

Public Information Session 2 Summary Report



Twin Creeks Environmental Centre Landfill
Optimization Project Environmental Assessment

WM Canada

Watford, Ontario

January 19, 2024

Prepared by:

HDR Corporation
100 York Blvd., Suite 300
Richmond Hill, ON K4B 1J8





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1 Background

WM Canada (WM), the owner and operator of the Twin Creeks Environmental Centre (TCEC) located in the Township of Warwick, Ontario, is undertaking an Environmental Assessment (EA) under the *Ontario Environmental Assessment Act (OEAA)* seeking approval to develop additional landfill disposal capacity as part of the optimization of the design and operations of the TCEC landfill. The TCEC is located near the village of Watford, at the corner of Nauvoo Road and Zion Line, within the County of Lambton. The purpose of the EA is to assess the potential effects of the proposed landfill optimization on the environment.

There are approximately 8 years of approved landfill airspace capacity remaining at the TCEC (i.e., capacity will be reached in approximately 2031). The proposed optimization would provide additional airspace of the approximately 14 million cubic metres (m³), which could extend the site life by approximately 12 years (from 2031 to 2043) and may be achieved through alternative landfill configurations or alternative methods within the existing 301 ha TCEC site area. No changes are proposed to the size of the TCEC site area, approved service area, or annual fill rate.

The TCEC landfill provides safe and convenient disposal services for communities, businesses and industries servicing the Province of Ontario. There is a need for the continued development of the TCEC as it is a significant component of the provincial waste management network and infrastructure, which is lacking in sufficient and secure long-term disposal capacity. Optimizing the development of the TCEC would maximize the use of the existing site infrastructure and would allow for on-going sustainable business operations and continued provision of essential financial support for community services and programs. The landfill optimization would also provide longer-term certainty of service continuity to WM's customers beyond the remaining approximate 8 years of capacity.

The EA will be carried out in accordance with the requirements of the *OEAA* and the Terms of Reference (ToR) for the project, which was approved by the Ministry of Environment, Conservation and Parks on December 13, 2022. The approved ToR sets out the proponent's framework and work plan for addressing the *OEAA* requirements when preparing the EA, including the public consultation and engagement activities that will be carried out. Four public information sessions are proposed to support the development of the EA for the project.

Public and agency consultation and Indigenous community engagement are an essential part of the EA process. Consultation and engagement activities such as public information sessions provide opportunities to meet the project team, learn more about the project, ask questions, and provide comments about the EA. This report provides a summary of Public Information Session 2 for the EA, which was carried out through two events, on November 29 and December 5, 2023.

2 Overview of Public Information Session 2

Public Information Session 2 was held to provide an update on the EA, present the screening of Alternative Methods, review the approved Evaluation Criteria, present a summary of Existing Conditions, and provide an overview of the next steps in the EA process and upcoming Consultation and Engagement opportunities.

The Public Information Session was held through two events at the TCEC site in the maintenance building. Display panels were set up on easels within the main maintenance area. WM staff and consultants were available to discuss the information presented, answer questions, and receive comments. Upon arrival, attendees were asked to sign-in. A comment form was available, which included questions regarding the information presented. Attendees were given the option of filling out the forms on-site or returning their comments via mail or email to the project contacts provided on the comment form.

3 Notifications

3.1 Public and Agency Notification

Agencies and members of the public were notified of Public Information Session 2 via the Notice of Public Information Session 2 (the Notice). A copy of the Notice is provided in **Appendix A**.

The Notice was distributed in hard copy via Canada Post direct mail to all houses, apartments, farms, and businesses in the Township of Warwick for a total of 1,927 recipients starting on November 15, 2023. The Notice was sent via email to agencies, municipalities, organizations, and members of the public on the mailing list on November 16, 2023. The mailing list of agencies, municipalities, organizations, and members of the public that received notification is provided in **Appendix B**.

The Notice was published in three newspapers on November 16 and 23, 2023: The Sarnia Observer; The Independent of Petrolia and Central Lambton; and Sarnia This Week. Copies of the newspaper advertisements are provided in **Appendix C**.

A copy of the Notice was uploaded to the project website on November 15, 2023.

3.2 Indigenous Community Notification

The following Indigenous communities and groups were notified of Public Information Session 2 via the Notice sent by Canada Post Xpresspost and email on November 15 and 16, 2023, respectively:

- Aamjiwnaang First Nation;
- Walpole Island First Nation – Bkejwanong Territory;
- Caldwell First Nation;

- Chippewas of Kettle and Stony Point First Nation;
- Chippewas of the Thames First Nation;
- Delaware Nation at Moraviantown;
- Munsee Delaware Nation;
- Oneida Nation of the Thames; and
- Métis Nation of Ontario – Lands, Resources & Consultations Branch.

The mailing list of Indigenous communities and groups that received notification is provided in **Appendix D**.

4 Venue and Attendance

Public Information Session 2 took place through two events, on Wednesday, November 29, 2023, and Tuesday, December 5, 2023, at the WM Twin Creeks Site Maintenance Building, 5768 Nauvoo Road, Watford, Ontario from 4 p.m. to 8 p.m. The event was held in-person and was organized to allow attendees to circulate around the space, review the information on the display panels, and ask questions of WM staff and consultants. Based on the completed sign-in sheet (**Appendix E**), the Public Information Session was attended by 22 people (18 people on November 29, and 4 people on December 5) in addition to WM and consulting staff.

WM staff included:

- Wayne Jenken, Landfill Engineering Manager;
- John McDonald, Senior District Manager;
- Jessica Kropf, Senior Communications Manager;
- Luiza Adsett, Senior Area Manager, Public Affairs;
- Angela McLachlan, Environmental Compliance Manager;
- Isabel Rodriguez, Construction Project Manager;
- Greg Milner, Gas Operations Manager; and
- Jason Turnbull, Landfill Operations Manager.

Consulting staff included:

- Larry Fedec, HDR (Project Manager);
- Kelly Beri, HDR (Environmental Assessment, Socio-Economic Environment, Consultation and Engagement);
- Brad Bergeron, RWDI (Air Quality and Odour);
- Sarah Pellatt, RWDI (Air Quality and Odour);

- Khalid Hussein, RWDI (Noise);
- Brent Langille, RWDI (Geology/Hydrogeology and Surface Water Quality);
- Jeff Cleland, RWDI (Geology/Hydrogeology and Surface Water Quality);
- Cristina Olarte, WSP (Surface Water Quantity, Alternative Methods);
- Desta Frey, NRSI (Ecological Environment);
- Mark Schollen, Schollen & Company Inc. (Visual);
- Elliot Sigal, Intrinsik (Human Health);
- John Sleath, ASI (Cultural Heritage Resources and Archaeological Resources);
- Adam Beausoleil, HDR (Transportation); and
- Jay McGuffin, MBPC (Land Use).

5 Information Presented

Information was presented on 32 large display panels set up on easels around the room. A copy of the display panels is provided in **Appendix F**. The information presented included:

- an overview of the TCEC site and the Landfill Optimization Project;
- an update on the EA;
- the three representative Alternative Methods that were developed;
- a summary of the screening of the representative Alternative Methods;
- the approved Evaluation Criteria to be used in the EA;
- a summary of Existing Conditions for each of the Evaluation Criteria;
- consultation and engagement opportunities;
- ways that people can participate in the EA;
- next steps for the EA; and
- project staff contact information.

A copy of the display panels for Public Information Session 2 was made available on the project website at: <https://www.wm.com/ca/en/twin-creeks-landfill/landfill-optimization-project>.

6 Summary of Comments/Issues

As attendees arrived at the Public Information Session, a comment form was available (**Appendix G**), which included questions regarding the information presented. Attendees were given the option of filling out the form on-site or returning their comments via mail or email to the contact information provided on the form. Completed comment forms were requested by December 22, 2023. A copy of the comment form was also made available on the project website.

No completed comment forms were received during or after the Public Information Session. Verbal comments received during the Public Information Session were addressed by staff as they were received. Verbal comments, key issues and discussions at Public Information Session are summarized below by subject.

Air Quality and Odour

- What are the sources of odour?
- Is odour measured or modelled?
- How is odour modelling conducted?
- What do the odour contours mean?
- How does the odour modelling relate to the smell at a certain location?
- What is measured on site?
- What is being done to control odours from the site?
- Confirm the number of complaints includes those received by both WM and the Ministry of Environment, Conservation and Parks.

Noise

- What are the types of noise sources associated with the landfill?
- Is there noise monitoring currently at the landfill? If so, where?
- Does the existing conditions noise study include noise impacts from the roads and haul routes?

Geology and Hydrogeology

- How, where, and how often is groundwater quality monitored at the TCEC?
- Is groundwater quality monitored off-site?
- How is landfill leachate managed at the TCEC and where is the leachate treated?
- How is the groundwater protected from being contaminated by the landfill leachate?

Surface Water Quality and Quantity

- How, where, and how often is surface water quality monitored at the TCEC?
- Is surface water quality monitored off-site?
- How is the surface water protected from being contaminated by the landfill leachate?

Ecological Environment

- What are Myotis and Bobolink?

Socio-Economic Environment

- Interesting to see the amount of spending by WM in Watford and the Township of Warwick.
- Regarding local businesses, the Township of Warwick and the Sarnia Lambton Economic Partnership are working together to update the business directory, which should be complete by the end of December.
- Does WM provide engagement funding to any First Nations communities?
- Are First Nations communities part of the Socio-Economic assessment?

Visual

- Concern about the height of the proposed expansion.
- Request to communicate the height of the landfill in a simple way, perhaps comparing the height in terms of recognizable objects/structures.
- Concern about Watford being perceived as housing the highest/tallest/largest landfill in Ontario.
- Request that a list of landfills that are of the same height or higher than the proposed TCEC be provided.
- Suggestion that WM could plant trees south of the soil stockpile, north of Confederation Line, to establish a visual screen that could be mature/tall enough to screen views from the south.
- Suggestion that WM explore alternative landform configurations for the landfill expansion that would create an undulating landform that could incorporate screening of the tipping operation as the expansion advances. The tipping operation was identified by the public as being more visually intrusive than the landform itself.
- The common opinion was that potential visual impacts could be dealt with through a combination of planting/screening and additional on-site screening.

Human Health

- Questions about H₂S, and cadmium in groundwater.

Cultural Heritage and Archaeological Resources

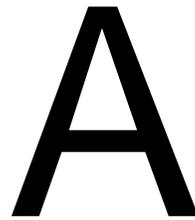
- Confirmation that there are no heritage or archaeological concerns at the TCEC.

Transportation

- Comments about trucks coming off the Highway 402 westbound off-ramp and aggressively merging on to southbound Nauvoo Road, cutting off other trucks or vehicles.
- Questions about signalization and the possibility of improving the Highway 402 / Nauvoo Road interchange to have all movements free-flow with ramps, which would be an MTO matter.
- Mention of a notable rush of trucks during the early morning before 7AM, and concern that this is the worst case in terms of the trucks queuing along Nauvoo Road. Confirmation that scheduling has helped, but the morning rush issue persists.
- Comments that trucks stop on the side of the Highway 402 westbound off-ramp while they wait for their scheduled time to enter the TCEC in the morning.
- Confirmation that traffic is not expected to increase.
- Future projections will account for general background growth and other new developments.

Land Use

- Discussion about the zoning on the TCEC site.

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Notice of Public Information Session 2

Notice of Public Information Session 2



Twin Creeks Environmental Centre Landfill Optimization Project Environmental Assessment

November 29 & December 5, 2023 | 4 - 8 PM

Twin Creeks Environmental Centre

5768 Nauvoo Road, Watford, ON N0M 2S0

WM Canada (WM), the owner and operator of the Twin Creeks Environmental Centre (TCEC) in Watford, Ontario, will be hosting **Public Information Session 2** for the TCEC Landfill Optimization Project Environmental Assessment (EA).

There are approximately 8 years of approved landfill airspace capacity remaining at the TCEC (i.e., capacity will be reached in approximately 2031). The Project would provide additional airspace of approximately 14 million cubic metres, which could extend the site life by approximately 12 years (from 2031 to 2043), and may be achieved through alternative landfill configurations or alternative methods within the existing 301 ha TCEC site area. No changes are proposed to the size of the TCEC site area, approved service area, or annual fill rate.

The purpose of the EA is to assess the potential effects of the Project on the environment.

For additional information on the project, please visit the project website:

www.wm.com/ca/en/twin-creeks-landfill/landfill-optimization-project.

Public Information Session 2 is being held to:

- Provide an update on the EA
- Present a screening of Alternative Methods
- Provide a summary of Existing Conditions
- Present next steps in the EA Process
- Obtain your input

We value your engagement and look forward to discussing the project with you. You are welcome any time from 4 - 8 PM on November 29 and December 5.

If you have questions, please contact:

Wayne Jenken
Landfill Engineering
Manager, Canada Area
WM Canada
5768 Nauvoo Road,
Watford, ON N0M 2S0
519.849.5810
wjenken@wm.com

Larry Fedec, P.Eng. M.B.A.
Solid Waste Program Lead,
Canada
HDR Corporation
100 York Blvd., Suite 300,
Richmond Hill, ON L4B 1J8
289.695.4696
larry.fedec@hdrinc.com

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Public and Agency
Mailing List

Agencies (Provincial/Federal/Municipal)

Type	Category	Agency	Title	First	Last	Address	Address 2	City	Prov	Postal	Phone number	Email
Provincial												
Prov / GRT	Conservation Authority	St. Clair Region Conservation Authority	Planning and Regulations			205 Mill Pond Crescent		Strathroy	ON	N7G 3P9	519-245-3710	planning@scrca.on.ca
Prov / GRT	Conservation Authority	St. Clair Region Conservation Authority	Director of Planning and Regulations	Melissa	Deisley	205 Mill Pond Crescent		Strathroy	ON	N7G 3P9	519-245-3710 x251	mdeisley@scrca.on.ca
Prov / GRT	Conservation Authority	St. Clair Region Conservation Authority	Planning Ecologist	Sarah	Hodgkiss	205 Mill Pond Crescent		Strathroy	ON	N7G 3P9	519-245-3710 x234	shodgkiss@scrca.on.ca
Prov / GRT	Provincial	Ontario Provincial Police	Administrative Assistant Research and Program Evaluation Unit / Research Planning & Analysis Section	Jennifer	Davey	777 Memorial Avenue	1st Floor	Orillia	ON	L3V 7V3	705-309-2621	jennifer.davey@opp.ca
Prov / GRT	Provincial	Ontario Provincial Police	Manager(A), Research Planning & Analysis Section	Iris	Chan	777 Memorial Avenue	1st Floor	Orillia	ON	L3V 7V3		iris.chan@opp.ca
Prov / GRT	Provincial	Ontario Provincial Police	Administrative Assistant(A) Facilities Section	Abisola	Akinwumi	777 Memorial Avenue	2nd Floor	Orillia	ON	L3V 7V3	705-329-6825	abisola.akinwumi@opp.ca
Prov / GRT	Provincial	Ministry of Agriculture, Food and Rural Affairs	General Email									omafra.eanotices@ontario.ca
Prov / GRT	Provincial	Ministry of Agriculture, Food and Rural Affairs	Rural Planner(A) Western Ontario Land Use Policy & Stewardship Food Safety and Environmental Policy Branch	Dana	Kieffer	6484 Wellington Road 7		Elora	ON	N0B 1S0	226-962-8933	dana.kieffer@ontario.ca
Prov / GRT	Provincial	Ministry of Mines	Manager of Strategic Support Unit (Acting) Strategic Services Branch	Tracey	Burton	933 Ramsey Lake Rd. Willet Green Miller Ctr	2nd Floor	Sudbury	ON	P3E 6B5	705-918-1609	tracey.burton@ontario.ca
Prov / GRT	Provincial	Ministry of Mines	Senior Strategic Initiatives Lead (Acting) Strategic Services Branch	Melanie	Johnson	933 Ramsey Lake Rd. Willet Green Miller Ctr	2nd Floor	Sudbury	ON	P3E 6B5	705-698-5041	melanie.johnson@ontario.ca
Prov / GRT	Provincial	Ministry of Municipal Affairs and Housing	Manager Community Planning and Development Western Municipal Services Office	Erick	Boyd	659 Exeter Road	2nd Floor	London	ON	N6E 1L3	226-688-9058	erick.boyd@ontario.ca
Prov / GRT	Provincial	Ministry of Natural Resources and Forestry	Environmental Planning Team Lead(A) Strategic and Indigenous Policy Branch, Policy Division	Keith	Johnston	300 Water St.	3rd Floor S	Peterborough	ON	K9J 3C7	705-313-6960	keith.johnston@ontario.ca
Prov / GRT	Provincial	Ministry of Natural Resources and Forestry	District Supervisor (Acting) Aylmer District	Deanna	Lindblad	4890 Victoria Ave. N	PO Box 5000	Vineland	ON	L0R 2E0	289-407-4178	deanna.lindblad@ontario.ca
Prov / GRT	Provincial	Ministry of Natural Resources and Forestry	District Planner Land Use Planning Unit Southern Region Aylmer District	Karina	Cerniavskaja	615 John St. N		Aylmer	ON	N5H 2S8	519-200-2276	karina.cerniavskaja@ontario.ca
Prov / GRT	Provincial	Ministry of the Solicitor General	Director	Robert	Greene	25 Grosvenor Street	13th Floor	Toronto	ON	M7A 1Y6	416-277-2370	robert.greene@ontario.ca
Prov / GRT	Provincial	Ministry of the Solicitor General	Director (A), Facilities and Capital Planning Branch, Corporate Services Division	Fuad	Abdi	25 Grosvenor Street	13th Floor	Toronto	ON	M7A 1Y6	416-884-5932	fuad.abdi@ontario.ca
Prov / GRT	Provincial	Ministry of Citizenship and Multiculturalism	Team Lead - Heritage Heritage Planning Unit Programs and Services Branch	Karla	Barboza	400 University Ave.	5th Floor	Toronto	ON	M7A 2R9	416-660-1027	karla.barboza@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Director, Environmental Assessment Branch	Kathleen	O'Neill	135 St. Clair Ave. West	7th Floor	Toronto	ON	M4V 1P5	647-287-5664	kathleen.oneill@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Special Project Officer	Cindy	Batista	135 St. Clair Ave. West	1st Floor	Toronto	ON	M4V 1P5	437-248-0058	cindy.batista@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Manager(A), Environmental Assessment Services Environmental Assessment Branch	Andrew	Evers	135 St. Clair Ave. West	1st Floor	Toronto	ON	M4V 1P5	647-961-4850	andrew.evers@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Manager(A), Environmental Assessment Services Environmental Assessment Branch	Nick	Colella	135 St. Clair Ave. West	1st Floor	Toronto	ON	M4V 1P5	416-358-9934	nick.colella@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Supervisor, Environmental Assessment Services Project Coordination Team 1 Environmental Assessment Branch	Solange	Desautels	135 St. Clair Ave. West	1st Floor	Toronto	ON	M4V 1P5	416-992-5867	
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Senior Advisor - Outreach, Environmental Assessment Program Support Environmental Assessment Branch	Peter	Brown	135 St. Clair Ave. West	1st Floor	Toronto	ON	M4V 1P5	437-243-5010	peter.brown@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Manager (A), Waste Approvals Environmental Permissions Branch	Mohsen	Keyvani	135 St. Clair Ave. West	1st Floor	Toronto	ON	M4V 1P5	416-432-7253	mohsen.keyvani@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Manager, Sarnia District Office, Southwest Region	Sean	Morrison	1094 London Rd		Sarnia	ON	N7S 1P1	519-381-5536	sean.morrison@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Director, Southwest Region	Saif	Sumbal	733 Exeter Rd		London	ON	N6E 1L3	519-873-5001	saifullah.sumbal@ontario.ca

