secondary Membrane Filtration

- **Membrane Filtration**; membranes can also be used for processing of the plant residuals by physical rejection of particulate removals from membranes.

Main Treatment Technologies – Preliminary Screening Criteria

- Preliminary screening criteria were developed to examine the long list of main treatment technologies and identify only those that are feasible. Screening criteria for the main treatment technologies included:

- **Compliance:**
 - Alternative must be able to continuously meet or exceed the proposed treatment objectives and provide a multi-barrier approach
- **Technical Feasibility:**
 - Alternative must be compatible with existing infrastructure and treatment processes
 - Alternative must enable the project to be completed within the specified timeframe
- **Capacity:**
 - Alternative must be able to meet the required design treatment capacity and maximize the ultimate site capacity



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.21



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.22



Main Treatment Technologies – Preliminary Screening Results

Alternative Treatment Technologies	Preliminary Screening Criteria			Recommendation		
	Compliance	Technical Feasibility	Capacity			
Particulate Removal	Conventional Filtration	✓	✓	✓	To be carried forward for further evaluation, assuming that plate settlers be used for clarification purposes.	
	Direct Filtration	✓	✓	✗	Not recommended for further evaluation. Alternative does not provide multi-barrier approach as sedimentation process is eliminated. Performance of the technology may be compromised during high raw water turbidity events.	
	Membrane Filtration	✓	✓	✓	✓	To be carried forward for further evaluation.
Primary Disinfection	Chlorination	✗	✓	✗	Not recommended for further evaluation. Chlorine alone cannot achieve the required inactivation for Cryptosporidium. Ability to maximize ultimate site capacity may be compromised.	
	UV	✗	✓	✓	Not recommended for further evaluation. UV alone cannot achieve the required inactivation for viruses.	
	Ozonation	✓	✓	✓	✓	To be carried forward for further evaluation.
Taste and Odour Control	Ozonation	✓	✓	✓	✓	To be carried forward for further evaluation.
	UV Oxidation	✓	✓	✓	✓	To be carried forward for further evaluation.
	PAC	✓	✗	✓	Not recommended for further evaluation. High impact to the residuals facilities and operational complexity. PAC could potentially foul/stress membranes, if selected as the preferred technology.	
	GAC	✗	✓	✓	Not recommended for further evaluation. GAC compromises the ability to continuously meet the T&O objective and the multi-barrier approach.	



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.23



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No.1
Panel No.24



Residuals Treatment Technologies – Preliminary Screening Criteria

- Preliminary screening criteria were developed to examine the long list of residuals treatment technologies and identify only those that are feasible. Screening criteria for residuals treatment technologies included:

- **Technical Feasibility:**
 - Alternative must have the ability to operate under existing climatic conditions
 - Alternative must provide operational flexibility
 - Alternative must have the ability to be implemented within available space on-site
 - Alternative must provide proven track record

Residuals Treatment Technologies – Preliminary Screening Results (1 of 2)

Alternative Treatment Technologies	Preliminary Screening Criteria				Recommendation
	Operational for Climatic Conditions	Operational Feasibility	Fit on site	Proven Track Record	
Clarification/Thickening	✓	✓	X	✓	Not recommended for further consideration. The large footprint requirement does not meet existing space limitations on-site.
	✓	✓	X	✓	Not recommended for further consideration. The large footprint requirement does not meet existing space limitations on-site.
	✓	✓	✓	✓	To be carried forward for further evaluation.
	✓	✓	✓	✓	To be carried forward for further evaluation.
	✓	✓	X	✓	Not recommended for further consideration. The large footprint requirement does not meet existing space limitations on-site.

Residuals Treatment Technologies – Preliminary Screening Results (2 of 2)

Alternative Treatment Technologies	Preliminary Screening Criteria				Recommendation
	Operational for Climatic Conditions	Operational Feasibility	Fit on site	Proven Track Record	
Dewatering/Drying	X	✓	X	X	Not recommended for further consideration. Inability to perform well under all climatic conditions. The large footprint requirement does not meet existing space limitations on-site. Technology not commonly used in Canada.
	X	✓	X	✓	Not recommended for further consideration. Inability to perform well under all climatic conditions. The large footprint requirement does not meet existing space limitations on-site.
	✓	✓	✓	✓	To be carried forward for further evaluation.
	✓	✓	✓	✓	To be carried forward for further evaluation.
	✓	X	✓	X	Not recommended for further consideration. Technology is extremely labor intensive and unheard of in Canada.
Membrane Filtration	✓	✓	✓	✓	To be carried forward for further evaluation.

Main Treatment Process Selection – Detailed Evaluation Criteria

- Evaluation criteria and sub-criteria to be used when evaluating main treatment process trains include:

Water Quality Considerations:

- Pathogen control
- Minimize Disinfection By-Products
- Organics removal
- Water stability in distribution system
- Minimize aluminum residuals
- Flexibility to respond to Emerging Contaminants
- Ability to meet Aesthetics Objectives
- Flexibility for future objectives
- Flexibility to respond to variable raw water quality

Social Considerations:

- Minimize footprint and site impacts/architectural aesthetics
- Minimize truck traffic (construction and operation)
- Minimize noise
- Minimize odour

Technical Considerations:

- Compatibility with existing system
- Flexibility for expansion
- Operation and maintenance requirements
- Process complexity
- Proven track record
- Safety requirements
- Ability to maximize ultimate site capacity/Compatibility with existing site
- Ease of implementation
- Process robustness and redundancy

Natural Environmental Considerations:

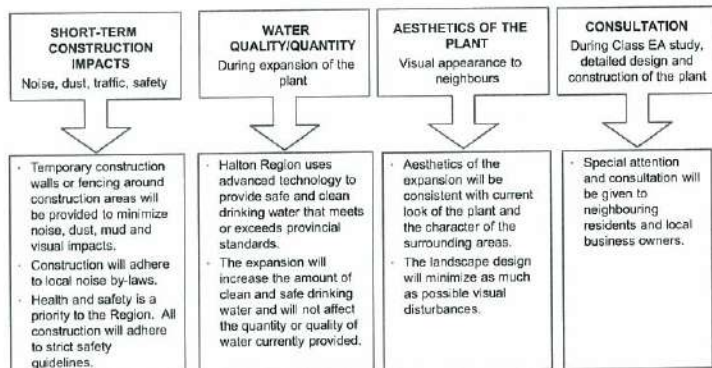
- Minimize air emissions
- Minimize residuals impacts

Residuals Treatment Process Selection – Detailed Evaluation Criteria

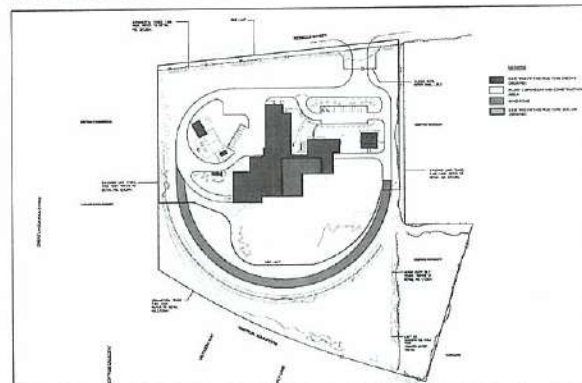
- Evaluation criteria to be used when evaluating residual treatment trains include:

- Operational and maintenance requirements
- Ability to perform given existing sewer systems limitations
- Discharge water quality and quantity
- Minimize odour, noise and truck traffic
- Aesthetic concerns (footprint and building height)
- Process robustness
- Minimize chemical usage
- Ability to recycle to head of the plant

Mitigation Measures



Burloak WPP Phase 2 – Expansion and Construction Areas



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No. 1
Panel No. 29

AECOM



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No. 1
Panel No. 30

AECOM

Next Steps

- May 2011: Receive comments from this Public Information Centre. Confirm treatment technologies and evaluation criteria based on public input.
- May – August 2011: Develop treatment trains from short-listed options. Evaluate treatment trains based on evaluation criteria. Review impacts and mitigation measures. Select preliminary preferred treatment train for the next expansion. Develop design concept.
- Fall 2011: Public Information Centre No. 2 - Present results of the evaluation process. Present preliminary preferred design concept and obtain feedback.
- Winter 2011: Confirm preferred design concept based on comments received from PIC No. 2. Prepare Environmental Study Report and File Report on public record for 30-day review period.
- Early 2012: Conclusion of the Class EA study.

Thank you for your participation!



