

Welcome to the 14th edition of the *Community Exchange* for the Walker Environmental Southwestern Landfill Proposal. You are receiving this *Exchange* because you expressed interest in our Proposal.

The Southwestern Landfill Proposal seeks to develop a modern non-hazardous solid waste landfill at a quarry site in the Township of Zorra in Oxford County. For more details about the proposal, please visit www.walkerea.com.

Terms of Reference Approved

On March 18, the Southwestern Landfill Proposal Terms of Reference (ToR) was approved along with several amendments by the Ministry of the Environment and Climate Change. The ToR was developed in consultation with stakeholders and submitted to the Ministry in 2014.

The approval of the ToR is one step in the overall Environmental Assessment (EA) process and does not signal approval of the project. It will take several more years to complete the next phase of the Environmental Assessment. The approval of the ToR confirms that there is a rationale for the project and that a robust framework is in place to guide us through the next phase of the EA process.

What Comes Next - Environmental Assessment Phase

The *Environmental Assessment Act* has two key phases; the Terms of Reference and the Environmental Assessment (EA). With the Terms of Reference now approved, we move onto the EA Phase. The EA Phase is where the technical and scientific studies occur. These studies will allow us to answer the many questions that have been raised and determine how any potential impacts can be mitigated.

The EA phase has four main stages:

1. Evaluation of Alternative Methods & Identification of Preferred Alternative

This step involves evaluating the different alternatives or options associated with key components of the facility. The key components include:

- Landfill footprint (where it could be located on the property)
- Landfill design (landfill configurations and liner designs)
- Leachate treatment methods
- Landfill gas management methods
- Haul routes

The options associated with each component will be evaluated, while consulting interested parties, and a “Preferred Alternative” will be developed. Once identified, the Preferred Alternative will outline the characteristics of the facility.

What are “Alternative Methods”?

“Alternative Methods” are different ways of carrying out the proposed project. For example, various potential haul routes. Through consultation, the “Alternative Methods” are narrowed down to one “Preferred Alternative”, which will be studied.

2. Finalize Technical Work Plans

Once the Preferred Alternative has been identified and facility characteristics developed, the technical work plans can be finalized. Interested parties will participate and be consulted during this step. The work plans will set out how technical and scientific studies will be conducted.

3. Technical & Scientific Studies/Assessments

The technical and scientific studies will be carried out by experts in each of the disciplines. This step will take over 12 months to complete because some studies must be completed during all four seasons. Once the studies are complete, interested parties will be consulted on the results and recommendations of the studies.

4. Draft and Final EA Documents

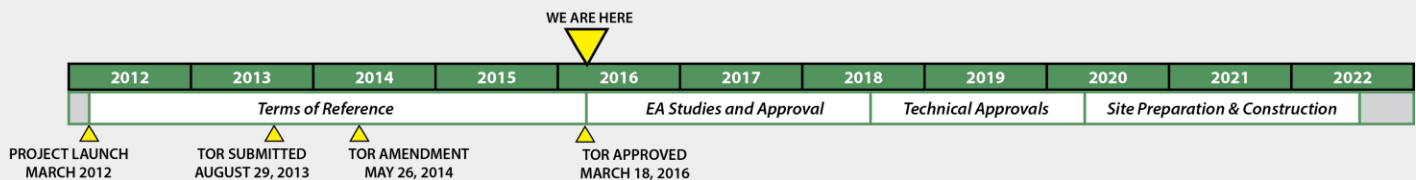
Upon the completion of the studies, a draft EA report will be prepared. Interested parties will have the opportunity to review and provide comments on the draft EA report. The draft report will be finalized and the final EA report will be prepared and submitted to the Ministry of Environment and Climate Change for review.

What to Expect in the Coming Weeks

The first official step in the EA phase is the Notice of Commencement, which signals the start of the EA phase. You can expect to see this notice in the newspaper and on our website in a few weeks. After that, we'll be using the Community Exchange, our website, newspaper advertisements, and other mediums to inform stakeholders about opportunities to participate and provide input.