Type	Category	Agency	Title	First	Last	Address	Address 2	City	Prov	Postal	Phone number	Email
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Manager(A), London District Office	Pierre	Adrien	733 Exeter Rd		London	ON	N6E 1L3	226-919-6416	pierre.adrien@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Supervisor, Sarnia District Office	Mary Jane	Corda	1094 London Road		Sarnia	ON	N7S 1P1	226-932-1785	maryjane.corda@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Supervisor, Sarnia District Office	Peder	Garberg	1094 London Road		Sarnia	ON	N7S 1P1	519-490-3268	peder.garberg@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Environmental Compliance Supervisor, Sarnia District Office	Michael	Harris	1094 London Road		Sarnia	ON	N7S 1P1	289-241-1535	michael.harris@ontario.ca
Prov	Provincial	Ministry of the Environment, Conservation and Parks	Senior Environmental Officer, London District Office	Nicole	Does	733 Exeter Rd		London	ON	N6E 1L3	519-870-3050	Nicole.Does@ontario.ca
Prov	Provincial	Lambton-Kent-Middlesex	MPP	Monte	McNaughton	81 Front Street West		Strathroy	ON	N7G 1X6	519-245-8696	Minister.MLITSD@ontario.ca monte.mcnaughtonCO@pc.ola.org
Prov	Provincial	Lambton-Kent-Middlesex	MPP			81 Front Street West		Strathroy	ON	N7G 1X6	519-245-8696	lambton-kent-middlesex@pc.ola.org
Prov	Provincial	Sarnia-Lambton	MPP	Bob	Bailey	805 Christina St. North	Suite 102	Point Edward	ON	N7V 1X6	519-337-0051	robert.bailey@ontario.ca bob.baileyco@pc.ola.org
Federal												
Fed / GRT	Federal	Environment and Climate Change Canada	Manager, Environmental Assessment Section Environmental Protection Branch – Ontario Region	Wes	Plant	4905 Dufferin Street		Toronto	ON	M3H 5T4	416-739-4272	wesley.plant@ec.gc.ca
Fed / GRT	Federal	Environment and Climate Change Canada	Manager, Environmental Assessment Section Environmental Protection Branch – Ontario Region	Jeremy	Anglesey	351, boul. Saint-Joseph		Gatineau	QC	K1A 0H3	819-420-7651	jeremy.anglesey@ec.gc.ca
Municipal												
Mun / GRT	Municipal	Lambton Public Health	Medical Officer of Health	Dr. Sudit	Ranade	160 Exmouth Street		Point Edward	ON	N7T 7Z6	519-383-8331	publichealth@county-lambton.on.ca
Mun / GRT	Municipal	Lambton Public Health	Medical Officer of Health (A)	Dr. Karaly	Dueck	160 Exmouth Street		Point Edward	ON	N7T 7Z6	(519) 383-8331	publichealth@county-lambton.on.ca
Mun / GRT	Municipal	Lambton Public Health	Public Health Inspector	Theresa	Warren	160 Exmouth Street		Point Edward	ON	N7T 7Z6	519-383-8331	theresa.warren@county-lambton.on.ca
Mun / GRT	Municipal	County of Lambton	CAO	Stéphane	Thiffeault	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-0801	stephane.thiffeault@county-lambton.on.ca
Mun	Municipal	County of Lambton	CAO	Ron	Van Horne	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-5410	ron.vanhorne@county-lambton.on.ca
Mun / GRT	Municipal	County of Lambton	Clerk/Solicitor	Olivia	Leger	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-5402	olivia.leger@county-lambton.on.ca
Mun / GRT	Municipal	County of Lambton	Clerk/Solicitor (A)	Ryan	Beauchamp	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-5402	ryan.beauchamp@county-lambton.on.ca
Mun	Municipal	County of Lambton	Manager, Planning & Development Services	Ken	Melanson	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-0801 x5342	ken.melanson@county-lambton.on.ca
Mun	Municipal	County of Lambton	General Manager, Infrastructure & Development Services	Jason	Cole	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-5413	jason.cole@county-lambton.on.ca
Mun	Municipal	County of Lambton	Manager, Public Works	Matt	Deline	789 Broadway St.	P.O. Box 3000	Wyoming	ON	N0N 1T0	519-845-0801 x5370	matt.deline@county-lambton.on.ca
Mun	Municipal	County of Lambton	Public Works Technologist	Glen	Millar	160 Exmouth St		Point Edward	ON	N7T 7Z6	519-845-0801 x 5311	glen.millar@county-lambton.on.ca
Mun / GRT	Municipal	Township of Warwick	Fire Chief, Warwick Station	Brad	Goodhill	7074 Egremont Road		Warwick	ON	N0M 2S0	519-490-4256	warwickfire@warwicktownship.ca
Mun / GRT	Municipal	Township of Warwick	Fire Chief, Watford Station	Rick	Sittington	520 Ontario Street		Watford	ON	N0M 2S0	519-490-4337	watfordfire@warwicktownship.ca
Mun / GRT	Municipal	Township of Warwick	CAO/Clerk	Amanda	Gubbels	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	(226) 848-3926	agubbels@warwicktownship.ca
Mun	Municipal	Township of Warwick	Treasurer/Deputy Administrator	Trevor	Jarrett	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	(226) 848-3926	tjarrett@warwicktownship.ca
Mun	Municipal	Township of Warwick	Manager/Drainage Superintendent, Public Works	Andrew	Maver	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	(226) 848-3926	amaver@warwicktownship.ca
Mun	Municipal	Township of Warwick	Mayor	Jackie	Rombouts	6332 Nauvoo Road		Watford	ON	N0M 2S0	519-464-3634	jackie_rombouts@hotmail.com
Mun	Municipal	Township of Warwick	Mayor	Todd	Case	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	519-490-4533	tcase@warwicktownship.ca
Mun	Municipal	Township of Warwick	Councillor	Colin	Mitchell	6332 Nauvoo Road		Watford	ON	N0M 2S0	226-235-2337	mitchellcolin24@gmail.com
Mun	Municipal	Township of Warwick	Deputy Mayor/Councillor	John	Couwenberg	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	519-490-4372	jcouwenberg@warwicktownship.ca
Mun	Municipal	Township of Warwick	Councillor	Wayne	Morris	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	519-849-3947	wmorris@warwicktownship.ca
Mun	Municipal	Township of Warwick	Councillor	Jerry	Westgate	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	(519) 876-2519	jwestgate@warwicktownship.ca
Mun	Municipal	Township of Warwick	Councillor	Todd	White	6332 Nauvoo Road		Watford	ON	N0M 2S0	519-617-6917	whitet72@cloud.com
Mun	Municipal	Township of Warwick	Councillor	Joe	Manning	5280 Nauvoo Road	PO Box 10	Watford	ON	N0M 2S0	519-520-5918	jmanning@warwicktownship.ca
Mun	School Board	Conseil Scolaire Catholique Providence	Director of Education	Joseph	Picard	7515 Forest Glade Drive		Windsor	ON	N8T 3P5	519-948-9227 x240	picajose@cscprovidence.ca
Mun	School Board	Conseil Scolaire Catholique Providence	Director of Education	Carolyn	Bastien	7515 Forest Glade Drive		Windsor	ON	N8T 3P5	519-948-9227 x237	bastcaro@cscprovidence.ca
Mun	School Board	Lambton Kent District School Board	Director of Education	John	Howitt	200 Wellington Street		Sarnia	ON	N7T 7L2	519-336-1500 x31297	john.howitt@lkdsb.net
Mun	School Board	St. Clair Catholic District School Board	Director of Education	Scott	Johnson	420 Creek Street		Wallaceburg	ON	N8A 4C4	519-627-6762 x10240	scott.johnson@st-clair.net

= contact replaced or removed as requested

Warwick Public Liaison Committee

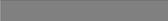
Category	Organization Name	Title	First	Last	Address	Address 2	City	Prov	Postal	Phone number	Email
WPLC	Warwick Public Liaison Committee	Chair	Mary Lynn	Metras			Thamesville	ON			
WPLC	Warwick Public Liaison Committee		Marcie	Parker			Watford	ON			
WPLC	Warwick Public Liaison Committee		John	O'Neil			Arkona	ON			
WPLC	Warwick Public Liaison Committee		Mac	Parker			Watford	ON			
WPLC/TRT	Garrod Pickfield LLP		Peter	Pickfield			Guelph	ON			
WPLC	Warwick Public Liaison Committee		Betsy	Rombouts			Watford	ON			
WPLC/TRT	Citizens Environmental Consulting		Wiif	Ruland			Dundas	ON			
WPLC	Warwick Public Liaison Committee	Councillor	Jerry	Westgate			Watford	ON			
WPLC	Warwick Public Liaison Committee		Lily	Braet			Watford	ON			
WPLC	Warwick Public Liaison Committee		Holly	Watson			Watford	ON			
WPLC	Warwick Public Liaison Committee		Gary	Worsfold			Watford	ON			
WPLC	Warwick Public Liaison Committee		Wiebren	De Boer			Watford	ON			
WPLC	Warwick Public Liaison Committee		Marilyn	Stephens			Watford	ON			
WPLC	Warwick Public Liaison Committee-Township	Mayor	Todd	Case			Watford	ON			
WPLC	Warwick Public Liaison Committee-Township	Councillor (Alternate)	Joe	Manning							
WPLC/MECP	Warwick Public Liaison Committee - MECP		Mike	Harris			Sarnia	ON			

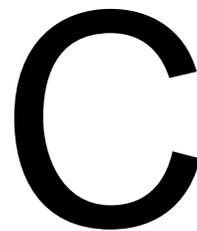
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Public

First Name	Last Name	Company	Address1	Address 2	City	Prov	Postal Code	Phone	Email
Ken and Sherry	Aarts				Watford	ON			
Elke	Aarts				Watford	ON			
Troy	Adams				Watford	ON			
Nancy	Aitken				Watford	ON			
Kiersten	Bisson				Warwick	ON			
Patricia	Bork				Watford	ON			
John & Violet	Caley				Watford	ON			
Kristina	Case				Watford	ON			
Alex	Ciccone	Garrod Pickfield LLP							
Carolyn	Cornelissen	2605487 Ontario Ltd.			Watford	ON			
Mike	Cornelissen	Cornelissen Farm Inc.			Watford	ON			
Bill	Davies				Watford	ON			
Wiebren	de Boer				Watford	ON			
Klaas	de Jong				Watford	ON			
Paul	de Rond				Watford	ON			
Laine and Nat	Facchin				Watford	ON			
Tracey	Fisher				Watford	ON			
Trisha	Flury				Watford	ON			
Marinda	Frayne				Watford	ON			
Adam	Gilliland				Watford	ON			
Gerard	Glavin				Arkona	ON			
Sara	Harper				Watford	ON			
John	Harris				Watford	ON			
robert	Hart				Arkona	ON			
Megan	Honkoop				Watford	ON			
Judy	Irwin				Watford	ON			
Ron	Jariott				Watford	ON			
Val	Johnson				Watford	ON			
Heather	Joosten				Watford	ON			
Sheila	Joris				Watford	ON			
Brian	Jubenville				Watford	ON			
Kim	Leliveld								
Paul	Leliveld				Watford	ON			
Sherie	MacLachlan				Watford	ON			
Taylor	Maris	Chatham-Kent Lambton Administrative School Services			Wallaceburg	ON			
Steve	McLean				Watford	ON			
Joseph	Mezenberg				Watford	ON			
Glen	Millar				Wyoming	ON			
P	Mitchell				Watford	ON			
Paul	Morden	The Sarnia Observer			Sarnia	ON			
Wayne	Morris				Watford	ON			
Pat	Muxlow				Watford	ON			
Cheryl	Muxlow				Watford	ON			
William	Nugent				Watford	ON			
Mac	Parker				Watford	ON			
Kevin	Peters				Watford	ON			
Sharon	Plunkett				Watford	ON			

First Name	Last Name	Company	Address1	Address 2	City	Prov	Postal Code	Phone	Email
Connie	Rankin				Watford	ON			
Greg	Rankin				Watford	ON			
Marion & Brian	Rankin				Watford	ON			
Steven	Roe				Watford	ON			
Betsy	Rombouts				Watford	ON			
Jacky	Saul				Watford	ON			
Shawn	Scott								
Christine	Shea				Watford	ON			
Kathy	Soetemans				Warwick Tow	ON			
Beth	Steele				Watford	ON			
John	Stephenson				Watford	ON			
Rebecca	Stewart	Libro Credit Union							
Anna-Lee	Straatman				Watford	ON			
Pete	Timmermans				Watford	ON			
Bill	Trenouth				Watford	ON			
Rebecca	Turner				Warwick	ON			
Jeremy	Van Haaren	All Season Excavating			Watford	ON			
Mike	Van Kessel				Warwick Twp	ON			
Larry	Van Lieshout				Watford	ON			
Chris	Van Loon				Watford	ON			
Dave	Vanos				Warwick Tow	ON			
John	Veeke				Arkona	ON			
Lynda/Frank	Veens/Vandeschoot				Watford	ON			
Chad	Verberne				Watford	ON			
Joe	Verstraten				Watford	ON			
Holly	Watson				Watford	ON			
Mary Ann	Williamson				Watford	ON			
Heather	Wright	The Petrolia-Lambton Independent							
Kathy	Zavitz				Watford	ON			
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		Twin Creeks Greenhouse			Watford	ON			
		Watford Cemetery Board			Watford	ON			

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Hackers have 20k Lambton SINS

Heather Wright
The Independent

Bluewater Health says up to 20,000 patients' social insurance numbers taken in the ransomware attack.

The Oct. 23 attack by the ransomware gang Daixin locked five southwestern Ontario hospitals out of their computers leading to surgeries, appointments and cancer treatment being delayed or cancelled. While the hackers made their way into the systems of five southwestern Ontario hospitals and multiple health care agencies, Bluewater Health bore the brunt of the impact.

After refusing to pay a ransom for information to unlock the systems, Daixin started releasing the information on the dark web.

The hospital, in a news release Nov. 9 confirmed the theft of a database report containing information about 267,000 patients dating to 1992. Included in that breach, 20,000 social insurance numbers of patients who used the Lambton county facilities.

Officials said the report included information about every patient seen since February 24, 1992 at Bluewater Health; Lambton Hospitals Group; Charlotte Eleanor Englehart Hospital; Sarnia General Hospital; and St. Joseph's Hospital. The database report may include patients' names, address, contact information, date of birth, demographic information, the reason for their visit and notes on prior visits as well as the social insurance numbers.

People whose SINS were taken will hear directly from the hospital as required by laws governing the privacy of health information.