Class Environmental Assessment
Burloak Water Purification Plant Phase 2 Expansion
Public Information Centre No. 1
Panel No. 31

AECOM



Ontario

**Ministry of Health
and Long-Term Care**

Public Health Division
Public Health Protection &
Prevention Branch
11th Floor, 1075 Bay Street
Toronto ON M5S 2B1

Telephone: 416-327-7290
Facsimile: 416-327-0984

**Ministère de la Santé
et des Soins de longue durée**

Division de la santé publique
Direction de la protection de la santé publique
et de la prévention
11^e étage 1075, rue Bay
Toronto ON M5S 2B1

Téléphone: 416-327-7290
Télécopieur: 416-327-0984

HALTON REGION

MAY 2 - 2011

PLANNING SERVICES

April 27, 2011

Ms. Kelly Goorts, P.Eng.
The Regional Municipality of Halton
Halton Region
Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1

Dear Ms. Goorts:

Re: Burloak Water Purification Plant Class Environmental Assessment Study

Thank you for your e-mail with regard to the above Environmental Assessment (EA).

Public Health Protection and Prevention Branch is interested in the public health aspects of this EA and wishes to be kept informed of any further developments. The local Board of Health has a more direct role in reviewing these matters and recommend that you advise them of this EA. For your convenience we have provided the contact information for the appropriate local Medical Officer of Health for the area in which the EA is located.

Dr. Robert Nosal
Medical Officer of Health
Halton Region Health Department
1151 Bronte Road
Oakville ON L6M 3L1

*- Contact has been added
to agency contact list*

Yours truly

Paul McCue
Senior Program Consultant
Environmental Health Section

*- Contact info has been
changed in agency contact list*

c: Dr. Robert Nosal, Medical Officer of Health, Halton Region Health Department

Rodriguez, Sandra

From: Rodriguez, Sandra
Sent: Wednesday, April 27, 2011 9:45 AM
To: 'rrobinson@oakville.ca'
Cc: Koc, Oya; 'Goorts, Kelly'
Subject: Burloak Water Treatment Plant Expansion Class EA - Public Information Centre April 28, 2011

Good morning Ralph,

This is in response to your inquire about the events to take place at the upcoming public meeting on Thursday, April 28, 2011.

The format of the meeting is a drop-in, there will not be a formal presentation at this meeting. Display boards will be presented with information about the project, what we have done so far and the next steps. Our project team, made up of representatives from the Region and the Consultant, will be at the meeting to answer any questions and listen to comments/suggestions from 7:00 to 9:00 pm at the meeting room. The plant tours will be conducted from 7:30 to 8:00 pm, by the plant operators. While the operators are giving the tour around the plant, the other project team members will remain at the meeting room and be available to interact with members of the general public who are not interested in the tour.

Hope it provides a better description of what is to happen tomorrow night.

Regards,

Sandra Rodriguez, M.Eng., P.Eng.
Project Engineer
sandra.rodriguez@aecom.com

AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario. L5R 3E9
Direct Line: 905.712.6999 Fax: 905.501.0181
Main Line: 905.501.0641
www.aecom.com

Rodriguez, Sandra

From: Goorts, Kelly [Kelly.Goorts@halton.ca]
Sent: Tuesday, April 26, 2011 7:57 PM
To: Koc, Oya; Rodriguez, Sandra
Subject: Burloak Water Purification Plant Phase II Meeting - Information

FYI - Correspondence with Councillor Sharman.

Kel

From: Sharman, Paul [mailto:SharmanP@burlington.ca]
Sent: Tuesday, April 26, 2011 6:06 PM
To: Borchetta, Nancy
Cc: Fitzpatrick, Rosemary; Goorts, Kelly
Subject: RE: Burloak Water Purification Plant Phase II Meeting - Information

Nancy,
Thank you for providing the presentation. I really appreciate the degree to which the team has gone to explain what is happening, the alternative technologies being considered and on other aspects of the project.

I do not have any questions at the moment but I feel better equipped to respond to questions. I know you will keep us informed as you make progress.

Thanks again
Paul Sharman

From: Borchetta, Nancy [mailto:Nancy.Borchetta@halton.ca]
Sent: Thursday, April 21, 2011 9:12 AM
To: Sharman, Paul
Cc: Fitzpatrick, Rosemary; Goorts, Kelly
Subject: Burloak Water Purification Plant Phase II Meeting - Information

Councillor Sharman,

Attached you shall find the presentation which was delivered at the Burloak Water Purification plant's neighbours' meeting on Tuesday April 19 and which also will be presented at the Public Information Centre to be held on Thursday April 28.

Kelly Goorts, P.Eng., Water Design & Construction Project Manager, is the Region's representative on the project and she would be happy to meet with you if you would like to receive any additional information about the project. Please feel free to contact me to schedule a meeting if it is required.

For your information, Kelly's contact information is:
Telephone: 905-825-6000, extension 3309
Email: kelly.goorts@halton.ca

Thank you,

Nancy Borchetta

Administrative Assistant to the Director of Water Services
Water Services Division, Public Works Department
The Regional Municipality of Halton
1151 Bronte Road
Oakville, ON L6M 3L1
(T) 905-825-6000, ext. 7948, (F) 905-825-0267
Email: Nancy.Borchetta@halton.ca

From: Sharman, Paul [mailto:SharmanP@burlington.ca]
Sent: Monday, April 18, 2011 5:41 PM
To: Fitzpatrick, Rosemary; Borchetta, Nancy
Subject: RE: Burloak Water Purification Plant Phase II Meeting - April 6, 2011

Thanks for following up Nancy/Rosemary. I had intended to attend the Burloak Water Purification Plant Phase II Meeting but as I look at the conflicts on my schedule it is pretty clear I won't be able to.

I would like to receive the information, though, please.

Paul

From: Fitzpatrick, Rosemary
Sent: Monday, April 18, 2011 3:43 PM
To: Borchetta, Nancy
Cc: Sharman, Paul
Subject: RE: Burloak Water Purification Plant Phase II Meeting - April 6, 2011

Thanks Nancy. Councillor Sharman still has other commitments both evenings but I left the meeting dates in his calendar in case he can drop in. I have copied him on this email should he wish to receive more information on the Burloak Water Purification Plant.

Regards,
Rosemary

From: Borchetta, Nancy [mailto:Nancy.Borchetta@halton.ca]
Sent: Monday, April 18, 2011 3:22 PM
To: Fitzpatrick, Rosemary
Subject: RE: Burloak Water Purification Plant Phase II Meeting - April 6, 2011

Hi Rosemary,

Yes the meetings are still happening. Councillor Sharman is welcome to attend to (if he is now able to) to hear information about the Burloak plant which is in Oakville's Ward 1 neighbouring with Burlington's Ward 5.

On the other hand, if Councillor Sharman is not able to attend but would like to receive information from the Project Manager assigned to the Burloak Water Plant, we can arrange that as well.

Thanks,
Nancy

From: Fitzpatrick, Rosemary [mailto:FitzpatrickR@burlington.ca] **On Behalf Of** Sharman, Paul
Sent: Monday, April 18, 2011 3:17 PM

To: Borchetta, Nancy

Subject: RE: Burloak Water Purification Plant Phase II Meeting - April 6, 2011

Good afternoon Nancy,

These dates were not on the schedule of meetings. I am confirming that they are still a go.

Thanks,

Rosemary Fitzpatrick

*Assistant to Councillor Paul Sharman
Ward 5*

Tel: (905) 335-7600 Ext. 7454

Fax: (905) 335-7881

E-Mail: [Rosemary Fitzpatrick](#)

Webpage: [Ward 5 - Paul Sharman](#)

To register for regular Ward 5 News Updates visit

[Paul Sharman - Webminder Subscription](#)

From: Fitzpatrick, Rosemary

Sent: Monday, April 04, 2011 2:54 PM

To: Borchetta, Nancy; Sharman, Paul

Cc: Goorts, Kelly

Subject: RE: Burloak Water Purification Plant Phase II Meeting - April 6, 2011

Good afternoon Nancy,

Please be advised that Councillor Sharman is unable to attend a meeting this week with Councillors Johnston and Robinson as he is out of the office this week. He has further commitments on both April 19 and 28. I will place both dates in his calendar to should he have time to drop in to the neighbourhood meeting or PIC.

Regards,

Rosemary Fitzpatrick

*Assistant to Councillor Paul Sharman
Ward 5*

Tel: (905) 335-7600 Ext. 7454

Fax: (905) 335-7881

E-Mail: [Rosemary Fitzpatrick](#)

Webpage: [Ward 5 - Paul Sharman](#)

To register for regular Ward 5 News Updates visit

From: Borchetta, Nancy [mailto:Nancy.Borchetta@halton.ca]
Sent: Monday, April 04, 2011 2:47 PM
To: Sharman, Paul
Cc: Goorts, Kelly
Subject: Burloak Water Purification Plant Phase II Meeting - April 6, 2011

Councillor Sharman,

As the boundary of your Ward is in close proximity to the Burloak Water Purification Plant located at 3380 Rebecca Street in Oakville, Regional staff have requested that I contact you to determine if you would be interested in attending a meeting with Councillors Johnston and Robinson on **Wednesday April 6 from 3:00 to 4:30 p.m. at the Burloak Water Treatment Plant** (3380 Rebecca Street) to provide each of you with an update on two upcoming meetings with the public.