We received feedback that providing a clear agenda in advance of consultation events will allow those interested in participating to prepare for the specific topics. As we move forward in this next phase of the EA, there will be clear information about opportunities to get involved.

As always, we're available by phone or by email, as well as at our office in Ingersoll. We appreciate the opportunity to answer questions and listen to suggestions.



We appreciate your continued interest in the Southwestern Landfill Proposal. If you would like to learn more about the Proposal or EA Process, please visit our website, www.walkerea.com, call our toll free number, 1-855-392-5537 or meet with us at our Ingersoll office located at 160 Carnegie Street, Ingersoll.

For more information on Ontario's *Environmental Assessment Act*, please visit: www.ene.gov.on.ca/environment

For additional information about Walker Industries, please visit the following resources:

- www.walkerind.com
- www.earth1st.ca
- www.youtube.com/user/Walkerind



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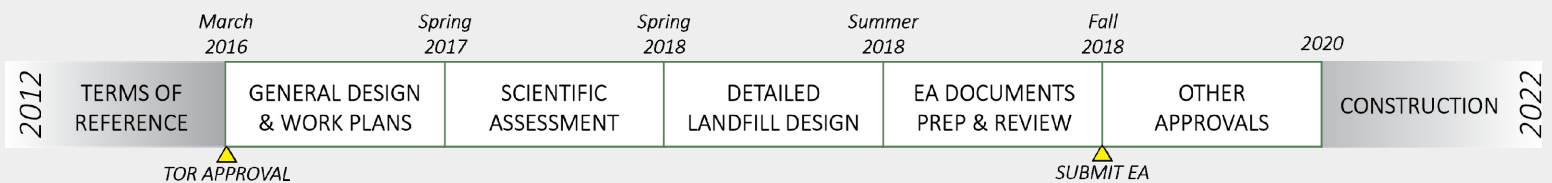
Community Engagement Update

Since the approval of the Terms of Reference in March, we have been out talking to people to discuss the project and find out how they would like to be engaged. Specifically, there have been:

- Four Community Liaison Committee (CLC) meetings
- Meetings with community organizations and municipal government representatives
- Meetings with First Nations

What's the timeline?

The Environmental Assessment process is underway. At each stage, there will be opportunities to provide your input. We are estimating the final EA document will be submitted to the Ontario government in 2018.



Options we will be talking about – Summer and Fall 2016

The next step in the EA is to discuss some key aspects of the landfill that still need to be decided before technical and scientific studies can be started. You know your surroundings best, and we'd like to hear your thoughts and concerns about different options for the landfill:

1	Landfill Footprint	The specific location on Carmeuse Lime property.
2	Landfill Design	How the landfill will sit in the quarry, including what liner design will be used to protect the environment.
3	Leachate Treatment	How leachate (water that touches waste) will be managed and treated to remove contaminants.
4	Landfill Gas	How landfill gas will be collected and managed, including using it as a renewable energy source.
5	Haul Route/Site Entrance	Which roads will be used and where the site entrance will be.

More information about each of these topics and public events will be provided in upcoming newsletters and on our website – www.walkerea.com.

We Want to Hear from You

There are lots of ways to get involved, which one works best for you?

Community Liaison Committee

Timing: Usually 4th Wednesday of month, 6-9 pm

A group including community members, municipal representatives, the Conservation Authority, and Walker team members.

Observers are welcome, just give us a call.

Public Events

Timing: At key milestones

Events where anyone who is interested in the project can get information and provide input.

Information will be available ahead of time in our newsletter and on our website.

Communication

Timing: Regular newsletters & other information at key milestones

Community Exchange, website updates, official documents, notices in the newspaper.

Sign-up for updates to your inbox or mailbox.

Community Relations

Timing: At key milestones and when requested

Meeting individuals and groups (ie. municipal councils, organizations, First Nations).

Give us a call to set up a time for your organization to voice their concerns.

Did You Know...?

- At our South Landfill in Niagara, before waste gets to our site it goes through a stringent approval process.
- Waste that arrives without pre-approval is turned away.
- When the waste arrives at the landfill, paperwork is reviewed and it is inspected at the scale house.
- At the tipping face, our employees inspect the waste as it comes out of the truck.
- We are required to ensure that waste entering our landfill is non-hazardous.