The hospitals have been in contact with the Ontario's Information and Privacy office as required by the Personal Health Information Privacy Act. It also requires health care providers to take precautions to safeguard against theft, loss, as well as

unauthorized collection, use, disclosure, copying, modification or disposal of your personal health information. Health care organizations must "notify you, at the first reasonable opportunity, of the theft or loss or of the unauthorized use or disclosure of personal health information" and "of any uses and disclosures of your personal health information that occurred outside of their information practices and without your consent."

Bluewater Health will directly notify all those whose SIN was included in the database report, and will provide them with two years of credit monitoring.

Cyber security experts say personal data, including SINS, is plentiful and cheap on the dark web and is easily found by criminals who either want to extort money from people or who are trying to set up new identities.

Under regular circumstances, Canada Revenue Agency warns people not to provide SIN numbers on job applications or rental agreements saying in the wrong hands, your SIN could lead to an invasion of privacy, identify theft, loss of government benefits, tax refunds or bank credits. The CRA says if someone uses your SIN to commit fraud, it could ruin your credit rating or someone could also use your SIN to work illegally and the CRA would come looking for the income tax on the income you did not receive.

The CRA recommends people use a credit bureau to track your banking and credit card statements and if you notice any suspicious activity, CRA says to contact police and the Canadian Anti-Fraud Centre immediately.

If you have been affected by the data breach you have the right to file a complaint online with Ontario Information and Privacy Commission.

A patient cyber security hotline has been established at 519-437-6212 (8 am to 11 pm Monday through Friday). Staff questions can be directed to their HR teams.

Hack delaying long-awaited health care

Heather Wright
The Independent

Chrissy Jackson had been waiting since July for an MRI to figure out the extent of the damage in her shoulder. But she, like many other Lambton County patients, will have to wait a lot longer to get the answers they need.

The Petrolia area woman had an MRI scheduled for Nov. 17 but got a call Nov. 12 saying it had been cancelled after the ransomware attack at Bluewater Health.

And Jackson hasn't been given a time when she might be scheduled for another appointment. "All she said was 'I'll keep your request and call you when we can reschedule.' No time line what so ever."

Jackson is not alone. Transform Shared Services - the IT manager for area hospitals - says many appointments, cancer treatments and surgeries have been delayed in the wake of the attack. In a news release, Transform says because of the shutdown of the system, doctors may not have access to past patient records, medical histories, medication lists, reports from specialists on the case or pre-admission blood work.

"To ensure safe care, some physicians will have to cancel procedures if, in the absence of important information, they feel it is unsafe to proceed. If this is required, physicians will do their very best to reschedule as quickly as possible," Transform said.

However, as quickly as possible seems to be over a month away.

Transform says it will take some time to bring hospital computer systems back up to speed.

"We can confirm that the restoration process is on track. While it will still take some time before all affected critical systems are completely online, our teams are working around the clock to ensure the process is progressing as quickly and safely as possible. We are also working with leads at each hospital for a seamless return to service.

"This restoration is expected to be complete by mid-December. Delays will be reduced for patients once digital charting is restored. Please note that some patients and families may still experience diagnostic and treatment delays while we work to restore all systems."

Jackson says she was told by her physiotherapy provider it may be mid-December before she hears when she might have a new appointment for an MRI on her shoulder. And she's been told some people are being sent to regional hospitals not affected by the hack for help.

"Sadly, I don't know anything at this point. I'm going to call my surgeon because I'm hearing that some patients are being sent to London, Strathroy and even over to the US," she said.

But even with all the confusion and delays, Jackson says she's better off than most.

"My MRI isn't a life or death situation, but I feel for those whose is."

Notice of Public Information Session 2



Twin Creeks Environmental Centre Landfill Optimization Project Environmental Assessment

November 29 & December 5, 2023 | 4 - 8 PM
Twin Creeks Environmental Centre
5768 Nauvoo Road, Watford, ON N0M 2S0

WM Canada (WM), the owner and operator of the Twin Creeks Environmental Centre (TCEC) in Watford, Ontario, will be hosting **Public Information Session 2** for the TCEC Landfill Optimization Project Environmental Assessment (EA).

There are approximately 8 years of approved landfill airspace capacity remaining at the TCEC (i.e., capacity will be reached in approximately 2031). The Project would provide additional airspace of approximately 14 million cubic metres, which could extend the site life by approximately 12 years (from 2031 to 2043), and may be achieved through alternative landfill configurations or alternative methods within the existing 30L ha TCEC site area. No changes are proposed to the size of the TCEC site area, approved service area, or annual fill rate.

The purpose of the EA is to assess the potential effects of the Project on the environment.

For additional information on the project, please visit the project website:
www.wm.com/ca/en/twin-creeks-landfill/landfill-optimization-project

Public Information Session 2 is being held to:

- Provide an update on the EA
- Present a screening of Alternative Methods
- Provide a summary of Existing Conditions
- Present next steps in the EA Process
- Obtain your input

We value your engagement and look forward to discussing the project with you. You are welcome any time from 4 - 8 PM on November 29 and December 5.

If you have questions, please contact:

Wayne Jenken
Landfill Engineering
Manager, Canada Area
WM Canada
5768 Nauvoo Road,
Watford, ON N0M 2S0
519.849.5810
wjenken@wm.com

Larry Fedec, P.Eng., M.B.A.
Solid Waste Program Lead,
Canada
HDR Corporation
100 York Blvd., Suite 300,
Richmond Hill, ON L4B 1J8
289.695.4696
larry.fedec@hdrinc.com

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Obituaries

HENRY, (Laura) Dawn
April 16, 1977 - November 5, 2023

Dawn Henry, age 46, of Tempe, Arizona passed away on Sunday, November 5, 2023. Dawn is survived by her parents Mariena and Ralph, and her sister and best friend Tanya. She was born in Sarnia, Ontario, Canada but immigrated to the Phoenix area close to 20 years ago to escape the cold. She was a physical therapist and cared deeply for the many patients that she treated. Dawn loved staying active, hiking with her two dogs, family dinners, cocktail hour, ridiculous adventures, and travelling the world any chance she got. She was adored by her family and friends, and she adored them in return. She will be forever missed by those who loved her.

Friends are invited to a reception at The Smith Family Centre, 1576 London Line, Sarnia, on Sunday, November 19, from 1:00 to 4:00 p.m. to join in a celebration of Dawn's too short life.

In lieu of flowers donations to the Canadian Cancer Society in Dawn's memory would be appreciated. Memories and condolences may be sent online at smithfuneralhome.ca

Obituaries

KING, Alice

She was the thread that held our family quilt together. We are saddened to announce the passing of our beloved Alice King (nee Smith) on November 12, 2023 at the age of 80.

Alice immigrated from Holland as a little girl. She met and married Ken at a young age and they worked hard to build a life together and to provide opportunities for their four children. She is survived by her husband Ken and their children: Patty (Dave McCabe), Wanda (Michael Garrett), Lori (Jeff Emies) and Stephen (Norma Cannon-King).

Alice immigrated from Holland as a little girl. She met and married Ken at a young age and they worked hard to build a life together and to provide opportunities for their four children. She is survived by her husband Ken and their children: Patty (Dave McCabe), Wanda (Michael Garrett), Lori (Jeff Emies) and Stephen (Norma Cannon-King).

Her little dog Lily will miss her so much. She made many happy memories with her children and grandchildren and has left them a piece of her in stained glass pieces and quilts that were made with so much love and care! She was happiest gardening, sewing or doing any artistic project she undertook. She was an accomplished self taught seamstress. She worked hard and taught her kids and grandkids the value of a good work ethic and that a quiet life filled with family, a dog and laughter was a good life! She will be missed by all the friends she made through quilting, crafting and camping.

Cremation has taken place. Family and friends will be received on Sunday, November 19, 2023 at Smith Funeral Home, 1576 London Line, Sarnia from 4:00 to 6:00 p.m. A memorial service will be held to celebrate Alice's life at the funeral home on Monday, November 20, 2023 at 11:00 a.m. A private interment of ashes will take place at Resurrection Cemetery.

In lieu of flowers, sympathy may be expressed through donations to Sarnia & District Humane Society or the Canadian Cancer Society (cheques only at the funeral home please). Memories and condolences may be sent online www.smithfuneralhome.ca

Obituaries

PATERSON, Janice
Jul 8, 1944 - Nov 13, 2023

Janice Faith Paterson of Sarnia passed away peacefully on Monday November 13th. Janice is preceded by her parents John and Barbara Halwachs. She is survived by her husband John, son Gord, daughter Stacey Krossey (Steve), brother Ken Halwachs (Sandy), and sister Bonnie Lindsay (Sue Seltzer).

Janice was a wonderful wife and mom. She loved being in nature, spent many years camping, gardening in the backyard or taking her beloved dog, Freddy for walks to the Samia Bay.

Cremation has taken place. In keeping with Janice's wishes, no services will be held. Sympathy may be expressed through donations to Sarnia & District Humane Society.

HUGHES, Audrey
1935 - 2023

Peacefully on Monday November 13, 2023, at Marshall Gowland Manor, at the age of 88. Loving mother of Andrew (Cheryl), David, Andrea Coleman (Rich), Cherished grandma of Andrew, Jonathan, Anthony, Shane, and Samantha, and great grandma of Payton and Olivia. Survived by her sister Jennifer Marshall (John). Predeceased by her brother Bobby Brown. Audrey was a member of the Sarnia Little Theatre from 1975 to 2011. Family and friends will be received at St. John's in the Wilderness Anglican Church, 2896 Old Lakeshore Road, Brights Grove for a Memorial Service on Saturday November 18 at 2 p.m. Interment to follow at Blackwell Cemetery. Remembrances and condolences may be expressed to the family online in "Audrey's Guestbook" at mccormackfuneralhomesarnia.com.

If desired, donations to St. John's in the Wilderness Church in Brights Grove or the Dialysis Unit at Bluewater Health would be appreciated.

HUGHES, Audrey
1935 - 2023

Peacefully on Monday November 13, 2023, at Marshall Gowland Manor, at the age of 88. Loving mother of Andrew (Cheryl), David, Andrea Coleman (Rich), Cherished grandma of Andrew, Jonathan, Anthony, Shane, and Samantha, and great grandma of Payton and Olivia. Survived by her sister Jennifer Marshall (John). Predeceased by her brother Bobby Brown. Audrey was a member of the Sarnia Little Theatre from 1975 to 2011. Family and friends will be received at St. John's in the Wilderness Anglican Church, 2896 Old Lakeshore Road, Brights Grove for a Memorial Service on Saturday November 18 at 2 p.m. Interment to follow at Blackwell Cemetery. Remembrances and condolences may be expressed to the family online in "Audrey's Guestbook" at mccormackfuneralhomesarnia.com.

If desired, donations to St. John's in the Wilderness Church in Brights Grove or the Dialysis Unit at Bluewater Health would be appreciated.

Nothing is really lost as long as you remember it.

— John C. Maxwell

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pchurchill@postmedia.com

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Route - SF300-Point Edward
This route is located on Arthur and Emest. It has 44 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx. \$14.96

Route - SF418
This route is located on Hay and Rocco. It has 42 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx. \$14.28

Route - SF202
This route is located on Bright, Cameron, Cobden, Cromwell, Colleen N Fourth N, Euphemia N and Lochiel. 197 flyers to be delivered once a week (Thurs) Profit every two weeks would be approx. \$66.98

Route SF83
This route is located on Carter, Champlain, Marquette and Thomas. It has 64 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$21.76

SF4001
This route is located on Davis, Kathleen, Mackenzie South and Wellington St. It has 153 flyers to be delivered once a week (Thurs) Profit every two weeks would be approx. \$52.02

SF299 - Wiltshire
This route is located on Darbunyk Shetfield. It has 49 flyers to be delivered once a week (Thurs) Profit every two weeks would be approx. \$16.66

SF240
This route is located on Bond, Guthrie and Jordan. It has 40 flyers to be delivered once a week (Thurs) Profit every two weeks would be approx. \$13.60

SF241
This route is located on Flamingo & Highway. It has 80 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx. \$16.21

Penny Churchill @ 519-344-3641, Ext. 5
pchurchill@postmedia.com

Customer Service

Sarnia & Lambton County This Week

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Route SF1010 - Townhouses - Cornna
This route is located at 351 & 357 Murray St. It has 41 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx. \$15.94

SF532 - Brights Grove
This route is located on Lakewood & Lisa. It has 40 flyers to be delivered once a week (Thurs) Your profit every 2 weeks would be approx. \$13.60

Route SF100 - Brights Grove
This route is located on Avenue Rd, Frances, and Mary's Lane. It has 67 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$22.76

Route 913 - Camlachie
This route is located on Cardinal, Donaldson, Franklin, Hummingbird, Mockingbird, Pleasant and Sandpiper. It has 66 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$18.04

Route 346 - Brights Grove
This route is located on Driftwood. It has 30 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$10.89

Contact Penny Churchill
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This route is located on Cardinal, Donaldson, Franklin, Hummingbird, Mockingbird, Pleasant and Sandpiper. It has 66 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$18.04

Route 346 - Brights Grove
This route is located on Driftwood. It has 30 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$10.89

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Carriers Wanted

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 Route - SF3001-Point Edward
 This route is located on Arthur and Ernest. It has 44 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx. \$14.96.
 Route - SF418
 This route is located on Hay and Rocco. It has 42 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx \$14.28.
 Route - SF2002
 This route is located on Bright, Cameron, Cobden, Cromwell, College N, Forsyth N, Euphemia N and Lochiel. 197 flyers to be delivered once a week (Thurs) Profit every two weeks would be \$66.98.
 Route SF83
 This route is located on Cartier, Champlain, Marquette and Thomas. It has 64 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$21.76.
 SF4001
 This route is located on Davis, Kathleen, Mackenzie South and Wellington St. It has 153 flyers to be delivered once a week (Thurs) Profit every two weeks would be approx \$52.02.
 SF299 - Wiltshire
 This route is located on Danbury & Sheffield. It has 49 flyers to be delivered once a week (Thurs) Profit every two weeks would be approx. \$16.66.
 SF240
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Delivery every Thursday before 9pm

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Notice of Public Information Session 2

Twin Creeks Environmental Centre Landfill Optimization Project | Environmental Assessment

November 29 & December 5, 2023 | 4 - 8 PM
Twin Creeks Environmental Centre, 5768 Nauvoo Road, Watford, ON N0M 2S0

WM Canada (WM), the owner and operator of the Twin Creeks Environmental Centre (TCEC) in Watford, Ontario, will be hosting **Public Information Session 2** for the TCEC Landfill Optimization Project Environmental Assessment (EA).

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The purpose of the EA is to assess the potential effects of the Project on the environment.

For additional information on the project, please visit the project website:
www.wm.com/ca/en/twin-creeks-landfill/landfill-optimization-project.

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- Provide a summary of Existing Conditions
- Present next steps in the EA Process
- Obtain your input

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If you have questions, please contact:

Wayne Jenken Landfill Engineering Manager, Canada Area WM Canada 5768 Nauvoo Road, Watford, ON, N0M 2S0 519.849.5810 wjenken@wm.com	Larry Fedec, P.Eng. M.B.A. Solid Waste Program Lead, Canada HDR Corporation 100 York Blvd., Suite 300, Richmond Hill, ON L4B 1J8 289.695.4696 larry.fedec@hdrinc.com
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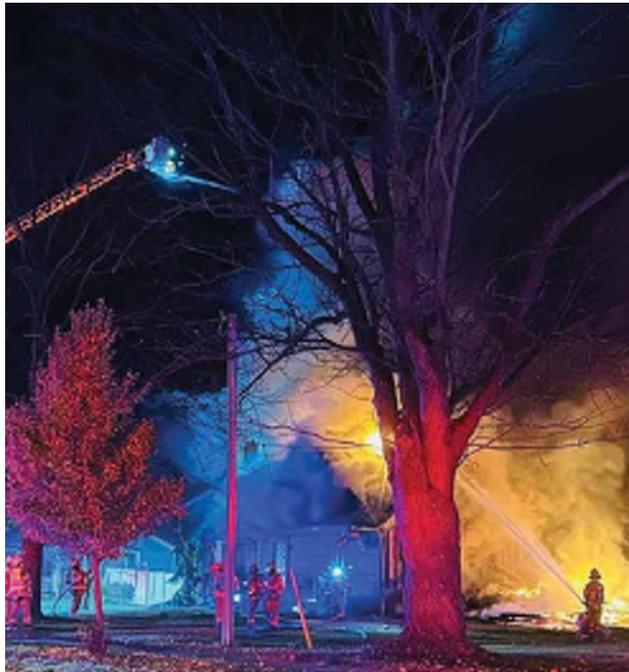


PHOTO BY PETROLIA/NORTH ENNISKILLEN FIRE

Firefighters from Wyoming and Petrolia work to contain a blaze at a Broadway St. home Monday. The home was destroyed and authorities are still trying to determine what started the fire.

Wyoming steps up to help fire victims

Heather Wright
The Independent

Samantha Freer was stunned when the doors to the Wyoming fire hall opened Monday.

The Wyoming woman, working with the fire department, organized a time for people to drop off donations at the hall for a couple who lost their home to a fire early that morning.