Details of the meetings with the public follows:

Halton Region will be holding a Public Information Centre and neighbourhood meeting for the proposed the Burloak Water Purification Plant Expansion as part of the Class Environmental Assessment approval process. The Public Information Centre and neighbours' meeting will allow the project team to inform the residents and local business about the project and allow them to give staff feedback on the proposed water purification technology options and design concepts.

The Burloak Water Treatment Plant neighbourhood meeting is intended to be one vehicle of communication between Halton Region and the plant's neighbours to provide information on issues related to the Burloak Water Plant Phase II project. The neighbourhood meeting will be held **Tuesday, April 19, 2011 from 7:00 p.m. to 9:00 p.m., with a facility tour at 7:30 p.m., at the Burloak Water Purification Plant, 3380 Rebecca Street, Oakville.**

A letter will be delivered to neighbourhood residents during the week of April 4, 2011 to notify them of the neighbourhood meeting.

The Public Information Centre will be held on **Thursday, April 28, 2011 from 7:00 p.m. to 9:00 p.m., with facility tours at 7:30 p.m. and 8:00 p.m., at the Burloak Water Purification Plant, 3380 Rebecca Street, Oakville.** This Public Information Centre will provide residents and other interested parties the opportunity to discuss and review proposed project details with representatives from Halton Region.

Advertisements will appear in the Oakville Today, Oakville Beaver and Burlington Post newspapers on April 15 and 22, 2011. A letter will also be delivered to residents within in the project area during the week of April 4, 2011 to advise of the Public Information Centre.

Kelly Goorts, P.Eng., is the Project Manager for this phase of the Burloak plant and can be reached at 905-825-6000, extension 3309 should you have any questions or concerns.

Thank you,

Nancy Borchetta

Administrative Assistant to the Director of Water Services

Water Services Division, Public Works Department

The Regional Municipality of Halton

1151 Bronte Road

Oakville, ON L6M 3L1

(T) 905-825-6000, ext. 7948, (F) 905-825-0267

Email: Nancy.Borchetta@halton.ca

From: Borchetta, Nancy

Sent: Friday, April 01, 2011 9:09 AM

To: Johnston, Alan; Robinson, Ralph

Cc: Goorts, Kelly

Subject: Meeting Confirmed - - re: Burloak Phase II

Councillors Johnston and Robinson,

Please consider this email confirmation that update meeting on the upcoming Burloak Phase II neighbours' meeting and information review, will be held on Wednesday April 6 from 3:00 to 4:30 p.m., at the Burloak Water Treatment Plant, located at 3380 Rebecca Street, Oakville (in the training room).

Thank you,

Nancy Borchetta

Administrative Assistant to the Director of Water Services

Water Services Division, Public Works Department

The Regional Municipality of Halton

1151 Bronte Road

Oakville, ON L6M 3L1

(T) 905-825-6000, ext. 7948, (F) 905-825-0267

Email: Nancy.Borchetta@halton.ca

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Thank you

Rodriguez, Sandra

From: Koc, Oya
Sent: Monday, April 11, 2011 3:11 PM
To: 'Goorts, Kelly'; Rodriguez, Sandra
Subject: FW: Project No. 060114069; Burloak Water Purification Plant Expansion (Phase 2)

Oya

From: Leslie Rich [<mailto:lrich@conservationontario.ca>]
Sent: April 11, 2011 9:54 AM
To: Koc, Oya
Subject: Project No. 060114069; Burloak Water Purification Plant Expansion (Phase 2)

Good morning,

Conservation Ontario is in receipt of the above Notice of Study Commencement. We advise that future correspondence should be forwarded to Conservation Halton for comment, as appropriate.

Kind regards,

Leslie Rich
Policy and Planning Officer
Conservation Ontario
120 Bayview Parkway
P.O. Box 11
Newmarket, Ontario L3Y 4W3
905-895-0716 ext 228
conservationontario.ca



March 31, 2011

Public Works
Water Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-0267

Name
Address
Address

Dear XXX:

You may be aware that the Burloak Water Purification Plant will be undergoing a scheduled expansion in the future. In preparation for the expansion, Halton Region is now completing a Class Environmental Assessment (EA) study. As part of the Class EA approval process Halton Region will be hosting a public information centre on April 28, 2011 to allow you to learn more about the project and give us your feedback on the proposed water purification technology options, as well as letting us know what design concepts are important to you.

Date: Thursday, April 28, 2011
Time: 7:00 – 9:00 pm
Location: Burloak Water Purification Plant
3380 Rebecca Street (parking available on site)

Facility tours at 7:30 and 8:00 pm

For more information on this project, please go to www.halton.ca/EAs and click through to the Burloak Water Purification Plant Expansion Environmental Assessment page, where you could also leave us your comments.

If you are unable to attend the meeting on April 28, 2011, we would still like to hear from you. Please contact either one of the following project team members if you have any questions or comments related to the study.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Goorts".

Kelly Goorts, P.Eng.

Project Manager, Water Design and Construction
Extension: 3309
Email: kelly.goorts@halton.ca

C: Gary Carr, Halton Regional Chair
Rick Goldring, Mayor, City of Burlington
Robert Burton, Mayor, Town of Oakville
Tom Adams, Regional Councillor and Chair, Planning & Public Works Committee

A handwritten signature in blue ink, appearing to read "Oya Koc".

Oya Koc, P.Eng.

Project Manager
AECOM
Telephone: 905-712-6998
Email: oya.koc@aecom.com

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



Paul Sharman, Regional Councillor, Ward 5, City of Burlington
Alan Johnston, Regional Councillor, Ward 1, Town of Oakville
Ralph Robinson, Town Councillor, Ward 1, Town of Oakville
Patrick Moyle, CAO, Halton Region
Mitch Zamojc, P.Eng., Commissioner, Public Works, Halton Region
Kiyoshi Oka, P.Eng., Director, Water Services, Halton Region
Jacqueline Weston, P.Eng., Manager, Water Design & Construction, Halton Region
Chris Mills, P.Eng., Director, Engineering Services, Town of Halton Hills
Tom Eichenbaum, P. Eng., Director of Engineering Services, City of Burlington
Daniel Cozzi, P. Eng., Director, Engineering Services, Town of Oakville
Access Halton, Halton Region

NOTICE OF PUBLIC INFORMATION CENTRE #1

Environmental Assessment for Phase 2 of the Burloak Water Purification Plant

The Study

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase capacity of the Burloak Water Purification Plant (WPP) to meet future demands. A map of the project site is included.

A Class EA study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment process (October 2000, as amended in 2007).

The purpose of the Class EA study is:

- 1) To identify the preferred solution for increasing water treatment capacity at the plant; and
- 2) To recommend the preferred design for the expansion.

The study will include:

- Public and agency consultation;
- Evaluation of alternative design concepts for the expansion;
- Assessment of the impacts of the proposed work; and
- Identification of measures to mitigate impacts.

Technical, socio-cultural, natural environment and economic issues will be considered during the assessment.

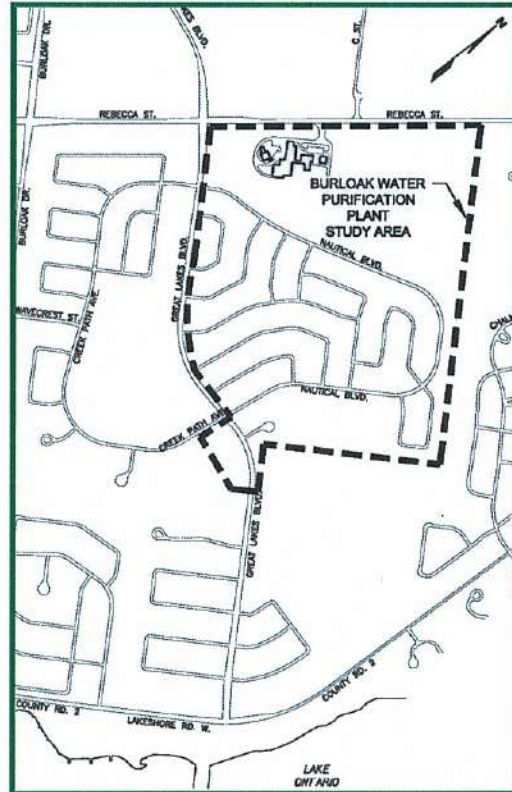
The Process

As part of the study, a Public Information Centre (PIC) is planned to allow interested persons to learn more about the project and provide comments on the proposed treatment technology alternatives and the proposed criteria for evaluating the design concepts.

Date: Thursday, April 28, 2011
Time: 7 p.m. – 9 p.m.
Location: Burloak Water Purification Plant
 3380 Rebecca Street
 (parking available on site)
 Facility tours at 7:30 p.m. and 8 p.m.