Lesley reviewing chemical analysis of waste to make sure it is non-hazardous.



Laura inspecting waste in the truck at the scale house.

Subscribe on our website to receive email updates



You can now select what categories you would like to receive alerts for, regarding the Southwestern Landfill Environmental Assessment.

www.walkerea.com

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Public Event:

Update on the Southwestern Landfill EA

Thursday, September 1, 2016 - 3 pm to 8 pm
Colombo Club - 434719 West Hill Line, Beachville, ON

- Discuss questions & concerns
- Update on project & timeline
- How modern landfills operate
- Ways you can provide input
- Next steps in the process
- Sign up for a bus tour to Niagara

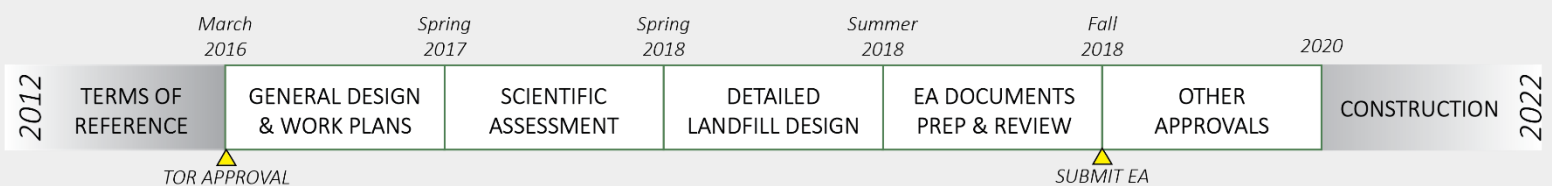
Community Engagement Update

Over the past month we have been out talking to people and listening to community input. Specifically, we have:

- Hosted our monthly Community Liaison Committee (CLC) meeting
- Carried out door-knocking with the residents closest to the proposed site
- Met with several First Nations
- Met with community organizations

What is the project timeline?

The Environmental Assessment process is underway. At each stage, there will be opportunities to provide your input. We are estimating the final EA document will be submitted in 2018.



Did You Know?

This month's topic: Protecting Groundwater

Groundwater is an essential resource for people and the environment. Modern landfills must be fully protective of the environment, which includes groundwater. That's why today's landfills are built with multiple layers of protection and monitoring.

What is groundwater?

Groundwater is any water that is below the surface, moving through rocks and soil. You may be familiar with the term "water table" which is the depth where groundwater starts below the surface.

What is leachate?

Leachate is water that has come into contact with waste. Leachate is created when rain water or snow melt filters through the landfill.

Landfill Liner

- Landfills are built with a liner that acts as a barrier between the waste and the natural environment.
- The liner also collects water that has come into contact with the waste (called leachate), which is then pumped out and treated.
- For the Southwestern Landfill, Walker is proposing a "generic double composite liner", which was designed by the Ministry of the Environment and Climate Change. It has a series of clay and plastic (called geomembrane) liners. An example of this liner, which is used at our South Landfill in Niagara, is provided on the next page.
- Leachate is constantly collected and removed from the landfill. It is then treated in a manner similar to how municipal wastewater is treated. Leachate collection and treatment continues after the landfill is closed.

Monitoring

- Groundwater quality is monitored multiple times per year around landfills using wells.
- Each year, monitoring data is sent to the Ministry of the Environment and Climate Change in an annual report.

Financial Assurance

- Companies that own landfills are required to set aside money and provide it to the Ministry of the Environment and Climate Change before a landfill opens. The money can be used to address impacts, if they occur, and the company cannot pay for them.
- The amount of money for financial assurance is set by the Ministry of the Environment and Climate Change.



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Modern Landfill Liner

Have you ever wondered how modern landfills protect the environment?

Here is an example of the double composite engineered landfill liner used at Walker Environmental's South Landfill in Niagara Falls.

Geotextile 1

Geotextiles are permeable fabrics made from polypropylene or polyester and provide separation, filtration, reinforcement, protection and / or drainage.