Around 2 am Monday, Wyoming firefighters were called out to a home on Broadway Street for a garage fire, Plympton-Wyoming Fire Chief Erik Campbell says.

The garage – with a vehicle inside – was already engulfed by flames.

Petrolia/North Enniskillen firefighters were called in to help. The garage was destroyed, and the wood sided home – part of which remains standing – was also extensively damaged.

“It’s pretty safe to say the home is going to be written off,” says the chief. Campbell says the department is working with the Ontario Fire Marshal’s office but it is still in the early stages of the investigation. He says the blaze doesn’t look suspicious at this time.

“Everyone got out safely thanks to working smoke alarms,” says Campbell.

A couple lives at the home and that night, one was at work when the fire started. One person and two dogs left the home in the

early morning hours.

“They lost everything,” says Freer, adding people started asking where to drop off donations as soon as the word made the rounds.

So, she organized the one-hour drop off and opened the doors.

“It was overwhelming the amount of people who brought in clothes and shoes, gift cards...it was overwhelming to say the least.”

Freer says people even brought food for the couple’s two dogs.

In that one hour, Freer saw many of her neighbours and young families bringing kids, she believes, to show them what a community can do in the face of an emergency.

The gifts collected in that hour will be more than the couple needs, says Freer. The remainder will go to a charity, maybe the River City Vineyard, to help others in need.

And, for the next little while, anyone who would like to contribute a gift card to help the couple get through this difficult time, they can drop them off at the Plympton-Wyoming municipal office during regular business hours.

Freer was moved by the generosity of her neighbours. “The devastation of seeing them losing their house touched people,” she says.

“It’s the time of the year, too,” she says of people’s need to give. “People are feeling generous and are wanting to do something.”

Edward St. likely to be 2024 home of soccer

While COPE Construction has begun work on the new soccer pitches at Petrolia’s Oil Heritage Community Centre, the town is planning for another season of soccer on Edward Street.

The town recently approved \$1.3 million to tile and prepare the fields and build a

new 100-car parking lot at the Y. But it also extended an agreement with Floyd Vanderwall for the use of the Edward St. soccer pitches until Oct. 2024.

VanderWall provides the land - which will eventually be housing - for the cost of the taxes on the land.

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- Provide a summary of Existing Conditions
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Wayne Jenken Landfill Engineering Manager, Canada Area WM Canada 5768 Nauvoo Road, Watford, ON N0M 2S0 519.849.5810 wjenken@wm.com	Larry Fedec, P.Eng., M.B.A. Solid Waste Program Lead, Canada HBR Corporation 100 York Blvd., Suite 300, Richmond Hill, ON L4B 1J8 289.695.4696 larry.fedec@hbrinc.com
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Route SF1010 - Townhouses - Corunna
 This route is located at 351 & 357 Murray St. It has 41 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx \$13.94.

SF532 - Brights Grove
 This route is located on Lakewood & Lisa. It has 40 flyers to be delivered once a week (Thurs) Your profit every 2 weeks would be approx. \$13.60.

Route SF100 - Brights Grove
 This route is located on Avenue Rd, Frances, and Mary's Lane. It has 67 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$22.78.

Route 913 - Camlachie
 This route is located on Cardinal, Donaldson, Franklin, Hummingbird, Mockingbird, Pheasant and Sandpiper. It has 56 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$19.04.

Route 346 - Brights Grove
 This route is located on Driftwood. It has 32 flyers to be delivered once a week (Thurs). Your profit every two weeks would be approx. \$10.88.

Contact Penny Churchill
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 This route is located on Eastlawn, Exmouth, Highway and Netherlands. It has 95 flyers to be delivered once a week- (Thurs) Your profit every two weeks would be approx. \$32.30.

Route - SF163
 This route is located on Webster and Willowbrook. It has 46 flyers to be delivered once a week. (Thurs) Profit every two weeks would be approx. \$15.64

Route - SF3001-Point Edward
 This route is located on Arthur and Ernest. It has 44 flyers to be delivered once a week (Thurs) Your profit every two weeks would be approx. \$14.96.

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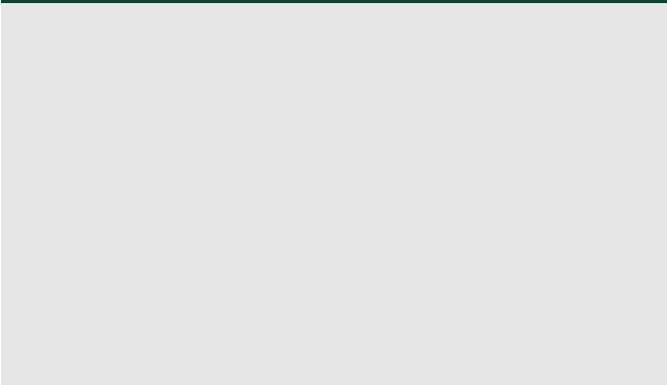
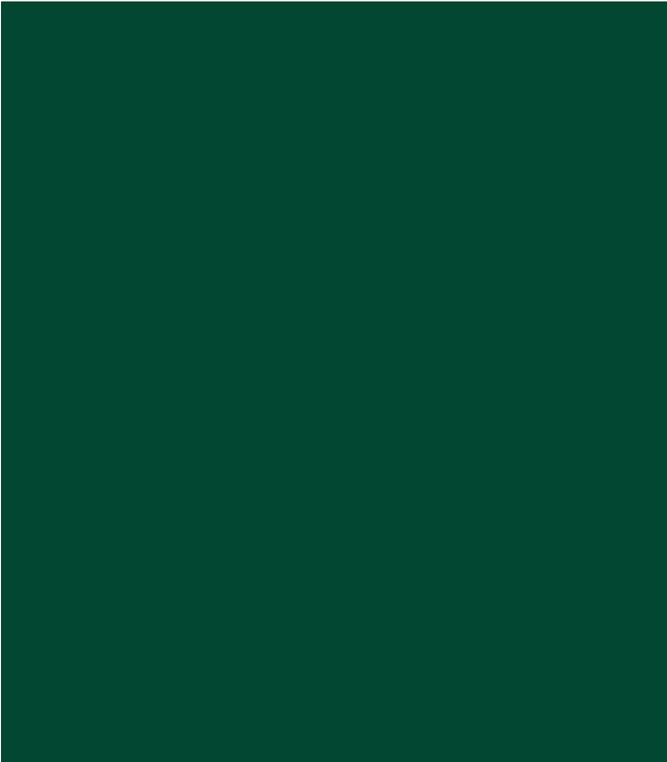
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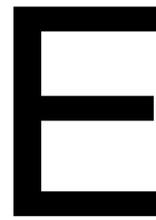
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Public Information Session 2

Twin Creeks Environmental Centre Landfill Optimization Project EA
November 29, 2023
5768 Nauvoo Road, Watford, ON N0M 2S0

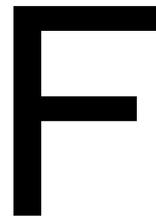
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Public Information Session 2

Twin Creeks Environmental Centre Landfill Optimization Project EA
December 5, 2023
5768 Nauvoo Road, Watford, ON N0M 2S0

Name	Address	Phone Number	Email
MIKE SNOW	[REDACTED]	[REDACTED]	[REDACTED]
TEAD CASE			
JASON COLE			
PAUL LELIVELD			

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Public Information Session
Content



Twin Creeks Environmental Centre

Landfill Optimization Project Environmental Assessment

Public Information Session 2

November 29 & December 5, 2023

Welcome

Public Information Session 2 is being held to present the following:

- Update on the Environmental Assessment (EA)
- Screening of Alternative Methods
- Review of Approved Evaluation Criteria
- A Summary of Existing Conditions
- Next steps in the EA Process
- Consultation and Engagement Opportunities

WM staff and consultants are available to answer your questions

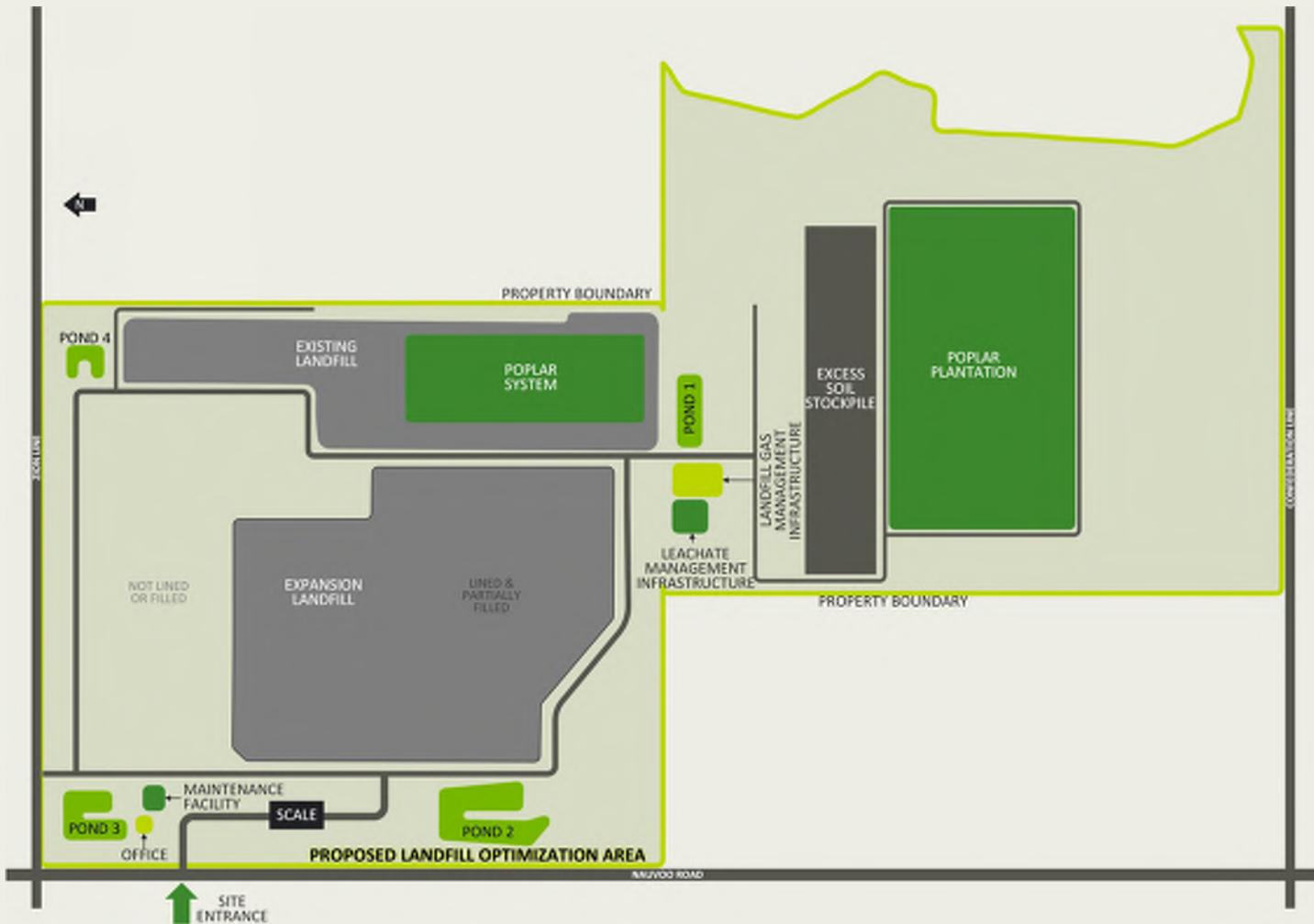


Site Overview



Twin Creeks Environmental Centre Overview	
Year Opened	1972
First Year Operated by WM	1996
Projected Life Remaining	-8.4 years
Total Area	301 ha
Permitted Landfill Footprint	101.8 ha
Approved Capacity	-26.5M m ³
Remaining Capacity	-11.6M m ³
Annual Fill Rate	1.4M tonnes/year

Project Overview



The purpose of the project is to provide **additional landfill airspace of up to approximately 14M m³** and **extend site life by approximately 12 years** (from 2031 to 2043).

This would be achieved through **optimizing the Expansion Landfill design and operation**, maximizing the use of the constructed infrastructure and significant investment made at the Twin Creeks Environmental Centre.

The additional capacity would be achieved through either a **vertical expansion within the currently-approved 101.8 ha Expansion Landfill footprint** or a **horizontal expansion within the 301 ha site**.

No changes are proposed to the:

- current 301 ha site area
- approved service area
- annual fill rate

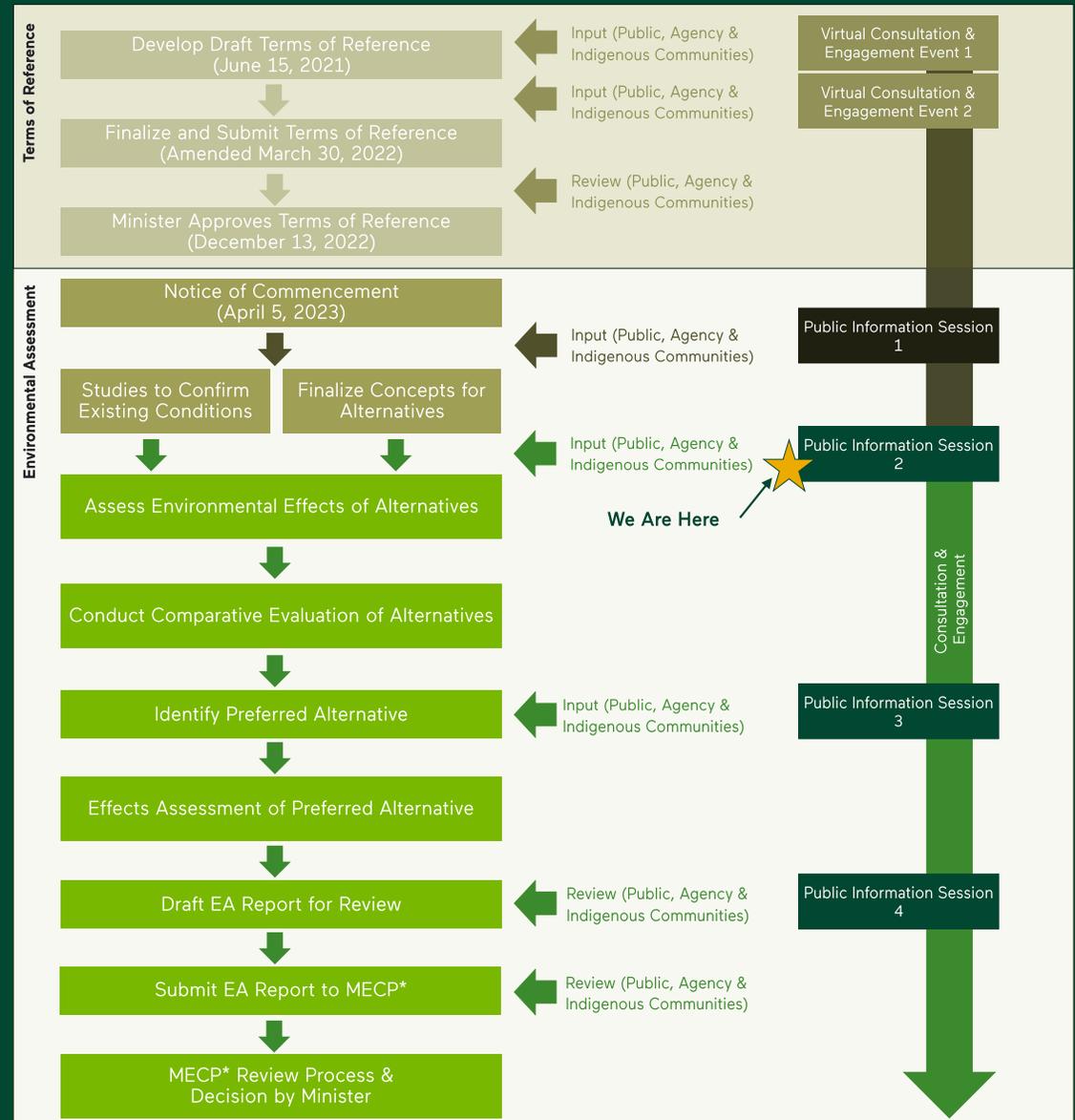
Environmental Assessment Update

The Environmental Assessment (EA) is being carried out according to the approved Terms of Reference and the requirements of the *Ontario Environmental Assessment Act*.

Studies to confirm existing conditions have been undertaken and documented in draft Existing Conditions Reports. These reports are available for public review.

Representative concepts for vertical and horizontal alternative methods have been developed and evaluated to determine the alternative methods that will be assessed in the EA.

The next step is the assessment of the environmental effects of the alternative methods, which will be documented in a series of Effects Assessment Reports.