You are encouraged to attend the PIC and provide comments so that they may be included in the study. Comments received through the course of the study will be considered in finalizing the recommended design concepts for the plant expansion as well as the evaluation measures. Comments and information regarding the project are being collected 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.

If you are unable to attend, we would still like to hear from you. Please contact either of the project team members listed below if you have questions or comments, wish to obtain



more information on the project, or would like to be included on the project contact list:

Kelly Goorts
 Halton Region
 1151 Bronte Road
 Oakville, Ontario
 L6M 3L1
 Telephone: 905-825-6000 ext. 3309
 Fax: 905-825-0267
 kelly.goorts@halton.ca

Oya Koc
 AECOM
 5600 Cancross Court, Suite A
 Mississauga, Ontario
 L5R 3E9
 Telephone: 905-712-6998
 Fax: 905-501-0181
 oya.koc@aecom.com

Additional information related to the study and consultation process may be obtained through the study website:

www.halton.ca/EAs

This Notice first issued on April 14, 2011



Making Halton a better place
to live, work and retire

Gary Carr
Regional Chair

March 21, 2011

Chief Allen MacNaughton
Haudenosaunee Confederacy Chiefs Council
2634 6th Line Road, R.R. #2
Ohsweken, ON
N0A 1M0

Dear Chief MacNaughton:

Project No: 060114069

**Regarding: Municipal Class Environmental Assessment Study
Burloak Water Purification Plant Expansion (Phase 2)
Notice of Study Commencement**

Halton Region, through their sub-consultants AECOM, has initiated a Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville.

The Class EA Study for this project will be undertaken in accordance with the requirements for Schedule 'C' projects under the *Municipal Class Environmental Assessment* document. The Class EA process will provide members of the public and interested review agencies with opportunities for input at key stages of the project. Two public consultation meetings will be scheduled through the course of this study. A formal invitation letter to these meetings will be forwarded to you ahead of time of these meetings.

At this time, we are enclosing a copy of the Notice of Study Commencement to advise you and/or your agency that the Class EA study for this project has been initiated. If you have any questions or comments or would like additional information on the project, please do not hesitate to contact the undersigned.

Sincerely,
AECOM Canada Ltd.



Oya Koc, P.Eng., Project Manager
Oya.koc@aecom.com

SR:tw
Encl.

March 21, 2011

Chief William K. Montour
Six Nations of the Grand River Territory
P.O. Box 5000
Ohsweken, ON
N0A 1M0

Dear Chief Montour:

Project No: 060114069

**Regarding: Municipal Class Environmental Assessment Study
Burloak Water Purification Plant Expansion (Phase 2)
Notice of Study Commencement**

Halton Region, through their sub-consultants AECOM, has initiated a Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville.

The Class EA Study for this project will be undertaken in accordance with the requirements for Schedule 'C' projects under the *Municipal Class Environmental Assessment* document. The Class EA process will provide members of the public and interested review agencies with opportunities for input at key stages of the project. Two public consultation meetings will be scheduled through the course of this study. A formal invitation letter to these meetings will be forwarded to you ahead of time of these meetings.

At this time, we are enclosing a copy of the Notice of Study Commencement to advise you and/or your agency that the Class EA study for this project has been initiated. If you have any questions or comments or would like additional information on the project, please do not hesitate to contact the undersigned.

Sincerely,
AECOM Canada Ltd.



Oya Koc, P.Eng., Project Manager
Oya.koc@aecom.com

SR:tw
Encl.

Rodriguez, Sandra

From: Rodriguez, Sandra
Sent: Thursday, March 17, 2011 10:46 AM
To: Jane De Vito
Cc: Koc, Oya; 'Goorts, Kelly'
Subject: FW: Halton Region EA Burloak Water Purification Plant Phase 2 Town of Oakville (CH File MPR 568)

Hi Jane,

Thank you very much for your interest in this Class EA study.

Just to give you some information on the upcoming activities for this Class EA project, we are now preparing for the first Public Information Centre (PIC) and a neighbours meeting, both expected to be held in the last weeks of April 2011.

Formal invitation letters to the first PIC will be sent out to all review agencies and stakeholders in our project contact list. Conservation Halton is in our contact list, so should receive an invitation letter to the PIC well in advance of the meeting.

We do understand that sometimes the time for the PICs present challenges for review agencies to attend the meetings, so we welcome the opportunity to sit with you at another time and discuss the scope of this project and its regulatory requirements. We think that perhaps sometime after PIC No.1 would be appropriate to meet with you. Please confirm whether this timing is acceptable. Meeting date and time can be confirmed later on.

Thanks a lot,

Sandra Rodriguez, M.Eng., P.Eng.
Project Engineer
sandra.rodriguez@aecom.com

AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario. L5R 3E9
Direct Line: 905.712.6999 Fax: 905.501.0181
Main Line: 905.501.0641
www.aecom.com

From: Jane De Vito [<mailto:jdevito@hrca.on.ca>]
Sent: March 2, 2011 2:19 PM
To: kelly.goorts@halton.ca; Koc, Oya
Subject: Halton Region EA Burloak Water Purification Plant Phase 2 Town of Oakville (CH File MPR 568)

Hello Kelly and Oya,

We have received the notice of study commencement for this Class EA and would like to participate as a regulatory agency. I will be the contact and if you have any further information or TAC meetings scheduled, please let me know. We would like to meet with Region staff and the consultant team if possible.

I can provide some preliminary comments as to the application of Ontario Regulation 162/06, stormwater management, our DFO/Level II Agreement and Natural Heritage for the site under separate cover.

Regards,
Jane

Jane I. De Vito
Environmental Planner
Watershed Management Services
Conservation Halton
2596 Britannia Road West
Burlington, Ontario L7P 0G3
(905) 336-1158 ext. 235
jdevito@hrca.on.ca
www.conservationhalton.on.ca

MAR - 9 2011

Oya Koc
Project Manager, AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9



Reference: 96

Re: Town of Caledon Sneath Road Bridge Rehabilitation Class Environmental Assessment

Dear Ms. Oya:

Thank you for your inquiry dated February 1, 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.

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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 Six 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:

Six Nations of the Grand River Territory P.O. Box 5000 Ohsweken, Ontario N0A 1M0	Chief William K. Montour (519) 445-2201 (Fax) 445-4208 wkm@sixnations.ca arleenmaracle@sixnations.ca
Haudenosaunee Confederacy Chiefs Council 2634 6th Line Road RR 2 Ohsweken, Ontario N0A 1M0	Chief Allen MacNaughton (519) 755-2769

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:

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	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
---	--

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 red ink, appearing to read "H. Levecque". The signature is fluid and cursive, with the first letter of the last name being a large, stylized 'L'.

Heather Levecque
Manager, Consultation Unit
Aboriginal Relations and Ministry Partnerships Division

Rodriguez, Sandra

From: Goorts, Kelly [Kelly.Goorts@halton.ca]
Sent: Thursday, March 03, 2011 5:24 PM
To: Koc, Oya
Cc: Rodriguez, Sandra; Burnett, Heather
Subject: RE: Halton Region EA Burloak Water Purification Plant Phase 2 Town of Oakville (CH File MPR 568)

Hi Oya,

Could I leave this with you to respond too or would you like me to answer this.

Thanks,

Kelly

Kelly Goorts, P.Eng.
Project Manager, Water Design and Construction
Regional Municipality of Halton
Tel: 905-825-6000 ext. 3309

From: Jane De Vito [mailto:jdevito@hrca.on.ca]
Sent: Wednesday, March 02, 2011 2:19 PM
To: Goorts, Kelly; oya.koc@aecom.com
Subject: Halton Region EA Burloak Water Purification Plant Phase 2 Town of Oakville (CH File MPR 568)

Hello Kelly and Oya,

We have received the notice of study commencement for this Class EA and would like to participate as a regulatory agency. I will be the contact and if you have any further information or TAC meetings scheduled, please let me know. We would like to meet with Region staff and the consultant team if possible.

I can provide some preliminary comments as to the application of Ontario Regulation 162/06, stormwater management, our DFO/Level II Agreement and Natural Heritage for the site under separate cover.

Regards,
Jane

Jane I. De Vito
Environmental Planner
Watershed Management Services
Conservation Halton
2596 Britannia Road West
Burlington, Ontario L7P 0G3
(905) 336-1158 ext. 235
jdevito@hrca.on.ca
www.conservationhalton.on.ca

Name of contact person
has been updated on Agency
Contact List.