Clear Stone 2

Clear stone is uniformly sized gravel that has been cleaned to remove fine particles. Clear stone is used with the perforated leachate collection pipes to allow leachate* to be removed from the landfill so it can be treated.

Leachate Collection Pipe 3

Leachate collection pipes are located in the clear stone layers of the landfill liner. These pipes allow leachate to be removed from the landfill so it can be treated.

Geomembrane 4

The geomembrane is made from high density polyethylene and is used with engineered clay soils to provide a physical barrier between waste in the landfill and the natural environment.

Engineered Clay 5

Engineered clay is natural clay soil that is engineered to ensure uniformity and is compacted to decrease permeability to provide a physical barrier between waste in the landfill and the natural environment.

Sand 6

The sand layer is coarse sand that provides additional protection for underlying geomembrane and clay liners.

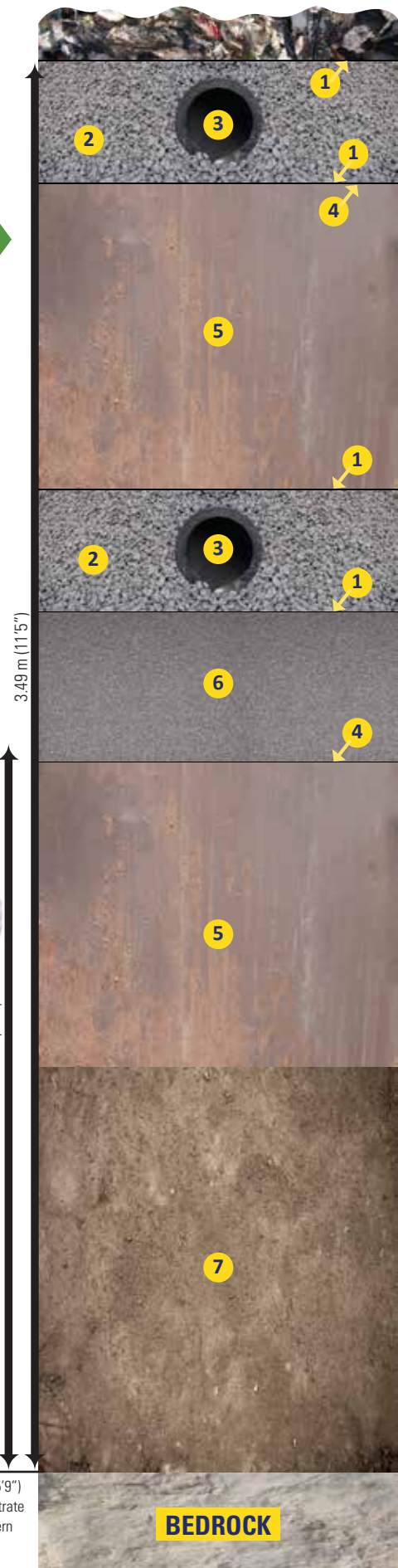
Attenuation Layer 7

The attenuation layer is a low permeability soil that provides further protection to the natural environment.

* Leachate is a term used to describe water that has come in contact with waste in the landfill.



An average person with the height of 1.75 m (5'9") standing next to the landfill liner helps demonstrate the thickness of the liner that is used in modern landfills such as Walker Environmental's South Landfill in Niagara Falls.



Southwestern Landfill Proposal

Walker Environmental is proposing a landfill in the Township of Zorra. If approved, it would accept only solid non-hazardous waste that is created in Ontario. The landfill proposal is undergoing a Provincial process called an Environmental Assessment (EA). An EA is a provincial planning and decision-making process so that potential environmental effects are considered before a project is allowed to begin. Once complete, the Ontario Minister of the Environment and Climate Change will decide if the landfill is approved.

Upcoming Public Workshop: Five Landfill Components

Thursday, October 13, 2016

Colombo Club - 434719 West Hill Line, Beachville, ON

To register for the Public Workshop:

- Visit SWLFPublicWorkshop.Eventbrite.ca
 - Call 1-855-392-5537 or email info@walkerea.com,
 - Fill out the enclosed RSVP card and mail it back using the prepaid envelope provided, or
 - Register at the door.
- * Register in advance to receive materials before the workshop

We will discuss the following topics at each session:

1. Landfill Footprint
2. Landfill Design
3. Haul Route & Site Entrance
4. Leachate Treatment
5. Landfill Gas Management

Session 1
Presentation
Starts at 3 pm

Session 2
Presentation
Starts at 6 pm

* Both sessions will have the same agenda.