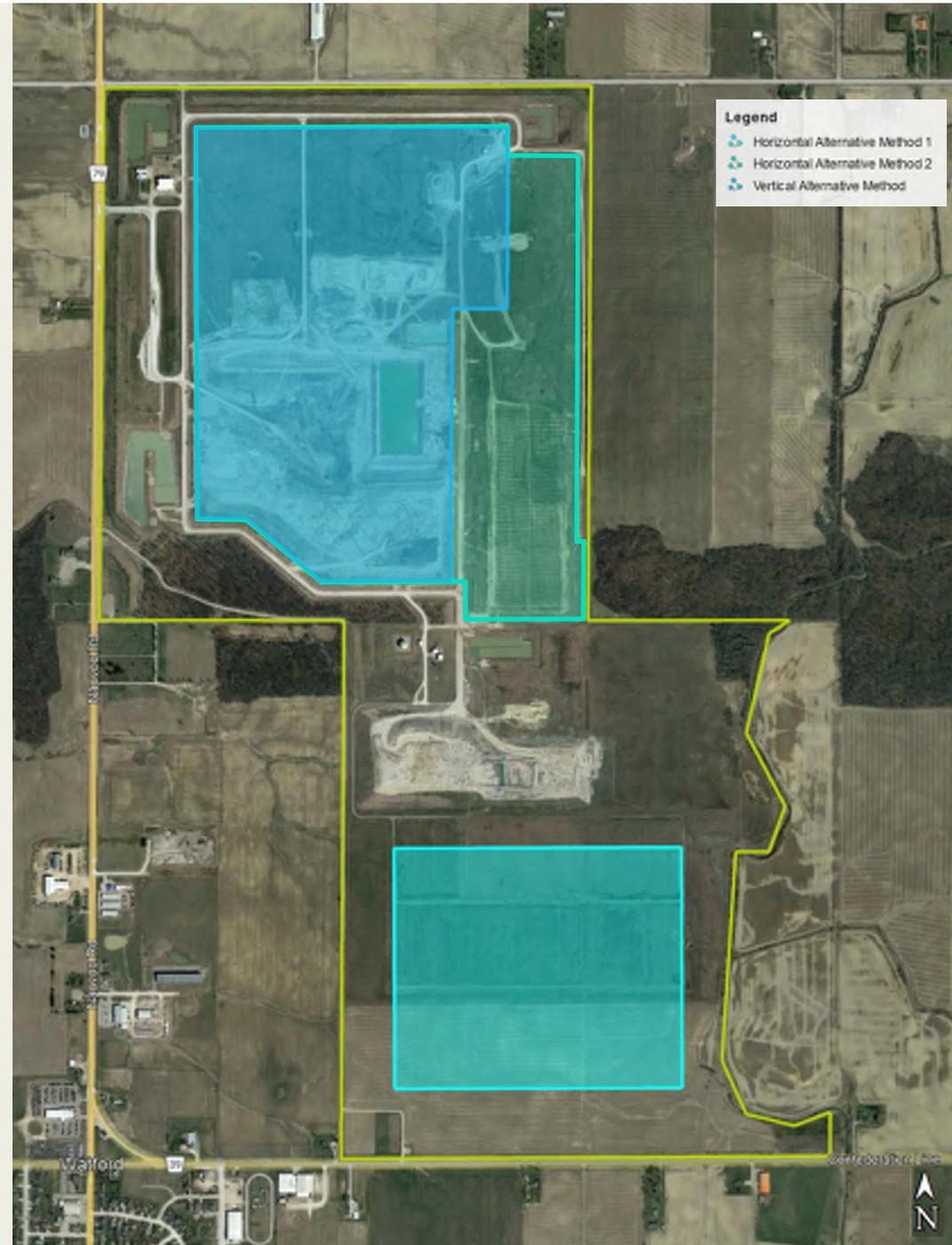
*MECP = Ministry of Environment, Conservation and Parks



Alternative Methods

Three Alternative Methods were developed:

Alternative Method	Description
Vertical Alternative Method	This vertical alternative method was developed to be representative of all vertical alternative methods. The representative vertical alternative method is contained within the approved Expansion Landfill footprint within the northern half of the TCEC site. This alternative method will cover an area of 75.4 ha and will provide a capacity of approximately 14,000,000 m ³ , which would extend the site life by about 12 years.
Horizontal Alternative Method 1	This horizontal alternative method was developed to be representative of all horizontal alternative methods in the southern half of the TCEC site. Horizontal Alternative Method 1 is located south of the existing soil stockpile. This alternative method will cover an area of 43.2 ha and will provide a capacity of approximately 14,000,000 m ³ , which would extend the site life by about 12 years.
Horizontal Alternative Method 2	Horizontal Alternative Method 2 is located within the eastern portion of the northern half of the TCEC site and includes both the Expansion Landfill and Old Landfill footprints. This alternative method will cover an area of 101.8 ha and will provide a capacity of approximately 14,000,000 m ³ , which would extend the site life by about 12 years.



Alternative Methods Screening

The three Alternative Methods were evaluated and compared against each other using criteria consisting of:

- Cost and Constructability considerations
- Technical considerations
- Environmental considerations
- Social and Cultural considerations
- Land Use considerations

Criteria	Indicator
Cost & Constructability Considerations	
Landfill Capacity	Landfill capacity provided by the alternative method.
Site Life Extension	Potential site life extension for the landfill based on the estimated landfill capacity.
Required infrastructure	Infrastructure required but not currently available in the proposed landfill area.
Upgrades to existing infrastructure	Infrastructure present in the landfill area that requires upgrades.
Required site development	Site development required to accommodate the alternative method.
Required permits and approvals	Nature and complexity of required permits and approvals.
Technical Considerations	
Excavation requirements	Excavation required to accommodate the alternative method.
Soil stockpiling requirements	Soil stockpiling requirements for the alternative method.
Liner requirements	Liner system required for the alternative method.
Landfill gas management	Landfill gas management required for the alternative method.
Leachate management	Leachate management required for the alternative method.
Stormwater management	Stormwater management required for the alternative method.
Haul distance on site	Distance from the weigh scale to the alternative method along on-site roadways.

Criteria	Indicator
Environmental Considerations	
Air Quality, Odour, and Noise	Changes in potential effects on air quality, odour, and noise.
Surface Water	Changes in potential effects on surface water.
Groundwater	Changes in potential effects on groundwater.
Vegetation Removal	Extent of vegetation removal required for landfill development.
Social & Cultural Considerations	
Residential Areas and Sensitive Receptors	Proximity to residential areas and sensitive receptors.
Cultural Heritage and Archaeological Resources	Proximity to cultural heritage sites, structures, areas of significance, archaeological resources, historic artifacts, or historic sites.
Agricultural Land	Proximity to agricultural lands.
Land Use Considerations	
Zoning	Compatibility with existing zoning.
Land Use	Compatibility with current and planned land use.



Summary of Screening Results

Criteria		Indicator	Vertical Alternative Method	Horizontal Alternative Method 1	Horizontal Alternative Method 2
Cost & Constructability Considerations					
Landfill Capacity	Landfill capacity provided by the alternative method.		Approximately 14,000,000 m ³	Approximately 14,000,000 m ³	Approximately 14,000,000 m ³
Site Life Extension	Potential site life extension for the landfill based on the estimated landfill capacity.		About 12 years	About 12 years	About 12 years
Required infrastructure	Infrastructure required but not currently available in the proposed landfill area.		Only upgrades required.	New LFG collection system, leachate collection system, and new on-site access roads.	New LFG collection system and new on-site access road.
Upgrades to existing infrastructure	Infrastructure present in the landfill area that requires upgrades.		Expansion of LFG collection system within the landfill.	Additional leachate pump stations, holding tank or forcemain. LFG upgrades for pressure loss from new LFG system.	Existing leachate collection system within Old Landfill may need substantial upgrades.
Required site development	Site development required to accommodate the alternative method.		Potential addition to visual screening berms.	Excavation, stormwater management (ditches/pond), visual screening berms.	Relocation of poplar forest, final cover removal, potential stormwater management, potential visual screening berms.
Required permits and approvals	Nature and complexity of required permits and approvals.		EA, Environmental Compliance Approvals, Official Plan Amendments.	EA, Environmental Compliance Approvals, Official Plan Amendments, Zoning By-law Amendment.	EA, Environmental Compliance Approvals, Official Plan Amendments.
Technical Considerations					
Excavation requirements	Excavation required to accommodate the alternative method.		None.	Excavation of 43.2 ha to 10 m below ground.	Excavation of final cover, waste within Old Landfill, and area between Expansion Landfill and Old Landfill.
Soil stockpiling requirements	Soil stockpiling requirements for the alternative method.		None.	Substantial stockpiling of excavated soil will be required.	Stockpiling of removed final cover materials and excavation of area between the Expansion Landfill footprint and the Old Landfill area.
Liner requirements	Liner system required for the alternative method.		None.	A full engineered base liner will be required.	An engineered base liner will be required between the Expansion Landfill footprint and the Old Landfill area. The Old Landfill area was constructed without an engineered base liner.
Landfill gas management	Landfill gas management required for the alternative method.		LFG collection system will require expansion.	Requires new LFG collection system, upgrades to existing LFG collection system.	Requires new LFG collection system.
Leachate management	Leachate management required for the alternative method.		No changes required.	Requires new leachate collection system and upgrades to existing system (pump stations/forcemain).	Existing leachate collection system in Old Landfill may require substantial upgrades.
Stormwater management	Stormwater management required for the alternative method.		No changes required.	Stormwater management required including new drainage ditches and pond.	Additional stormwater management may be required.
Haul distance on site	Distance from the weigh scale to the alternative method along on-site roadways.		No changes required.	~2 km of additional haul distance	~1.6 km of additional haul distance

Summary of Screening Results

Criteria	Indicator	Vertical Alternative Method	Horizontal Alternative Method 1	Horizontal Alternative Method 2
Environmental Considerations				
Air Quality, Odour, and Noise	Changes in potential effects on air quality, odour, and noise.	Potential effects on air quality, odour, and noise would occur within the same general area.	Potential air quality, odour, and noise effects would occur closer to sensitive receptors in Watford and the south end of the TCEC site.	Potential air quality, odour, and noise effects would occur closer to neighbouring residences and businesses to the east of the TCEC site.
Surface Water	Changes in potential effects on surface water.	Unlikely that surface water off-site will be affected.	There may be changes to stormwater drainage patterns and potential effects on surface water flows to Brown Creek and surrounding lands due to required changes in stormwater management.	Unlikely that surface water off-site will be affected.
Groundwater	Changes in potential effects on groundwater.	No changes anticipated.	There may be changes to groundwater quantity from reduced infiltration rates caused by the excavation of 43.2 ha area to 10 m below ground.	There may be changes to groundwater quality because the Old Landfill was constructed without an engineered base liner.
Vegetation Removal	Extent of vegetation removal required for landfill development.	None.	Removal of vegetation within the footprint and for access roads.	The existing poplar forest located on the south corner of the Old Landfill Area will be required to be compensated. Removal of the final cover will be required.
Social & Cultural Considerations				
Residential Areas and Sensitive Receptors	Proximity to residential areas and sensitive receptors.	No change to proximity to residential areas and sensitive receptors.	Much closer to Watford, residential receptors to the south of the TCEC site, and nearby recreational facilities such as the Watford Dog Park and East Lambton Community Complex.	Closer to residential receptors to the east of the TCEC site and neighbouring farms and businesses.
Cultural Heritage and Archaeological Resources	Proximity to cultural heritage sites, structures, archaeological resources, historic artifacts, or historic sites.	No change to proximity to cultural heritage and archaeological resources.	Much closer to archaeological resources located in the southeast corner of the TCEC site (within 250 m).	Slightly closer to archaeological resources located in the southeast corner of the TCEC site.
Agricultural Land	Proximity to agricultural lands.	No change to proximity to agricultural lands.	Located partially within existing agricultural lands at the south end of the TCEC site.	Directly adjacent to neighbouring agricultural lands to the east.
Land Use Considerations				
Zoning	Compatibility with existing zoning.	Compatible with existing zoning.	Zoning By-law Amendment required for the use of the agricultural area at the south end of the TCEC site.	Compatible with existing zoning.
Land Use	Compatibility with current and planned land use.	No changes to land use.	Partially compatible with existing land use. Land at the south end of the site is currently used for agriculture.	Partially compatible with existing land use. Land at the east side of the site is used for a closed landfill and a poplar plantation for leachate management.

The results of the screening indicate that the representative Vertical Alternative Method is preferred over the Horizontal Alternative Methods. Additional vertical Alternative Methods will be developed within the same footprint for assessment in the EA.

Approved Evaluation Criteria

The evaluation criteria consider the environments outlined by the MECP including Natural Environment, Socio-Economic Environment, Cultural Environment, and Built Environment.

Evaluation Criteria	Rationale	Indicators
Natural Environment		
Atmospheric Environment		
Air Quality		
Blowing Litter	Waste disposal site and associated operations can release litter, which may be blown to the surround areas.	<ul style="list-style-type: none"> • Extent of zones potentially impacted by blowing litter. • Number of off-site receptors potentially affected (e.g., residential properties, public facilities, businesses/farms odour sensitive area(s), institutions).
Landfill Gas and Combustion By-Products	Waste disposal site and associated operations can emit gaseous contaminants that can degrade air quality.	<ul style="list-style-type: none"> • Off-site point of impingement air concentrations of indicator compounds at identified receptors in the immediate vicinity of the site, and community (within 5 km). • Frequency of any exceedance of applicable standards, limits, or guidelines at identified receptors. • Number of off-site receptors potentially affected (e.g., residential properties, public facilities, businesses/farms, institutions).
Dust	Construction and operation activities at a waste disposal site can lead to increased levels of particulates (dust) in the air.	<ul style="list-style-type: none"> • Off-site point of impingement air concentrations of particulate matter (dust) compounds at identified receptors in the immediate vicinity of the site, and community. • Frequency of any exceedance of applicable standards, limits, or guidelines at identified receptors. • Number of off-site identified receptors potentially affected (e.g., residential properties, public facilities, businesses/farms, institutions). • Both operational and construction activities occurring in each of the future operational stages of the landfill considered in the assessment will be independently identified, described, and assessed.
Odour	Waste disposal site and associated operations can emit contaminants that generate odorous emissions.	<ul style="list-style-type: none"> • Off-site odour concentrations (odour units) at identified odour sensitive receptors in the immediate vicinity of the site. • Frequency of any odour levels above defined odour benchmarks. • Number of off-site receptors potentially affected (e.g., residential properties, public facilities, businesses/farms odour sensitive area(s), institutions).
Noise	Activities related to construction/rehabilitation, operation of the landfill and ancillary facilities, and the offsite haul route can result in an increase in off-site noise levels.	<ul style="list-style-type: none"> • Predicted site-related noise levels (measured in dBA or dBAI). • Change in sound levels (dB).

Approved Evaluation Criteria

Evaluation Criteria	Rationale	Indicators
Natural Environment (continued)		
Geology and Hydrogeology		
Groundwater Quality	Contaminants associated with waste disposal at the TCEC have the potential to enter the groundwater and impact on-site groundwater. Acceptable groundwater quality, which is 80% of the Guideline B-7 criteria for the PLIL parameters, must be shown at the TCEC boundaries.	<ul style="list-style-type: none"> • Predicted effects on groundwater quality on-site from increased waste quantities disposed within the Expansion Landfill. • Predicted contaminating lifespan.
Groundwater Quantity	The landfill optimization has the potential to affect the established hydraulic trap design for the Expansion Landfill and understood groundwater flow patterns on-site and off-site.	<ul style="list-style-type: none"> • Predicted effect of landfill optimization on groundwater flow and quantity both on-site and off-site.
Surface Water Environment		
Surface Water Quality	The landfill optimization has the potential to affect surface water quality through either possible leachate seepage through the landfill cap increased erosion of the landfill clayey soil cap or track-out of Automobile Shredder Residue (ASR) wastes off-site.	<ul style="list-style-type: none"> • Predicted effects on surface water quality on-site prior to off-site discharge. • Predicted effects from polyaromatic hydrocarbons (PAHs), in ASR, on surface water quality within the roadside ditch of the northbound lane of Nauvoo Road from the TCEC to Hwy 402 in the Off-Site Study Area.
Surface Water Quantity	Construction of physical works may disrupt natural surface drainage patterns and may alter runoff and peak flows. The presence of the expanded landfill may also affect base flow to surface water.	<ul style="list-style-type: none"> • Change in runoff volumes and peak flows resulting from steeper and longer side slopes. • Changes to drainage areas on-site and off-site. • Predicted occurrence and degree of off-site effects to surface water flows.
Ecological Environment		
Terrestrial Ecosystems	Continued or expanded operation of the waste disposal facility may disturb the functioning of natural terrestrial habitats, including rare, threatened, or endangered species.	<ul style="list-style-type: none"> • Predicted effects on vegetation communities and species including rare, threatened, or endangered species. • Predicted effects on wildlife and wildlife habitat including rare, threatened, or endangered species.
Aquatic Ecosystems	Continued or expanded operation of the waste disposal facility may disturb the functioning of natural aquatic habitats and species, including rare, threatened, or endangered species.	<ul style="list-style-type: none"> • Predicted effects on aquatic habitat, including fish habitat. • Predicted effects on aquatic biota including rare, threatened, or endangered species.



Air Quality Existing Conditions

Existing site is approved and monitored. Operations include measures to reduce the potential for impacts.

Dust

- 10 dust complaints related to track-out (2009-2023) – 60% in 2021 when ASR was used as daily cover material; 1 complaint in 2022 regarding track out.
- Modelling of existing conditions showed few exceedances of applicable criteria (24-hour TSP and 24-hour PM₁₀ at 4 locations, with frequency of maximum 0.4% and 0.2%, respectively).