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



Affaires indiennes
et du Nord Canada

www.ainc.gc.ca

Indian and Northern
Affairs Canada

www.inac.gc.ca



Votre référence - Your file

Notre référence - Our file

February 24, 2011

Oya Koc
Project Manager
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario L5R 3E9

Dear Oya Koc,

Re: Municipal Class Environmental Assessment Study, Burloak Water Purification Plant Expansion (Phase 2)

I am writing in response to your letter of February 1, 2011 addressed to Franklin Roy 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.

he's already
on contact
list

↓ Already on list ≠ contact person info

If you have any further questions please do not hesitate to contact me at (819)994-1947. Also, please note that all future requests of this nature should no longer be addressed to Josée Beauregard. Instead, could you kindly modify your distribution list to send these requests to the following destination:

Marc-André Millaire, Ontario Team
Indian and Northern Affairs
LITIGATION MANAGEMENT AND RESOLUTION BRANCH
25 Eddy Street
Gatineau, Quebec
K1A 0H4

Sincerely,



for Marc-André Millaire
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.



Canadian Environmental
Assessment Agency

Agence canadienne
d'évaluation environnementale

55 St. Clair Avenue East
Suite 907
Toronto, Ontario
M4T 1M2

55, avenue St-Clair Est
Bureau 907
Toronto (Ontario)
M4T 1M2



February 15, 2011

Oya Koc
Project Manager
AECOM Canada Ltd.
5600 Cancross Court
Suite A
Mississauga, ON L5R 3E9

Dear Ms. Koc,

Re: Burloak Water Purification Plant Expansion (Phase 2)

Thank you for your letter dated February 1, related to the above-noted project.

The *Canadian Environmental Assessment Act* (the Act) may apply to federal authorities when they contemplate certain actions or decisions in relation to a project that would enable it to proceed in whole or in part. A federal environmental assessment may be required when a federal authority: is the proponent of a project; provides financial assistance to the proponent; makes federal lands available for the project, or issues a permit, license or any other approval pursuant to any of the provisions prescribed by the *Law List Regulations*.

In the case of projects that are subject to the Ontario *Environmental Assessment Act*, if there is uncertainty as to whether the Act may also apply, the Agency can help proponents answer this question. For projects that are subject to the Act, the Agency will act as the federal environmental assessment coordinator and facilitate the involvement of the federal authorities in a co-ordinated assessment aimed at meeting all agencies' needs simultaneously.

In order for the Agency to undertake either of these roles, it must have a project description that can be distributed to various federal authorities to determine their interest in the project. It is recognized that at the early stages of the planning process, there may not be much detailed information to provide. However, proponents should try to provide some information on:

- the nature of the project and its location;
- federal decisions which may be made in relation to the project;
- whether federal funding is being contemplated or federal lands are required.

.../2



To better assist proponents, the Agency has developed an Operational Policy Statement, which provides guidance in preparing project descriptions. This is available on the Agency's website at:

http://www.ceaa-acee.gc.ca/013/0002/ops_ppd_e.htm

If your purpose in sending us notification of your project is to determine whether the *Canadian Environmental Assessment Act* applies, please be aware that simple notification will not be sufficient. A project description for the preferred alternative will be required.

Important Note: Please be aware that release of documents to the public may be part of the EA process. Information provided by you related to the EA for this project will be part of the Canadian Environmental Assessment Registry and will be made available to members of the public, if requested. A package with additional information will be provided to you upon submission of the project description. Should you provide any documents that contain confidential or sensitive information that you believe should be protected from release to the public, please contact the undersigned to obtain an Exclusion Form. This Form can be used to identify the information to be considered for exclusion from the Canadian Environmental Assessment Registry and the rationale for the exclusion.

If you have any questions regarding any of the above, please contact the undersigned at 416-952-6063.

Sincerely,

A handwritten signature in black ink, appearing to be 'JC' followed by a stylized flourish.

Jim Chan, Project Manager
Canadian Environmental Assessment Agency, Ontario Region

JC/js

Ministry of the Environment

Central Region
Technical Support Section

5775 Yonge Street, 8th Floor
North York, Ontario M2M 4J1

Tel.: (416) 326-6700
Fax: (416) 325-6347

Ministère de l'Environnement

Région du Centre
Section d'appui technique

5775, rue Yonge, 8^{ième} étage
North York, Ontario M2M 4J1

Tél. : (416) 326-6700
Télec. : (416) 325-6347



Ontario



February 10, 2010

File: EA 05-04-05

Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9

**RE: TSS Comments:
Burloak Water Purification Plant Expansion (Phase 2)
Halton Region
Municipal Class Environmental Assessment
Response to Notice of Commencement**

Dear Ms. Koc:

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 **Schedule 'C'** 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
- Dust and Noise
- 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:
 - Rare Species of flora or fauna
 - Watercourses
 - 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 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 Burlington 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 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

- 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 Dan Minkin, MOE Central Region Environmental Resource Planner and EA 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) 325-6966; I would be pleased to assist you.

Yours sincerely,



416-325-6966
Dan.Minkin@ontario.ca

Dan Minkin
Environmental Resource Planner and EA Coordinator
Air, Pesticides and Environmental Planning

- c. Tina Dufresne, Halton Peel District Office, MOE
Kelly Goorts, Regional Municipality of Halton
Central Region EA File
A & P File

Rodriguez, Sandra

From: Koc, Oya
Sent: Friday, February 11, 2011 9:29 AM
To: Rodriguez, Sandra
Subject: FW: Burloak Water Purification Plant Expansion (Phase 2)
Attachments: Burloak Water Purification Plant Expansion (Phase 2).pdf

Oya

From: Lindsay, Julius (ORC) [<mailto:Julius.Lindsay@ontariorealty.ca>]
Sent: February 11, 2011 9:27 AM
To: Kelly.goorts@halton.ca; Koc, Oya
Subject: Burloak Water Purification Plant Expansion (Phase 2)

Please see attached.

<<Burloak Water Purification Plant Expansion (Phase 2).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.



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February 10, 2011

To Oya Koc,

**RE: Municipal Class Environmental Assessment Study
Burloak Water Purification Plant Expansion (Phase 2)
Notice of Study Commencement**

Thank you for circulating Ontario Realty Corporation (ORC) on your Notice of Study 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.

Our preliminary review of your notice and supporting information indicates that ORC-managed property is not within your study area. We have no other concerns with this undertaking. Please remove ORC from your circulation list with respect to this project.

Thank you for the opportunity to provide initial comments on this undertaking. If you have any questions 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



Rodriguez, Sandra

From: Koc, Oya
Sent: Thursday, February 10, 2011 4:24 PM
To: Rodriguez, Sandra; Fraser MacDonald, Nichole
Subject: FW: Burloak Water Purification Plant Expansion (NEATS 28294)
Attachments: NWP_App_Guide_EN.pdf

Oya

From: EnviroOnt [<mailto:EnviroOnt@tc.gc.ca>]
Sent: February 9, 2011 11:22 AM
To: Koc, Oya; 'kelly.goorts@halton.ca'
Subject: Burloak Water Purification Plant Expansion (NEATS 28294)

Project No: 060114069

Hello,

Thank you for the information regarding the above referenced project. Please in future forward correspondence on this project to the undersigned.

We have reviewed the information, and note the following:

Transport Canada is responsible for the administration of the *Navigable Waters Protection Act* (NWPA), which prohibits the construction or placement of any "works" in navigable waters without first obtaining approval. If any of the related project undertakings cross or affect a potentially navigable waterway, the proponent should prepare and submit an application in accordance with the requirements as outlined in the attached Application Guide. Any questions about the NWPA application process should be directed to the Navigable Waters Protection Program at **1-866-821-6631** or NWPontario-PENontario@tc.gc.ca.

Please note that certain approvals under the *Navigable Waters Protection Act* trigger the requirement for a federal environmental assessment under the *Canadian Environmental Assessment Act* (CEAA). The proponent may therefore wish to consider incorporating CEAA requirements into the project.

Please contact us if there are any questions or concerns.

Thank you,

Environmental Assessment Coordinator
Transport Canada, Ontario Region
Environment & Engineering (PHE)
4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5
Email: EnviroOnt@tc.gc.ca





Introduction

The ***Navigable Waters Protection Act (Act)*** protects the public right to boat freely on waterways in Canada. The Act and its regulations:

- Require the pre-approval of structures (known as **works**) to be placed in, on, over, under, through, or across any navigable waters; and
- Provide a legal framework for dealing with obstacles and obstructions to navigation.

The Act was updated on March 12, 2009. You can find the Act and its regulations online at:
<http://laws.justice.gc.ca/en/N-22/>

Transport Canada's (TC) **Marine Safety, Navigable Waters Protection Program** works to:

- Protect the public right of navigation
- Ensure safety for the shared use of Canada's waterways; and
- Consider any impacts proposed works might have on the environment.

Navigable Waterways are any natural or man-made bodies of water (rivers, lakes, canals, etc.) that can be used by vessels to work, move freight, travel or enjoy pleasure activities – even if they were created for purposes other than navigation.

Get the Facts

What is a Minor Water?

Before starting construction, repairs or changes, owners should find out if their work is on a minor water or a navigable waterway. To determine if the waterway is minor you may refer to the *Minor Works and Waters (Navigable Waters Protection Act) Order* at <http://www.tc.gc.ca/marinesafety/oep/nwpp/minorworks/menu.htm>.