Community Engagement Update

Over the past month, we have been out talking to people and listening to input. Specifically, we have:

- Hosted a public event on September 1, 2016
- Hosted our monthly Community Liaison Committee (CLC) meeting
- Met with representatives from First Nations
- Presented at a Township of Zorra council meeting



What's the Timeline?

The Environmental Assessment process is underway. At each stage there will be opportunities to provide your input. We are estimating the final EA document will be submitted to the Ontario government in 2018.



Landfill Topics - Alternative Methods Public Workshop

At our October 13, 2016 Public Workshop we will be discussing different options for the five key landfill components. We are looking for input from the community on options being considered for each component listed below.



Landfill Footprint

- The entire Carmeuse Lime property has to be considered for where the landfill could be located.
- We are looking for input on different locations considered and the rationale used to select potential footprints.



Landfill Design

- The liner acts as a barrier to prevent water that comes in contact with the waste (leachate) from touching the surrounding rock and groundwater.
- We are looking for input on the different liner designs being considered, as well as different landfill configurations (ie. how deep, how high, how wide).



Haul Route & Site Entrance

- Having a designated haul route is very important for landfill operations and for the local community.
- We are looking for input on possible routes to the proposed site, including highway exits and a specific entrance to the site.



Leachate Treatment Management

- Leachate is any water (ie. rain/snow) that comes into contact with the waste within a landfill. It must be contained, collected and treated.
- We are looking for input on the different options being considered for how leachate can be managed.



Landfill Gas Management

- Landfill gas is created when organic waste breaks down within a landfill. It can be managed to mitigate odour and greenhouse gas emissions. Landfill gas is also a significant renewable energy resource.
- We are looking for input on different methods for managing landfill gas and utilizing it to create renewable energy.

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Community Engagement Update

On October 13, 2016, Walker held a Public Workshop on different options (Alternative Methods) for five key landfill components. The workshop was an opportunity for community members to provide input on the various aspects of the proposed landfill.

The workshop enabled participants to have in-depth discussions with other community members and Walker representatives, which was a benefit of the new workshop-format. However, some participants found the sessions too long and it was sometimes difficult to hear each other, so we are working to address those issues.

Walker would like to thank everyone who attended the event and provided their input, which included the importance of protecting the groundwater, interest in the depth of the landfill below ground, and the potential for impacts related to the height of the landfill like odour, dust and noise. As we finalize the draft design of the landfill, these inputs will be incorporated.

We hope you will join us at our next workshop:

Upcoming Workshop: Preferred Alternatives

Wednesday, November 16, 2016

Colombo Club - 434719 West Hill Line, Beachville, ON

We will be discussing the chosen options
(Preferred Alternatives) for 5 landfill components:

1. Landfill Footprint
2. Landfill Design
3. Haul Route
4. Leachate Treatment
5. Landfill Gas

Session 1: Starts at 3:30 pm

Session 2: Starts at 6:30 pm

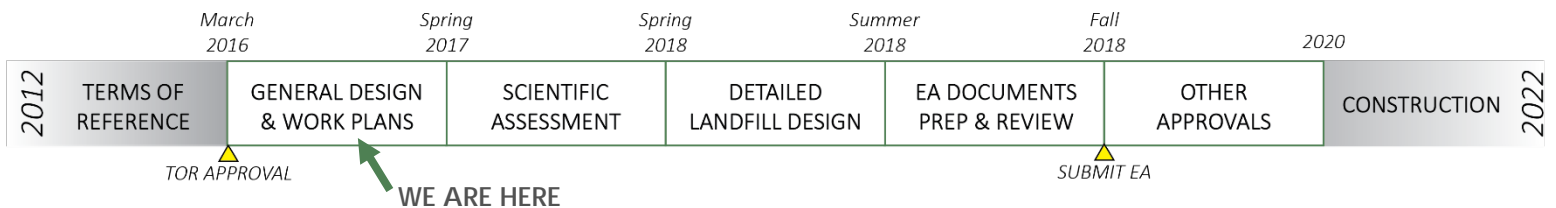
*Each session will be 1.5 hour and have the same agenda.