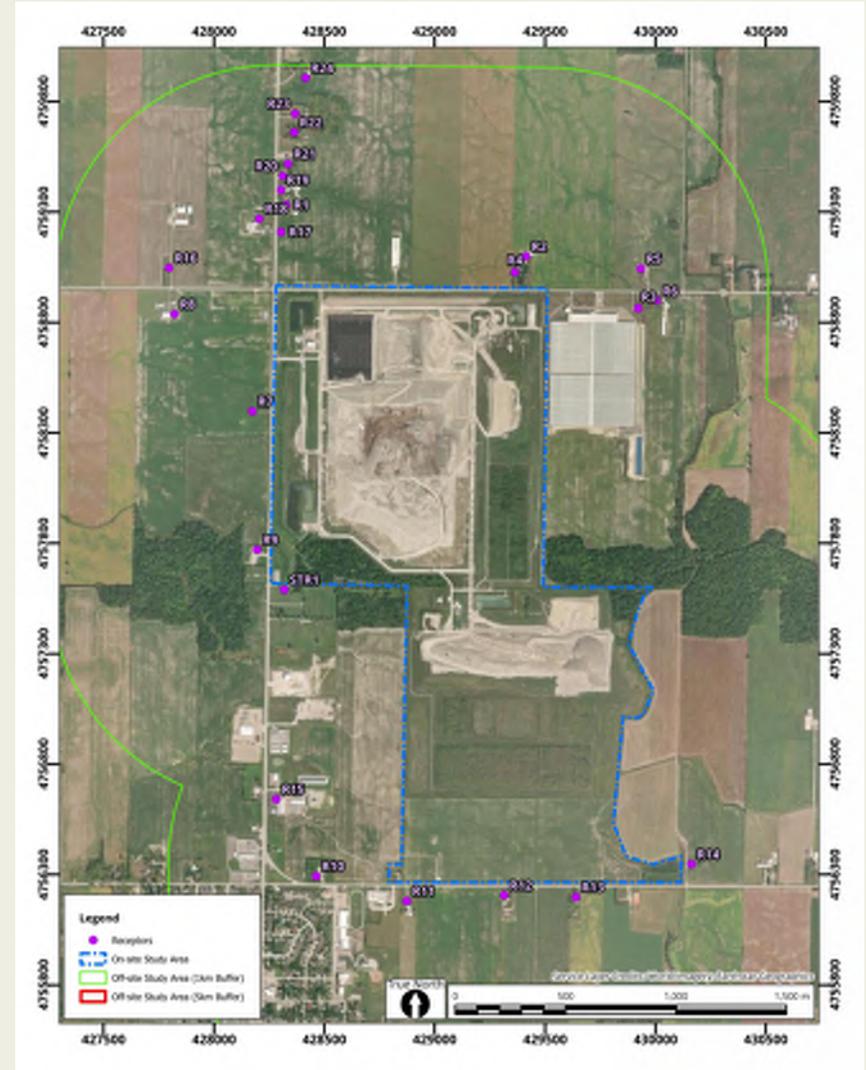
Litter

- 14 litter complaints received (2019-2023). Blowing litter effects are actively managed through the Blowing Litter BMPP to minimize off-site impacts and resolve complaints.

Landfill Gas and Combustion By-products

- Concentrations comply with applicable criteria except for 10-minute H₂S, and 10-minute and 24-hour TRS, which are predicted to exceed applicable criteria due to high background concentrations; very little contribution (<10%) from landfilling activities. The 10-minute criteria is related to odours and more details are provided in the odour section.

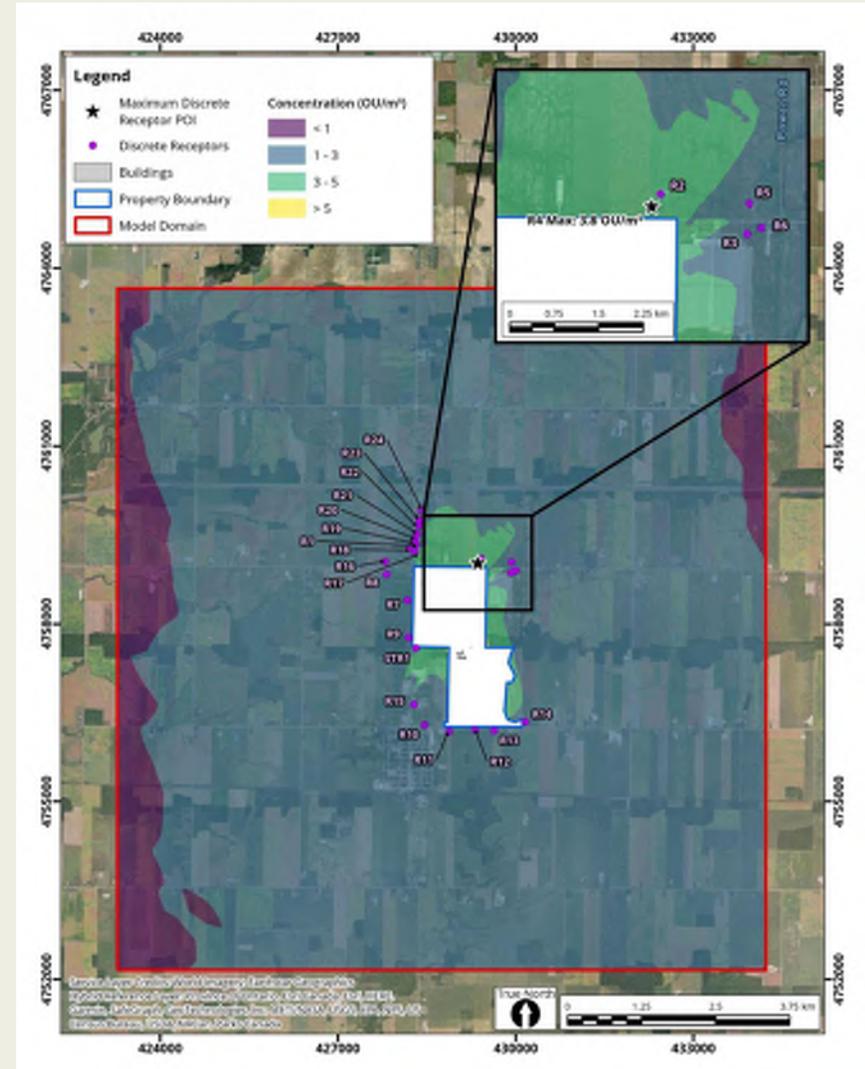
Effects from existing landfill operations are minor; emissions from the site are being managed effectively.



Site Plan showing Discrete Receptor Locations

Odour Existing Conditions

- Existing site is approved and monitored. Operations include measures to reduce the potential for impacts.
- 199 odour complaints received (2009-2023); 90% received since 2019.
- The greatest contributors of odour are landfill areas under interim and final cover and operations at the active face.
- An odour unit (OU) is the quantity of odourous substance per cubic metre.
- Typically, odour concentrations are defined as the following:
 - 1 OU/m³ – average associated with detection of odour
 - 3 to 5 OU/m³ – recognition of nuisance levels of the odour
- Odour impacts that are greater than 1 OU/m³ are considered acceptable at sensitive receptor locations if frequency of exceedance <0.5% of the time.
- Maximum odour concentrations at all sensitive receptors exceed 1 OU/m³ >0.5% of the time except at R11, R14, and STR1. Exceedance of 3 OU/m³ guideline occurs at only six receptors (R2, R3, R4, R5, R17, and STR1) <0.5% of the time. No exceedances of 5 OU/m³ occur.
- Based on the predicted odour concentrations, there is potential that landfill-related odours will be detectable and occasionally recognizable at discrete receptors from time to time which is supported by the historical complaints received.

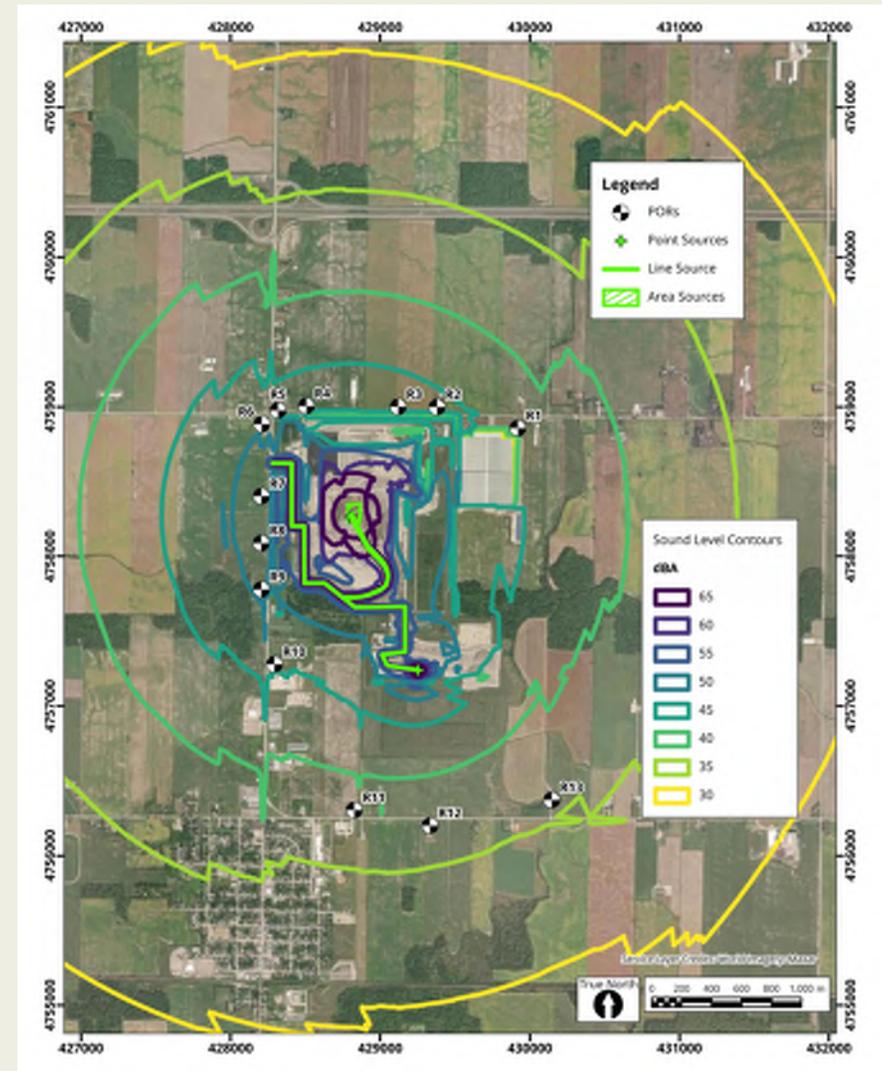


Predicted 10-minute Odour Concentrations (OU/m³)



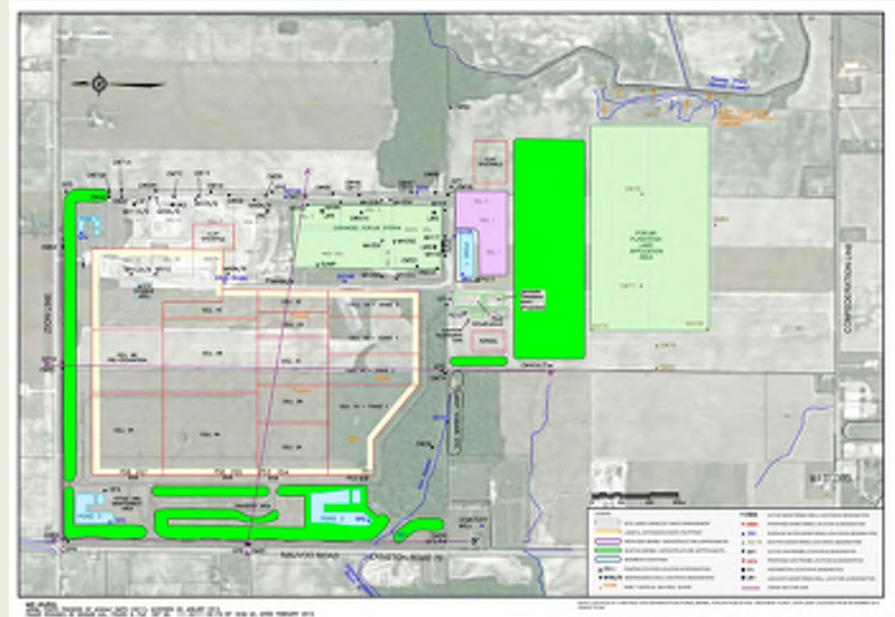
Noise Existing Conditions

- Daytime acoustic conditions in the off-site study area are generally dominated by road traffic, with nature sounds more pronounced in the evening and nighttime.
- Representative receptor locations were chosen to accurately capture existing facility sound levels in all directions.
- No noise complaints have been received since 2012.
- Modelled existing sound level at the receptor locations are:
 - From landfilling: 36 to 53 dBA
 - From ancillary facilities: 29 to 42 dBA
 - From emergency sources: <25 dBA
 - From pest control devices: 20 to 55 dBAI
- Existing sound levels are below the applicable sound level limits at all receptor locations.
- Hourly haul route sound levels at the closest residences are modelled to be up to a maximum of 66 dBA during daytime. There is no maximum limit for haul route noise.

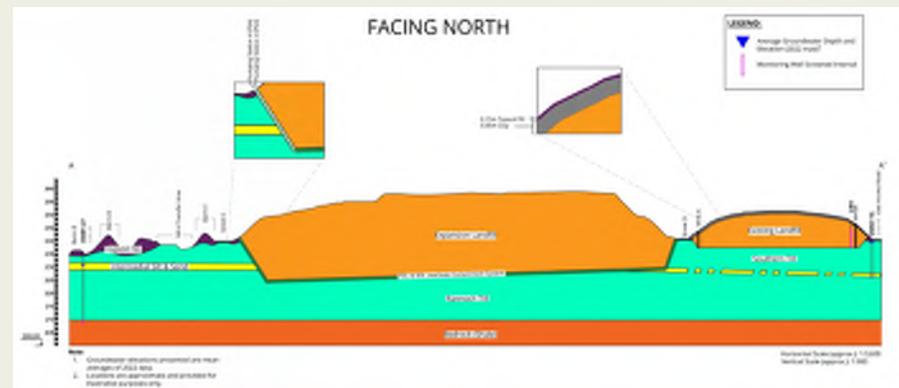


Geology & Hydrogeology Existing Conditions

- Active groundwater monitoring program in place.
- Leachate levels are monitored to manage leachate on-site through irrigation to trees (phytoremediation) and off-site through trucking to treatment plants. Leachate levels of the Expansion Site are managed to maintain the hydraulic trap of leachate.
- Leachate generation rates are currently below the predicted generation rates and projected to remain below historical predictions for the next 5 years.
- Leachate quality is monitored to evaluate chemical trends within waste cells at the TCEC and has remained consistent with historical monitoring findings.
- Groundwater quality assessment shows acceptable quality that is not negatively impacted by landfill leachate or operations.
- Groundwater quantity and off-site groundwater users are not impacted by TCEC operations.