What is a work?

A work includes:

- Any man-made structure, devise or thing, temporary or permanent, that may limit or prevent boating; and
- Any fill dumped into, or materials being dug from, the bed of navigable water that may limit or prevent boating.

What is a minor work?

Some works, called minor works, that **will not limit or prevent boating**, do not require TC approval. However, they must be placed, built and maintained according to the Minor Works and Waters (NWPA) Order. If they aren't, owners may be fined.

Minor works include:

- Winter Crossings
- Water Intakes
- Pipeline Crossings
- Docks & Boathouses
- Submarine (underwater) Cables
- Aerial Cables
- Erosion Protection Works
- Dredging



Get Your Project Approved

All works, except those listed as minor works under the *Order*, must be approved by Transport Canada. TC approval is proof that your planned work will not limit or prevent boating.

Contact TC for approval **well before your desired start date**. This will give us time to review your project and respond.

Remember: You must request and get any local building or other permits you may need **before** you begin your work.

Approval process

Step One: Apply.

1. Prepare a letter or application form that includes the information set out in Table 1, below;
2. Include a map and directions indicating the exact location of the worksite;
3. Include onsite, upstream and downstream photos of the waterway.
4. Mail your letter and supporting documents to:

Transport Canada, Navigable Waters Protection Office
100 Front Street South,
Sarnia, Ontario N7T 2M4



Table 1 - Information and Application Requirements

Please provide as much of the following information as possible as missing information may delay your review. Pay particular attention to the mandatory information listed in Section D - Summary of Supporting Documents.

Application Section A:	<ul style="list-style-type: none"> Your name and address, phone, number, fax and email address. Contractor/consultant/agent (if any) address, phone, number, fax and email addresses
Application Section B Work Site Location and Description:	<ul style="list-style-type: none"> Legal site description (lot, concession, county/township or city/town, etc) and 911 address (if any). Name of the owner(s) of property immediately upland to the work site (note that you may require written consent to do the work). <u>Six copies</u> of a key map showing the exact location of the work site. <u>One copy</u> of written directions to the site. The latitude and longitude of the work site, if known. Legal and/or local name of waterway. Photos taken at, upstream and downstream of the work site. Canadian Hydrographic Service (CHS) navigation chart number (if known). National Traffic System (NTS) topographic map numbers (if known). A photocopy of your water lot lease or permit. The ordinary high water mark, the normal summer water elevation or chart datum at the work site (if known). Average width and depth of the waterway at the work site. Known boating uses of the waterway, i.e. traveling, moving freight, work or pleasure.
Application Section C Description of Work:	<ul style="list-style-type: none"> A detailed description of the work, including: <ul style="list-style-type: none"> method of construction; equipment and material used; operating plans; debris management plans; and any temporary works (berm, cofferdam, road, signage, portage, etc) required for the project. <u>Six copies</u> of drawings of the work (top-down plan view and side-on profile view) including: <ul style="list-style-type: none"> structure dimensions; shoreline shape; water depths; and near by structures. Any Environmental Assessment documents and information you have. Your proposed building or project schedule (with start and end dates). Status of the work at the time of application (existing, proposed, rebuilding, repairs, etc). Original date the existing work was constructed, if this is a repair or rebuild, and the date of any previous approvals. Name of any other agencies you have submitted these plans to.
NOTE	Transport Canada must receive at minimum the following information to process your application. Missing information may lead to delays.

(Continued)



Transport
Canada

Transports
Canada



Table 1 - Information and Application Requirements

Application Section D	<ul style="list-style-type: none">□ Your name, address, phone, number, fax and email address.□ If an agency is acting on your behalf, provide Agency Applicant and name, address, phone, number, fax and email address.
Summary of Supporting Documents:	<ul style="list-style-type: none">□ Legal site description (lot, concession, county/township or city/town, etc). If the work site has been assigned a 911 address, provide this as well.□ <u>Six copies</u> of a key map showing the exact location of the work site.□ A photocopy of your water lot lease or permit.□ Photos taken at, upstream and downstream of the work site.□ The ordinary high water mark, the normal summer water elevation or chart datum at the work site.□ A detailed description of the work, including method of construction, equipment and material used, operating plans, debris management plans and any temporary works (berm, cofferdam, road, signage, portage, etc) required for the project.□ <u>Six copies</u> of drawings of the work (top-down plan view and side-on profile view) including structure dimensions, shoreline shape, water depths and near by structures.



Transport
Canada

Transports
Canada



Step Two: Wait for a response.

Transport Canada reviews proposed works based on information you provide, on-site assessment of the waterway and potential impacts to navigation. Once its review is complete, TC may issue an approval if the impacts to navigation can be lessened. The approval may include conditions you must meet.

The complete Transport Canada review can take some time because you may be asked to:

- Provide more information;
- Meet a Transport Canada official on site;
- Deposit plans after confirmation to proceed,
- Notify the public of the proposed work and allow one month for comments, and
- Support an environmental assessment of the work as per the under *Canadian Environmental Assessment Act (CEAA)*.

Step Three: Receive a response.

If / When you receive an Approval Document, you must:

- Read it carefully. It may include conditions that you must meet or time limits you must respect.
- Keep a copy of the Approval Document on the work site at all times.
- Meet all conditions of approval.
- Expect a TC official inspect your site to make sure you are meeting all conditions of approval.
- Write to TC when your work is done.



Table 2 – The Approval Process – Step by Step

1. Verify if the waterway is subject to the *Minor Works and Waters (Navigable Waters Protection Act) Order* or is a navigable waterway.
2. Verify if the work is subject to the *Minor Works and Waters (Navigable Waters Protection Act) Order* or is subject to application and review under the Act.
3. Complete and sign the application form and send it to Transport Canada with supporting documents listed in Table 1 (above) to the following address:

Transport Canada, Navigable Waters Protection Office
100 Front Street South, Sarnia, Ontario N7T 2M4
- Include six copies of the drawings and key map showing location of the work site.
4. Be prepared to attend an on-site meeting with Transport Canada officials, or if asked, to provide more information.
5. If notified by Transport Canada, deposit one set of drawings and the supporting documents at the nearest Land Registry or Land Titles Office. Have one set of drawings certified by the Registrar and return it to Transport Canada with the Registrar's certificate, signature and deposit number.
6. If notified by Transport Canada, advertise your work project in the legal section, if possible. We will send you a sample ad, complete instructions and a blank Statutory Declaration of Advertising. When you have advertised your project:
 - Have the "Statutory Declaration of Advertising" witnessed by a Commissioner of Oaths and return it to Transport Canada with 1 copy of the advertisements.
 - Allow one month for comments from the public before starting to build.
- NOTE: The advertising process may have to be repeated if done too soon, if information is missing or if project plans change.**
7. If asked, provide Transport Canada with any additional information needed for the environmental assessment.
8. When you receive your Approval from Transport Canada, read it carefully and note any conditions of approval. Also, look for any time limits for starting and completing the work as well as how long the Approval Document is valid.
9. Build your work, fulfilling all conditions of the Approval Document. Keep a copy of the Approval on the work site at all times during construction. Transport Canada officials may conduct on-site inspection(s) to ensure conditions are being met.
10. Notify Transport Canada in writing when the work is completed.
11. TC officials may inspect your finished work to make sure that it is built according to plan and meets the conditions of approval. **You must:**
 - Meet all conditions of approval;
 - Take any measures required by the environmental assessment.
 - Make sure to keep the work up to the standard of its approved plans.

Notes: You are responsible to:

- a. Complete the work according to plans approved by Transport Canada;
- b. Fulfill conditions of approval, as set out in the Approval Document issued by Transport Canada;
- c. Implement any environmental protection measures identified under *Canadian Environmental Assessment Act*.

NOTE: This guide explains the Navigable Waters Protection Act application and approval process. If anything in this Guide differs from the Act, comply with the Act.

Navigable Waters Protection Act Request for Project Review

This is my first request for a NWPP review for this project.