Site Plan and Monitoring Locations

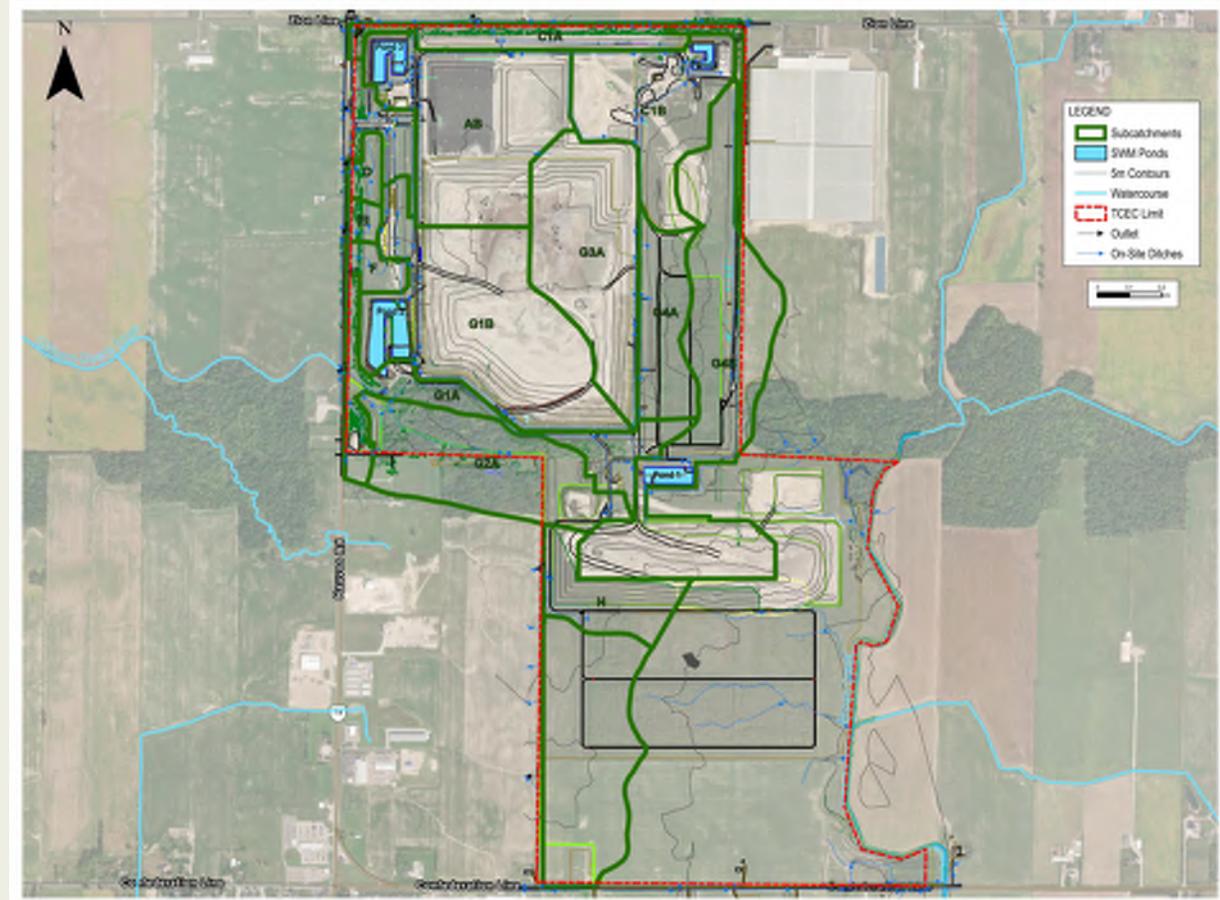


Geological Cross-Section A-A'



Surface Water Quantity Existing Conditions

- Seventeen catchment areas were identified and evaluated for surface water quantity.
- Drainage patterns within the site and off-site, and peak flows at each outlet location, are expected to remain unchanged for the landfill optimization.
- On-site surface water quantity focuses on the on-site ditches and the four stormwater ponds.
- Off-site surface water quantity focuses on the area within 1 km of the TCEC site, along with the Kersey Drain to the east, Van Kessel Drain to the west, and municipal drainage tile at catch basin SS1. The municipal drainage tile ultimately flows to the Gilliland-Geerts Drain, beneath Nauvoo Road (County Road 79).
- The 4 stormwater management ponds and 10 outlet locations are functioning well under existing conditions.



On-site Surface Water Management and Catchment Areas

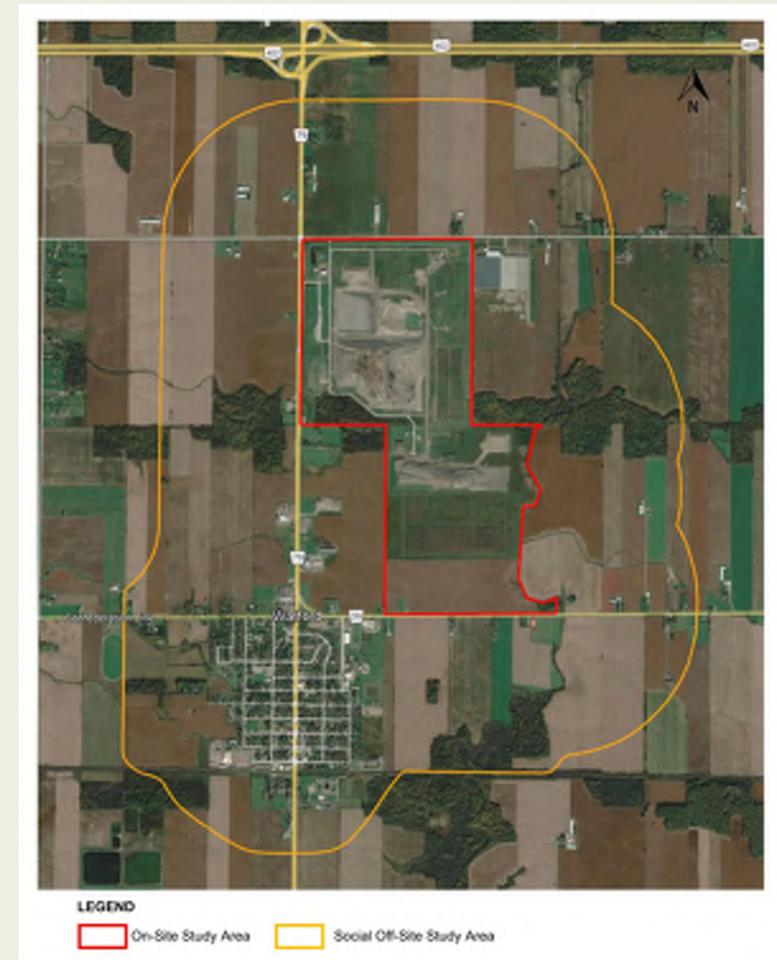
Approved Evaluation Criteria

Evaluation Criteria	Rationale	Indicators
Socio-Economic Environment		
Social Environment		
Effects on Local Community	Waste disposal facilities can potentially affect local residents and businesses in the vicinity of the site.	<ul style="list-style-type: none"> • Number of residents and residences (e.g., receptors). • Number and type of local businesses. • Nuisance effects (litter, dust, noise, odour, traffic). • Predicted changes to use and enjoyment of property. • Level of satisfaction with living/working in the community. • Confidence in TCEC operations.
Visual Impact of Facility	The contours of the waste disposal facility may affect the visual appeal of a landscape.	<ul style="list-style-type: none"> • Predicted changes in perceptions of landscapes and views.
Economic Environment		
Economic effects on local community	The continued operation of the landfill could have economic effects on and/or provide economic benefits to the local community.	<ul style="list-style-type: none"> • Employment at site (number, type, and duration). • Contributions to the host community. • Opportunities for the provision and procurement of products and/or services.
Human Health		
Human Health	Construction and operation activities at a waste disposal site can lead to increase to increased levels of particulates (dust) and related metals in the air.	<ul style="list-style-type: none"> • Predicted acute and chronic health-based concentration ratios arising from air concentrations of particulate matter (dust) and related metals at identified sensitive receptor locations within the Study Area. • Frequency of any exceedance of applicable standards, limits, or guidelines at identified receptors.
	Waste disposal site and associated operations can emit gaseous contaminants that can degrade air quality.	<ul style="list-style-type: none"> • Predicted acute and chronic health-based concentration ratios arising from air concentrations of gaseous contaminants at identified sensitive receptor locations within the Study Area. • Frequency of any exceedance of applicable standards, limits, or guidelines at identified receptors.

Socio-Economic Existing Conditions

Social Environment

- Watford has a population of approximately 1,563 (2021). Growth over the past 5 years has been minimal (1.8%).
- 648 residences are located within Watford and ~36 residences are located outside of Watford within the Social Off-site Study Area.
- Future residential lands identified to the west and southeast of Watford.
- Recreational resources: parks; walking paths/trails; and East Lambton Community Complex. Based on recent survey responses, the most used facilities are the East Lambton Community Complex, and the baseball diamonds and running track at Centennial Park.
- WM monitors air quality and noise. Of the 195 complaints received from 2019-2023, 92% were related to odour and 7% were related to litter. There was one dust complaint and no noise complaints.
- Responses to the recent Community Survey indicated that 84% of residents are satisfied or somewhat satisfied with the Township of Warwick as a place to live, citing the people, services, and excellent neighbours.
- Regarding their level of confidence in the current landfill operations at the TCEC, 30% of residents responded that they are confident or somewhat confident in current landfill operations and 37% are somewhat unconfident or unconfident.



Study Areas for the Social Environment

Socio-Economic Existing Conditions

Economic Environment

- 36% of the labour force in the Township of Warwick resides in Watford (2021).
- Top five employment sectors in the Township are: agriculture, forestry, fishing and hunting; construction; manufacturing; health care and social assistance; and retail trade.
- There are approximately 130 businesses in the Township of Warwick.
- Unemployment rate is high at 9.2% (2021).
- 67% of employed Township residents commute outside of the Township for work.
- A large industrial park is planned to the west of the TCEC site.
- The TCEC is not a significant employer in the Township due to the scale of its operations and its proximity to major urban centres. The TCEC provides stable employment for 25 staff.
- In 2018 through 2022, WM procured ~\$18.5M in goods and services from businesses in Watford. WM also procures goods and services from other businesses within the County of Lambton, Ontario, and other locations.
- WM provides landfill gas to the neighbouring Twin Creeks Greenhouse for heating purposes.
- Since 2009, WM has contributed over \$33M in host community fees to the Township in addition to municipal taxes. Host community contributions are a key component of the Township's annual municipal budget and are placed into general funds to keep taxes low and provide for community projects.

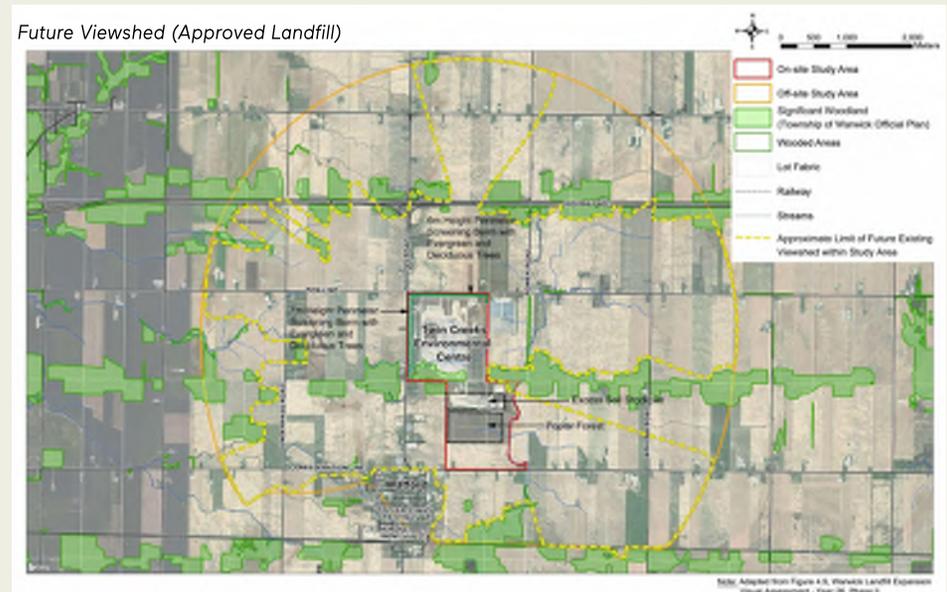
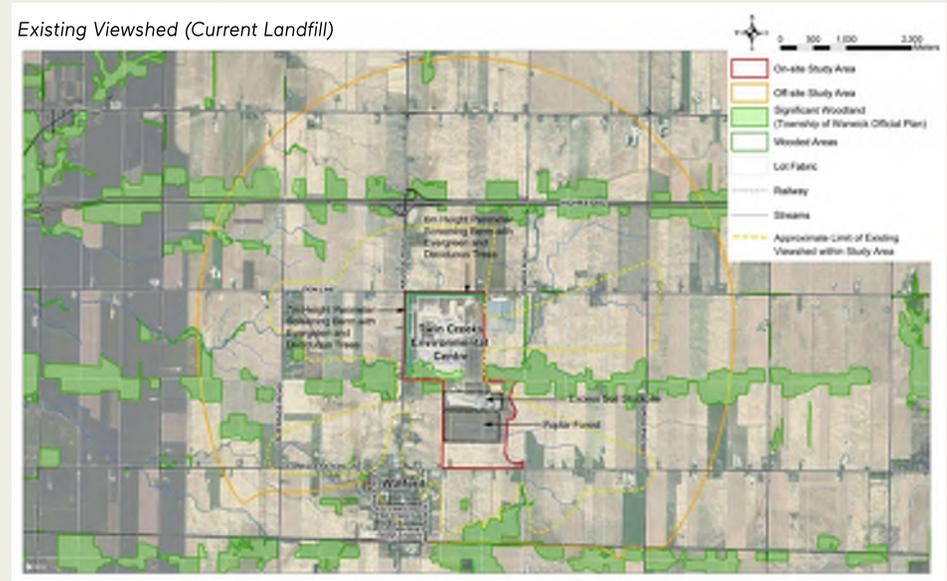


Warwick Industrial Park, Sarnia-Lambton Economic Partnership



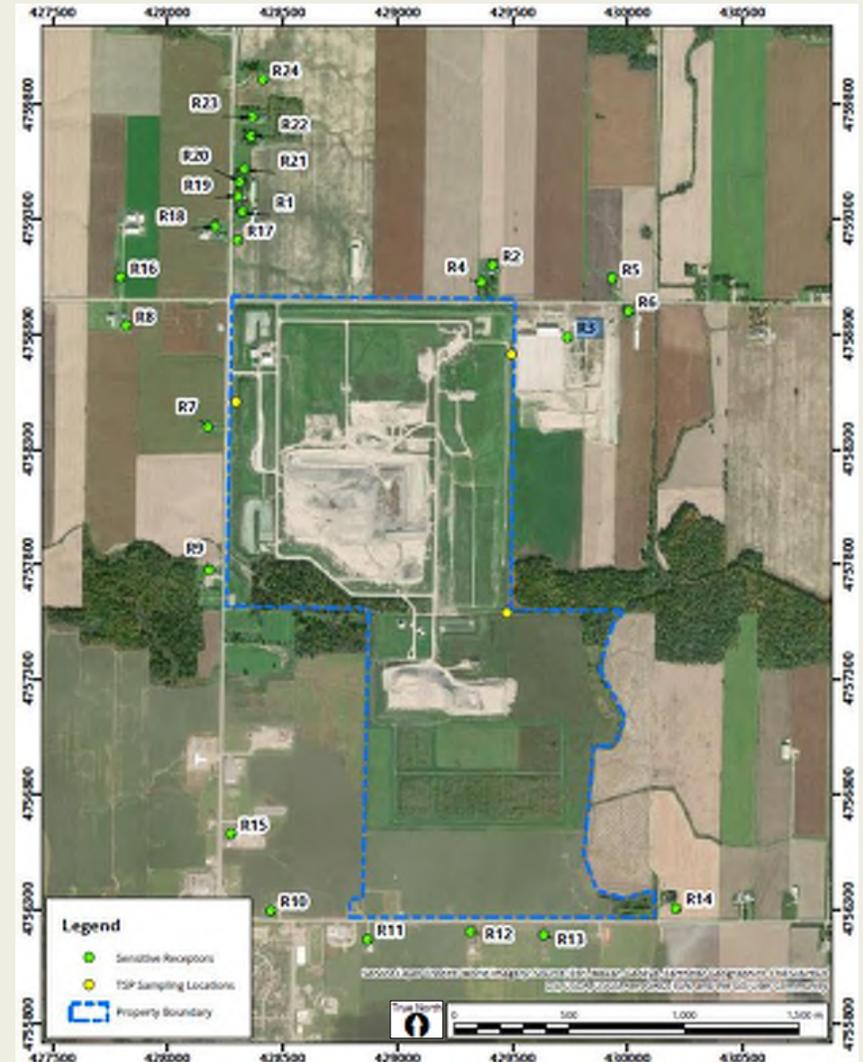
Visual Existing Conditions

- Visual landscape surrounding the TCEC is rural in character with minimal topographic relief.
- The Village of Watford is located to the south and southwest of the facility including residential, commercial, and institutional land uses
- Given the density and height of the buildings within the village, the TCEC is generally only visible from the north area of the Village of Watford, around Confederation Line.
- The Significant Woodlands limit view of the facility from Arkona Road and east of the TCEC, as well as from Underpass Road.
- The TCEC is visible from community amenities including the East Lambton Community Complex, YMCA, and parks south of the TCEC.
- The berms and plantings that were implemented as a component of the construction of the TCEC provide effective visual mitigation under the existing conditions.



Human Health Existing Conditions

- The 2005 Human Health Risk Assessment (HHRA) was reviewed and confirmed to still be valid.
- No measurable long-term adverse health impacts were predicted to result from landfill combustion gas emissions.
- No short-term adverse health effects were predicted to occur as a result of exposure to combustion gases, with the exception of the 24-hour hydrogen sulphide; however, this was based on a 21x change in the toxicological benchmark and the conservative modelling used in the 2005 HHRA.
- The likelihood of adverse health effects resulting from exposure to PM_{10} and $PM_{2.5}$ is predicted to be extremely low.
- Based on the review of results from the recent annual monitoring programs, the review of existing conditions for air quality, groundwater quality, and surface quality, and the review of assumptions and conclusions from the 2005 HHRA, no measurable long-term or short-term adverse health impacts were predicted to occur from exposure to landfill gas combustion emissions under existing conditions, with the exception of worst-case hydrogen sulphide as noted above.



Sensitive Receptors and TSP Sampling Locations

Approved Evaluation Criteria

Evaluation Criteria	Rationale	Indicators
Cultural Environment		
Cultural Heritage		
Cultural Heritage Resources	Activities related to construction and operation of the landfill may result in direct or indirect effects on identified built heritage resources and cultural heritage landscapes.	<ul style="list-style-type: none"> • Proximity of known or potential cultural heritage resources to the landfill (known/potential built heritage resources and cultural heritage landscapes will be assessed for potential direct or indirect effects). <ul style="list-style-type: none"> • Direct impacts may include: the destruction of any, or part of any, significant heritage attributes or features; and alteration that is not sympathetic, or is incompatible, with the historic fabric and appearance. • Indirect impacts may include: shadows created that alter the appearance of a heritage attribute or change the viability of a natural feature or plantings, such as a garden; and isolation of a heritage attribute from its surrounding environment, context or a significant relationship; direct or indirect obstruction of significant views or vistas within, from, or of built and natural features; a change in land use such as rezoning a battlefield from open space to residential use, allowing new development or site alteration to fill in the formerly open spaces; and land disturbances such as a change in grade that alters soils, and drainage patterns that adversely affect an archaeological resource.
Archaeology		
Archaeological Resources	Archaeological resources are non-renewable cultural resources that can be destroyed by the construction and operation of a waste disposal facility. Activities related to construction and operation of the landfill may cause negative effects on archaeological sites or areas with archaeological potential.	<ul style="list-style-type: none"> • Archaeological resources on-site and predicted impacts on them. • Cemetery properties within approximately 10 metres of the proposed impacts.

Cultural Heritage Resources Existing Conditions

- The area is traditional territory of Walpole Island First Nation, Chippewas of the Thames First Nation, Aamjiwnaang First Nation, Chippewas of Kettle and Stony Point First Nation, Caldwell First Nation, the Oneida Nation of the Thames.
- Cultural Heritage Resources Assessment completed to identify known and potential built heritage resources (BHR) and cultural heritage landscapes (CHL) that may be affected by the undertaking and/or in the Study Area.
- Study Area has a rural history dating back to the early-nineteenth century.
- 3 potential BHRs and 16 potential CHLs identified within the overall Project Study Area:
 - On-Site Study Area: 1 CHL (farmscape)
 - Off-Site Study Area: 18 BHRs and CHLs identified including
 - 9 farmscapes
 - 3 cemeteries
 - 2 farmhouses
 - 1 church
 - 1 historical settlement centre
 - 1 roadscape
 - 1 race track



BHR 1 – Farmhouse at 5876 Nauvoo Road



BHR 3 – Church at 5378 Nauvoo Road



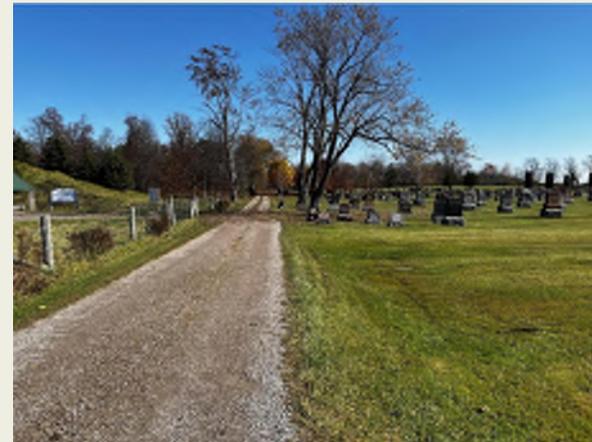
CHL 18 – Watford Pioneer Cemetery Cairn



CHL 19 – Watford Historical Commercial Centre

Archaeological Resources Existing Conditions

- A Stage 1 Archaeological Assessment was completed to identify existing archaeological resources that may be affected by the undertaking and / or in the Study Area.
- 37 previously registered archeological sites are located within 1 km of the Study Area.
- Site AfHI-14 in the southeast corner of the Study Area is the only site relevant to the Project. Pre-contact Indigenous artifacts were recovered from this site and is protected by a minimum 10 m buffer and surrounding conservation area.
- The northern portion of Watford Cemetery is immediately adjacent to the study area and has low potential for unmarked burials outside its boundary.
- The remainder of the Study Area, beyond the protected area of Site AfHI-14, does not retain archeological potential and does not require further archaeological assessment.
- The entirety of the Study Area was previously assessed as part of past landfill expansion projects. Four studies have largely addressed all impacts to archaeological resources in the Study Area.
- Between 1999 and 2008, 11 archaeological sites were identified within the Study Area, including AfHI-14, which was protected within a tree plantation following Stage 3 archaeological assessment in conjunction with Walpole Island First Nation. The remaining 10 sites in the north half of the On-Site Study Area are cleared of archaeological concern.



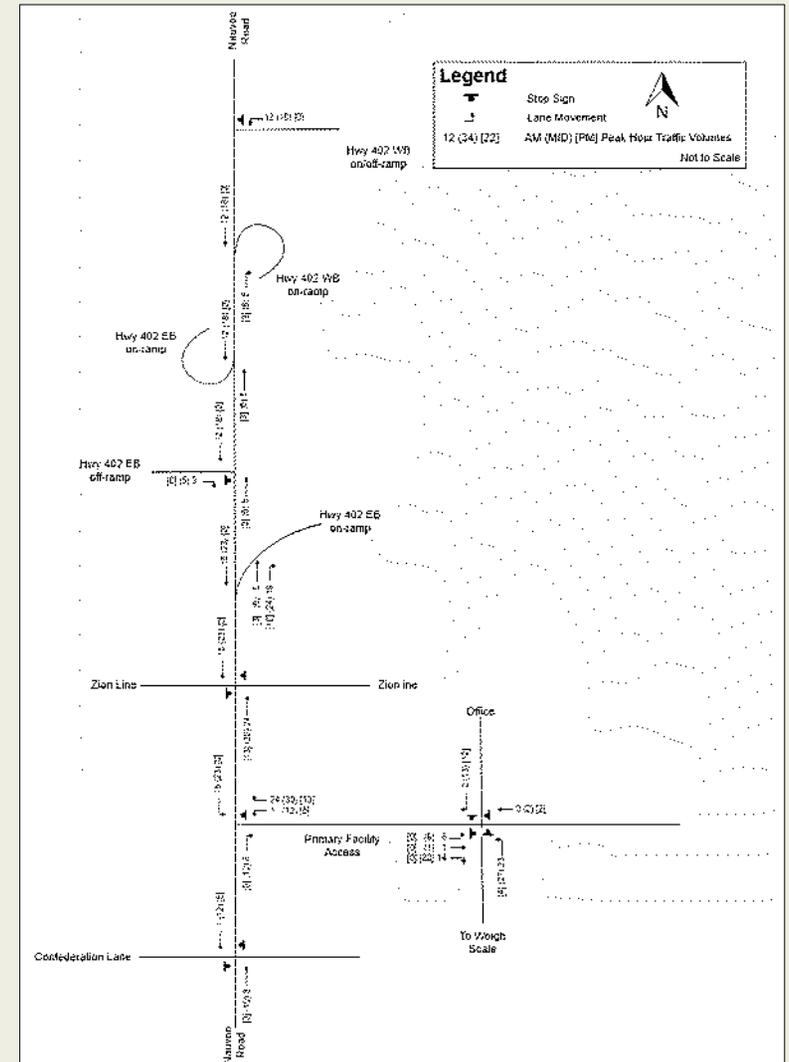
Watford Cemetery

Approved Evaluation Criteria

Evaluation Criteria	Rationale	Indicators
Built Environment		
Transportation		
Traffic Operations	Truck traffic associated with continued operations of the landfill may adversely affect residents, businesses, institutions and movement of farm vehicles in the site vicinity.	<ul style="list-style-type: none"> • Change in peak hour and daily truck traffic volume and Average Annual Daily Traffic (AADT) along the study area road segments. • Intersection performance – capacity, delay, queues (based on HCM 2000 and generated by Synchro Traffic Signal Coordination Software Version 11 9) – for the study area intersections. • Road safety. • Collisions per million vehicles at all study area intersections (severity, involving pedestrians, cyclists, autos, trucks, school buses, and agricultural vehicles). • Collisions per million vehicle-km along all study area road segments (severity, involving pedestrians, cyclists, autos, trucks, school buses, and agricultural vehicles). • Collisions by environmental conditions for segments and intersections. • Sight distance at the primary site entrance.
Land Use		
Current and Future Land Uses	The continued operation of the landfill may not be fully compatible with certain current and/or planned future land uses in the Off-Site Study Area. Waste disposal facilities can potentially have a negative impact on sensitive land uses in the vicinity of the site.	<ul style="list-style-type: none"> • Current land use. • Planned land use. • Type(s) and proximity of offsite recreational resources within 1 km of a landfill footprint potentially affected. • Type(s) and proximity of offsite sensitive land uses as defined by the Provincial Policy Statement and the MECP D-1 Guidelines (e.g., dwellings, churches, parks) within 1 km of a landfill footprint potentially affected. • Type(s) and proximity of agricultural land use/operations (e.g., organic, cash crop, livestock).

Transportation Existing Conditions

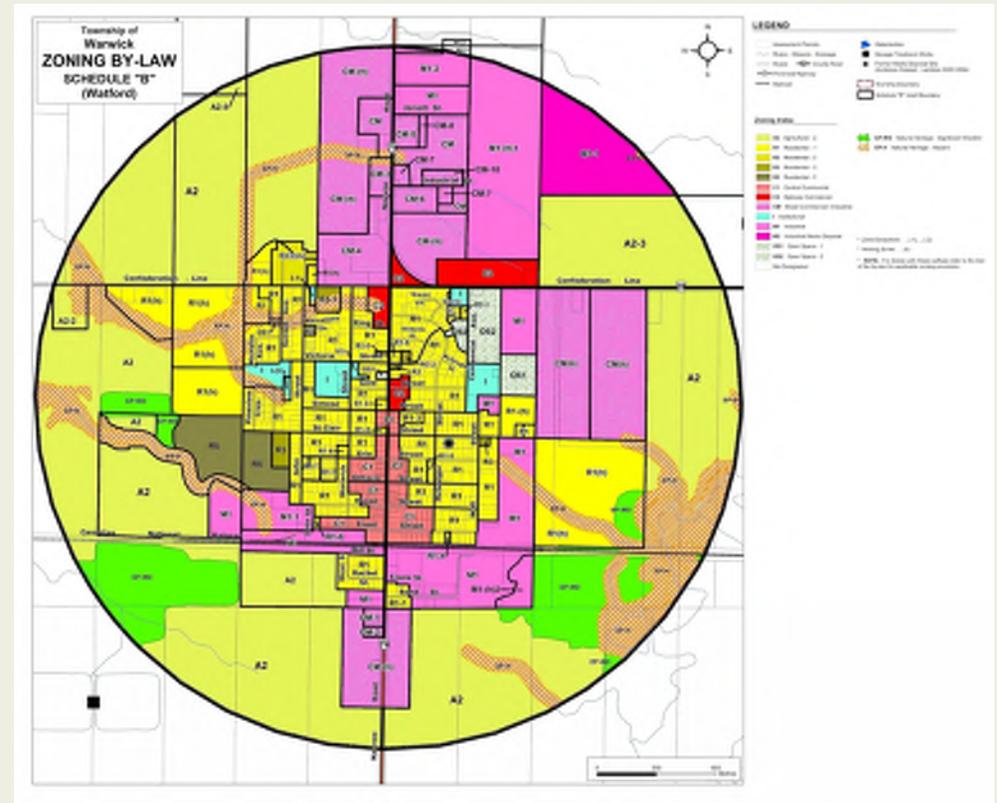
- Site traffic is primarily to/from the north to Highway 402.
 - Weekday (AM peak hour): 47 inbound and 77 outbound trips
 - Weekday (midday peak hour): 44 inbound and 52 outbound trips
 - Weekday (PM peak hour): 26 inbound trips and 30 outbound trips
- Intersections in the study area are operating well.
- In terms of driveway safety, the TCEC site entrance on Nauvoo Road has sufficient sightlines, storage, and taper (designed and operating well).
- No safety signals were identified as part of collision history analysis and historical collision rates for the Study Area.
- Future conditions will include general background traffic growth as well as traffic associated with future developments.



Existing Site Traffic Volumes (November 2022)

Land Use Existing Conditions

- The existing landfill is the predominant land use within the TCEC site, comprising 101.8 ha in the northern portion of the site.
- WM manages on-site private recreational features including the Watford Dog Park, Nauvoo Park, and the Twin Creeks Nature Trail.
- Most lands within the Off-site Study Area are designated, zoned, and utilized for agricultural operations, with scattered residential dwellings associated with farming operations.
- There are no aggregate resources located within the study areas.
- 2 cemeteries located directly west of the TCEC site.
- Potentially sensitive off-site land uses are primarily concentrated southwest of the TCEC in the Watford Settlement Area including residences, 4 public parks, 1 community centre, 2 elementary schools, 2 daycares, 4 places of worship, 2 healthcare facilities, and 1 long-term care facility.
- The Provincial, County, and local planning framework directs future development within the Watford Settlement Area. Industrial and Mixed Commercial/Industrial uses are separated from the more sensitive land use designations.
- Amendments to the County of Lambton Official Plan and Township of Warwick Official Plan will be required for the expansion of the TCEC landfill.



Excerpt from the Township of Warwick Zoning By-law Schedule 'B'



Consultation and Engagement Opportunities

Public consultation and engagement to be conducted throughout the EA process will involve the local community, applicable agencies, Indigenous communities, and other interested and/or affected stakeholders.

Consultation and engagement will include:

- Notifications by direct mail, mail drop, email, newspapers (digital and/or print), and via the project website at key milestones during the EA process
- Public Information Sessions
 1. Project introduction, EA process overview, project milestones, consultation and engagement opportunities (held on April 19, 2023)
 2. Description of existing conditions, Alternative Methods, Evaluation Criteria (this session)
 3. Results of effects assessment and comparative evaluation, identification of Preferred Alternative
 4. Draft EA Study Report
- Project website
<https://www.wm.com/ca/en/twin-creeks-landfill/landfill-optimization-project>
- Meetings/Tours
- Draft EA Study Report review
- Final EA Study Report

Upcoming Key Milestones

Effects Assessment and Identification of the Preferred Alternative

Draft EA Study Report review

Submission of the Final EA Study Report to the MECP

How Can You Participate?



Join our project mailing list



Attend Public Information Sessions



Provide comments during or following events



Review documents and submit comments



Ask questions and become informed



Email questions to WM and receive a response within 48 hours



Visit the project website for updates

<https://www.wm.com/ca/en/twin-creeks-landfill/landfill-optimization-project>



Next Steps

- Information received through this Public Information Session and other comments received will be considered in the EA.
- Notification will be provided for Public Information Session 3 by direct mail, mail drop, email, newspapers (digital and/or print), and via the project website.
- Public Information Session 3 will focus on the effects assessment and comparative evaluation of Alternative Methods, and the identification of the Preferred Alternative.

If you would like to be added to the project mailing list or have project-related questions, please contact:

Wayne Jenken
Landfill Engineering Manager, Canada Area
WM Canada
5768 Nauvoo Road
Watford, ON N0M 2S0
Phone: 519.849.5810
Email: wjenken@wm.com

Larry Fedec, P.Eng., M.B.A.
Solid Waste Program Lead, Canada
HDR Corporation
100 York Boulevard, Suite 300
Richmond Hill, ON L4B 1J8
Phone: 289.695.4696
Email: larry.fedec@hdrinc.com

Thank you for your attendance and comments on the Project





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Public Comment Form



Public Information Session 2
November 29th and December 5th, 2023, 4-8 PM

Comment Form

Name: _____

Address: _____

Phone #: _____

Email: _____

1. My **interest** in the project is: (please check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> residential property | <input type="checkbox"/> air quality (dust, noise, odour) |
| <input type="checkbox"/> business | <input type="checkbox"/> ecology (plants, wildlife) |
| <input type="checkbox"/> member of interest group | <input type="checkbox"/> groundwater / surface water |
| <input type="checkbox"/> agency representation | <input type="checkbox"/> land use / visual |
| <input type="checkbox"/> other: | <input type="checkbox"/> transportation |

2. Please provide any **general comments** about the information presented at this Public Information Session.

3. After reviewing the information presented, do you have any comments or questions regarding the **current operations at the Twin Creeks Environmental Centre or the Project?**

- Yes No



4. Do you have any specific comments or questions regarding **the screening of Alternative Methods for the Project** and the **preference for Vertical Alternative Methods** to be further assessed in the **Environmental Assessment**?

Yes No

5. Do you have any specific comments, questions, or recommendations regarding the **Summary of Existing Conditions** as presented?

Yes No

6. Do you have any specific comments or questions about **Consultation and Engagement Opportunities** or **Next Steps**?

Yes No

Thank you for taking the time to provide us with your comments.
Please remember to put your comments in the Comment Box before you leave.

If you do not have time to submit your comment sheet today, please scan and email or mail your comments by **December 22, 2023** to:

Wayne Jenken
Landfill Engineering Manager, Canada Area
WM Canada
5768 Nauvoo Road
Watford, ON N0M 2S0
Phone: 519.849.5810
Email: wjenken@wm.com

Larry Fedec, P.Eng., M.B.A.
Solid Waste Program Lead, Canada
HDR Corporation
100 York Boulevard, Suite 300
Richmond Hill, ON L4B 1J8
Phone: 289.695.4696
Email: larry.fedec@hdrinc.com