Yes ☐

No ☐

Section A	Your Contact Information	
	Your full name:	
	Mailing Address:	
	Street Address (if not the same):	
	City/Town:	Province/Territory: Postal Code:
	Tel. No. (Home):	Tel. No. (Work): Tel. No.: (Other)
	Fax No:	E-mail Address:
	Name of Contractor/Consultant/Agent (if any):	
	Mailing Address:	
	Street Address (if not the same):	
Section B	Site location and description	
	Name of Nearest City, Town, Village:	Municipality / District / County:
	Legal site description (lot, concession, county/township, city/town, etc.) and 911 address, if any:	
	Access road or directions to Proposed Work Site (route number, highway series number or street name/number if urban area, etc.)	
	Legal and/or local name of waterway:	Description of waterway (Note: Enclose photographs):
	CHS navigation chart and NTS topographic map numbers (if available):	Water lot Lease or Permit (if any):
	Average width and depth of waterway at or near the project site:	Known navigation and waterway use (recreational and commercial):
	Basic Project Description	
	What is the proposed project? (dock, dam, bridge, aquaculture site, etc.) Note: <u>You must attach detailed description and plans of work.</u>	
	Proposed project Start and End dates:	Status of the Project (circle one): New Existing Addition Repair Other (explain)
Section C	Building plans (describe methods, temporary works, etc.):	
	Required Supporting Documents and Information	
	Documents:	Information:
	<ul style="list-style-type: none"> A detailed written description of your project A Map showing exactly where the project site is. Drawings – plan view (top down) and profile view (side on) including structure dimensions, shoreline shape and any nearby structures. Environmental Assessment documents and information. Onsite, upstream and downstream photos. 	<ul style="list-style-type: none"> Description of any temporary works related to the project (i.e. portage, signage, berms, cofferdams, roads, etc.). Original building date of an existing work and any previous approvals. Latitude and Longitude of the work site. Upland property owner's name (if you are not the upland property owner, you may need their written consent) Names of other agencies you have submitted plans to.
	Date:	Signature:
	For NWPP Use only:	
	NWPA #:	



Rodriguez, Sandra

From: Koc, Oya
Sent: Tuesday, February 08, 2011 8:50 PM
To: Fraser MacDonald, Nichole; Goorts, Kelly; Rodriguez, Sandra
Subject: FW: Project No: 060114069, Municipal Class Environmental Assessment Study - Burloak Water Purification Plant Expansion(Phase 2) - Notice of Study Commencement

For your information.

Oya

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

From: Don Boswell [<mailto:Don.Boswell@ainc-inac.gc.ca>]

Sent: February 8, 2011 10:42 AM

To: Koc, Oya

Cc: Ralph Vachon

Subject: Project No: 060114069, Municipal Class Environmental Assessment Study - Burloak Water Purification Plant Expansion(Phase 2) - Notice of Study Commencement

I am writing in response to your letter of February 1, 2011 inquiring about claims in the above noted area.

In determining your duty to consult, you may wish to contact the First Nations in the vicinity of your area of interest to advise them of your intentions. To do this you may:

find the Reserves in your area of interest by consulting a map of the region such as the Province of Ontario Ministry of Aboriginal Affairs online map at <http://www.ainc-inac.gc.ca/ai/scr/on/rp/mcarte/mcarte-eng.asp> ; then

search for the First Nations located on those Reserves by using the INAC Search by Reserve site at <http://pse5-esd5.ainc-inac.gc.ca/fnp/Main/Search/SearchRV.aspx?lang=eng>.

To determine the First Nations in your area of interest who have submitted claims please consult the Reporting Centre on Specific Claims at <http://pse4-esd4.ainc-inac.gc.ca/SCBRI/Main/ReportingCentre/External/ExternalReporting.aspx?lang=eng>.

It should be noted that the reports available on the INAC website are updated regularly and therefore, you may want to check this site often for updates. In accordance with legislative requirements, confidential information has not been disclosed.

Please rest assured that it is the policy of the Government of Canada as expressed in The Specific Claims Policy and Process Guide that:

“in any settlement of specific native claims the government will take third party interests into account. As a general rule, the government will not accept any settlement which will lead to third parties being dispossessed.”

We can only speak directly to claims filed under the Specific Claims Policy in the Province of Ontario. We cannot make any comments regarding potential or future claims, or claims filed under other departmental policies. This includes claims under Canada's Comprehensive Claims Policy or legal action by a First Nation against the Crown. You may wish to contact the Assessment and Historical Research Directorate at (819) 994-6453, the Consultation and Accommodation Unit at (613) 944-9313 and Litigation Management and Resolution Branch at (819) 934-2185 directly for more information.

You may also wish to visit

<http://www.ainc-inac.gc.ca/ai/mr/is/acp/acp-eng.asp> on the INAC website for information regarding the Federal Action Plan on Aboriginal Consultation and Accommodation.

To the best of our knowledge, the information we have provided you is current and up-to-date. However, this information may not be exhaustive with regard to your needs and you may wish to consider seeking information from other government and private sources (including Aboriginal groups). In addition, please note that Canada does not act as a representative for any Aboriginal group for the purpose of any claim or the purpose of consultation.

I hope this information will be of assistance to you. I trust that this satisfactorily addresses your concerns.

Sincerely,

Don Boswell
Senior Claims Analyst
Ontario Research Team
Specific Claims Branch

Rodriguez, Sandra

From: Koc, Oya
Sent: Monday, February 07, 2011 9:39 PM
To: Rodriguez, Sandra
Subject: FW: Expansion of Burloak Water Purification Plant Phase 2.

fyi

Oya

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

From: Goorts, Kelly [<mailto:Kelly.Goorts@halton.ca>]
Sent: February 7, 2011 9:34 PM
To: brontevillageresidents@gmail.com
Cc: Koc, Oya; Burnett, Heather
Subject: Re: Expansion of Burloak Water Purification Plant Phase 2.

Dale,

I will ensure to add BVRA to the distribution list and keep you inform throughout the study.

Thanks for your interest in this project.

Regards,

Kelly

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

From: BVRA <brontevillageresidents@gmail.com>
To: Goorts, Kelly
Sent: Mon Feb 07 20:49:30 2011
Subject: Expansion of Burloak Water Purification Plant Phase 2.

Kelly: Please add the Bronte Village Residents Association to the distribution list for this study.

thank you
Dale Walden

Note: They are already
on the list. That's
how he received a
copy of the Notice

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

Rodriguez, Sandra

From: Wamboldt, Tammy
Sent: Thursday, February 03, 2011 10:40 AM
To: 'MEA.Notices.EAAB@ontario.ca'
Subject: Burloak Water Purification Plant (WPP) Phase 2 Class Environmental Assessment Study - Notice of Study Commencement
Attachments: RPT- 60114069 _2861-147-00_ Burloak WPP Expansion Class EA FINAL Notice of Study Commencement 110127.pdf

Halton Region, through their sub-consultants AECOM, has initiated a Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville. The Class EA Study for this project will be undertaken in accordance with the requirements for Schedule 'C' projects under the Municipal Class Environmental Assessment document.

At this time, we are enclosing a copy of the Notice of Study Commencement to advise your agency that the Class EA study for this project has been initiated. If you have any questions or comments or would like additional information on the project, please do not hesitate to contact the undersigned.

Sincerely,

Tammy Wamboldt on behalf of Oya Koc
Senior Administrative Assistant
tammy.wamboldt@aecom.com

AECOM
5600 Cancross Court, Suite A
Mississauga, ON L5R 3E9
Direct: 905-712-7039
T 905.501.0641 F 905.501.0181
www.aecom.com



Please consider the environment before printing my e-mail.

Rodriguez, Sandra

From: Kochmar, Teodor [Teodor.Kochmar@halton.ca]
Sent: Thursday, February 02, 2012 12:01 PM
To: [REDACTED]
Subject: RE: Feedback Form for Burloak Water Purification Plant Phase 2 Environmental Assessment

Good morning,

This is to respond to your question/comment submitted on December 30, 2011 regarding the Class Environmental Assessment Study for the Burloak WPP Expansion.

Working with our neighbours is a very important part of any expansion process, that's why I would first like to thank you for your feedback. You inquired about why the expansion was expected to be close to the existing houses when there is land to the east and west. The location of the expanded facilities (both above and underground) was determined based on evaluation criteria, which also included operational needs of the plant, how the new infrastructure can best tie into the existing facilities, and aesthetics. The evaluation criteria and the preliminary layout presented at the Public Information Centre in November is for the plant expansion to produce up to 165 MegaLitres/Day and it is expected that future expansions will occur to the east and west side of the property.

Please note, while this design represents the most up to date information, it may change once we have completed the detailed design review. All the feedback received will be included while we work on the detailed design.

You also had some questions and made some suggestions regarding landscaping. We are currently evaluating landscaping options and have included in our evaluation your comments regarding tree planting and maintenance.

Thank you for your comments and if you have any further questions or concerns, please either call or e-mail me.

Best regards,

Teodor Kochmar, P.Eng., PMP
Project Manager - Water Design & Construction
Public Works Department
Regional Municipality of Halton

1151 Bronte Road, Oakville, ON L6M 3L1
Tel: 905-825-6000 ext. 7637
Toll Free: 1-866-442-5866
Fax: 905-825-8822
Website: www.halton.ca

[REDACTED]

Ministry of Aboriginal Affairs

160 Bloor St. East, 9th Floor
Toronto, ON M7A 2E6
Tel: (416) 326-4740
Fax: (416) 325-1066
www.aboriginalaffairs.gov.on.ca

Ministère des Affaires Autochtones

160, rue Bloor Est, 9^e étage
Toronto ON M7A 2E6
Tél. : (416) 326-4740
Téléc. : (416) 325-1066
www.aboriginalaffairs.gov.on.ca



Reference: 96

Oya Koc
Project Manager, AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9

Re: Municipal Class Environmental Assessment Study Burloak Water Purification Plant Expansion (Phase 2) Notice of Study Commencement

Dear Ms. Oya:

Thank you for your inquiry dated February 1, 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 Six 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:

Six Nations of the Grand River Territory P.O. Box 5000 Ohsweken, Ontario N0A 1M0	Chief William K. Montour (519) 445-2201 (Fax) 445-4208 wkm@sixnations.ca arleenmaracle@sixnations.ca
Haudenosaunee Confederacy Chiefs Council 2634 6th Line Road RR 2 Ohsweken, Ontario N0A 1M0	Chief Allen MacNaughton (519) 755-2769

A copy of notice of concern will be sent. They will be added to contact list under First Nations.

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:

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	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
---	--

has been contacted under # name = Don Biswell

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

These 2 branches have been contacted with # contact names but same address.

← Already received a letter from him.

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.

February 1, 2011

Contact Name
Contact Title
Company Name
Company Address
Company Address

Dear Contact Name:

Project No: 060114069

**Regarding: Municipal Class Environmental Assessment Study
Burloak Water Purification Plant Expansion (Phase 2)
Notice of Study Commencement**

Halton Region, through their sub-consultants AECOM, has initiated a Class Environmental Assessment (Class EA) Study for the expansion of the Burloak Water Purification Plant (WPP) Phase 2, in the Town of Oakville.

The Class EA Study for this project will be undertaken in accordance with the requirements for Schedule 'C' projects under the *Municipal Class Environmental Assessment* document. The Class EA process will provide members of the public and interested review agencies with opportunities for input at key stages of the project. Two public consultation meetings will be scheduled through the course of this study. A formal invitation letter to these meetings will be forwarded to you ahead of time of these meetings.

At this time, we are enclosing a copy of the Notice of Study Commencement to advise you and/or your agency that the Class EA study for this project has been initiated. If you have any questions or comments or would like additional information on the project, please do not hesitate to contact the undersigned.

Sincerely,
AECOM Canada Ltd.



Oya Koc, P.Eng.
Project Manager
Oya.koc@aecom.com

SR:tw
Encl.

NOTICE OF STUDY COMMENCEMENT MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT STUDY

Burloak Water Purification Plant Phase 2, Town of Oakville

Background

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase the capacity of the Burloak Water Purification Plant (WPP). A review of the Region's Water and Wastewater Servicing Master Plan, completed in 2004, identified the need for the new Burloak WPP to meet the demands of future development.

Problem Statement

The 2004 Master Plan Review recommended that the Burloak WPP be constructed in phases to satisfy the water supply needs for the projected population. The Burloak WPP has a current capacity of 55,000 m³/day. An update to the Master Plan completed in 2008 identified that the next phase of expansion of the Burloak WPP is to a treatment capacity of 165,000 m³/day.

The Process

The Class EA study is being conducted according to the requirements of a Schedule "C" project of the Municipal Class Environmental Assessment document (October 2000, amended in 2007). The purpose of the Class EA study is to identify the preferred solution for increasing water treatment capacity at the plant. The study will include:

- public and agency consultation
- evaluation of alternative design concepts for the expansion
- assessment of the impacts of the proposed work
- identification of measures to mitigate potential impacts
- consideration of technical, socio-cultural, natural environmental and economic issues.

Public Information Centers

We will consult with the public and review agencies throughout the Class EA process. Two Public Information Centres (PICs) will be held in association with this study. We will publish invitation notices to the PICs in local newspapers, on the Region's website www.halton.ca/waterwastewaterClassEas and distribute to all individuals who express an interest in this project.

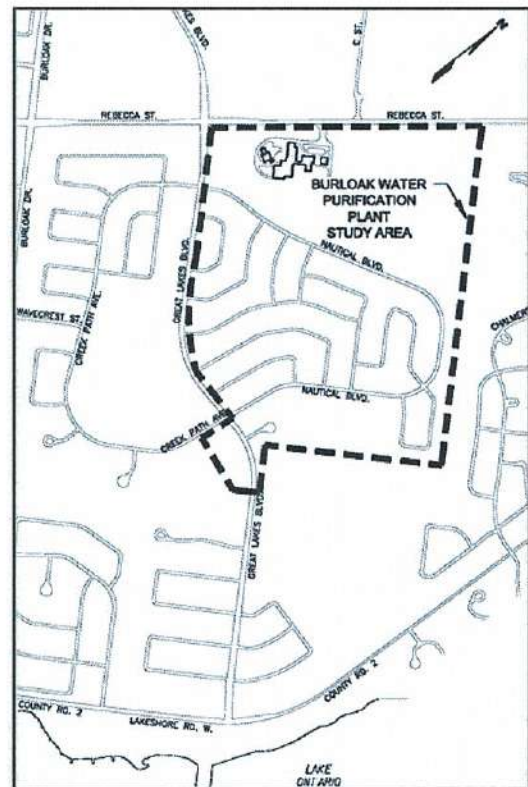
Contact Us

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:

Kelly Goorts
Regional Municipality of Halton
1075 North Service Road West
Oakville, Ontario L6M 2G2
Telephone: 905-825-6000 ext. 3309
Fax: 905-825-8822
Kelly.goorts@halton.ca

Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Telephone: 905-712-6998
Fax: 905-501-0181
Oya.koc@aecom.com

The map below covers the
approximate limits of the study area



Lots going on to celebrate Black History Month in Oakville

The Canadian Caribbean Association of Halton (CCA-H), in partnership with the Oakville Museum will present Halton Black History Month 2011.

Numerous events will be held across Halton to celebrate — all of them open to the community and featuring performing artists and historians as well as representatives from the education community.

The celebrations aim to increase awareness of Black Canadian History and Heritage, honour the history and legacy of Black Canadians, past and present, promote civic memory

and pride as well as insight into the experiences and contributions of Black Canadians and the vital role Oakville and Halton have played in history.

The African Canadian art exhibit, *From The Soul* is now open in the North Atrium of the Oakville Town Hall at 1225 Trafalgar Rd. This exhibit was featured at The Royal Ontario Museum and will continue to Feb. 18 at Town Hall. Admission is free.

Last week, Oakville Museum showcased its Underground Railroad information and Halton Regional

Centre celebrated the ingenuity and creativity of Black Canadian inventors. Entertainers will include spoken word artist, story-teller, and African drummer Michael St. George and the CCAH Steel Band with support from Artworks Oakville Association.

On Thursday, Feb. 10, Lunch and Learn — The Freedom Papers, will take place from noon to 1 p.m. at the Oakville Town Hall, 1225 Trafalgar Rd. Learn how the arrival of Branson Johnson's freedom papers touched off a genealogical and scientific investigation worthy of a CSI episode. Bring lunch to this free public

lecture and hear how this research shed new light on one of Oakville's pioneering black families. Call 905-338-4400 to register. Admission is free.

On Sunday, Feb. 13, take part in an afternoon of traditional African storytelling at the Seniors Recreation Centre at 263 Kerr St. from 1:30-3:30 p.m. Explore storytelling and the oral tradition, a timeless art form that preserves and passes on the folklore, legends, myths, fables and mores of Africans and their descendants. Storytellers will be

Sandra Whiting and Winston La Rose. Admission is free.

On Friday, Feb. 25 there will be an author's evening with Natasha L. Henry from 7-9 p.m. at the Oakville Museum that will include a reading and discussion of her book *Emancipation Day: Celebrating Freedom in Canada*. Call 905-338-4400 to register. Admission is free.

On Monday, Feb. 28 from 7-10 p.m. there will be a musical performance featuring local artists and the CCAH Steel Band at The Meeting House. Visit www.ccah.ca or call 905-257-0581.



The Regional Municipality of Halton

www.halton.ca

NOTICE OF STUDY COMMENCEMENT

Burloak Water Purification Plant Phase 2, Town of Oakville Municipal Class Environmental Assessment Study

Background

Halton Region is initiating a Class Environmental Assessment (Class EA) Study to increase the capacity of the Burloak Water Purification Plant (WPP). A review of the Region's Water and Wastewater Servicing Master Plan, completed in 2004, identified the need for the new Burloak WPP to meet the demands of future development.

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- consideration of technical, socio-cultural, natural environmental and economic issues.

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Contact Us

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:

Kelly Goorts
Halton Region
Phone: 905-825-6000 Ext. 3309
Fax: 905-825-8822
Email: kelly.goorts@halton.ca

Oya Koc
AECOM
5600 Cancross Court, Suite A
Mississauga, Ontario, L5R 3E9
Phone: 905-712-6998
Fax: 905-501-0181
Email: Oya.koc@aecom.com

This Notice first issued on February 3, 2011.



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

The map below covers the approximate limits of the study



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.
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