Please Register to receive workshop materials in advance:

- Online at SWLFPublicWorkshop.Eventbrite.ca, or
- Call 1-855-392-5537 or email info@walkerea.com

What's the overall EA timeline?

The Environmental Assessment process is underway. At each stage, there will be opportunities to provide your input. We are estimating the final EA document will be submitted to the Ontario government in 2018.



Designated Haul Route: One of the Public Workshop Topics

There has been significant interest in the haul route for the proposed landfill, so we wanted to provide some additional information before the November 16 Public Workshop.

- All trucks traveling between a major Provincial route (Highway 401) and the landfill must follow a designated haul route.
- During the EA, the designated haul route is studied by technical experts to determine the potential impacts (increased traffic, dust, noise, safety, etc.) and how those potential impacts can be prevented or mitigated.

Benefits of a designated Haul Route

- Good traffic flow to and from the landfill
- Trucks do not travel through densely populated or high-traffic areas, like a downtown core
- No additional wear and tear on roads not meant for heavy truck traffic



Haul Route Enforcement in Niagara

- Letters are sent to hauling companies in the first language of drivers to ensure that drivers are aware of the haul route requirements.
- A Walker-employed traffic enforcement person monitors traffic at key areas, including where trucks go and their speed. Drivers are provided with warnings if there are issues, and specific drivers can be prohibited from hauling to the landfill if they have received too many warnings.
- If residents notice any issues, they can call our complaint response line. Calls are returned as soon as possible and within 24 hours.

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Community Engagement Summary

Purpose of Events: The events and other consultation activities provide an opportunity for interested people to:

- Receive an update on the status of the project
- Ask questions about how landfills are planned, built, operated, and closed
- Provide input and voice concerns on various options for five key landfill components (see below)

Events We Held: Since the approval of the Terms of Reference in March 2016, Walker has carried out consultation and engagement activities including meetings and presentations in addition to events:

- Three Public Events (1 open house & 2 workshops)
- One Workshop with First Nations Representatives
- Nine Community Liaison Committee (CLC) Meetings

Thank you to everyone who provided input & concerns

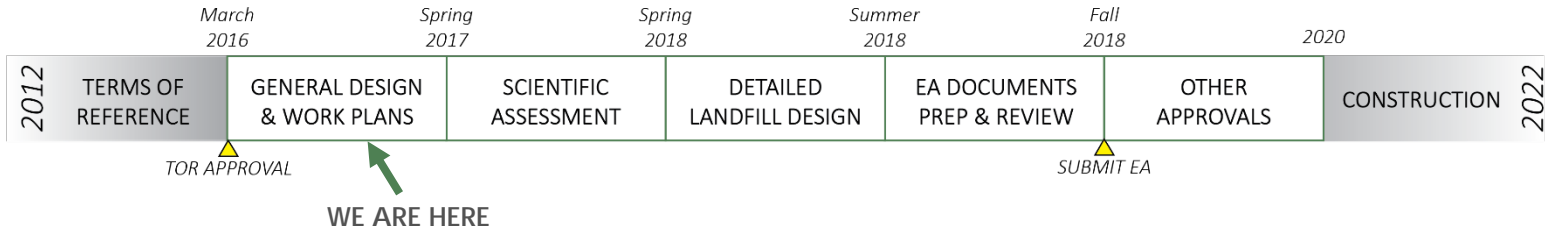
Your comments were recorded and are being used to design the proposed landfill and update the Technical Work Plans. We're looking forward to talking to you in the new year about how the studies will be carried out.

A detailed summary of the Oct & Nov Workshops is available at www.walkerea.com

Results for the 5 Key Landfill Components

Landfill Footprint	The landfill footprint that will be studied is the area on the Carmeuse property that is currently being mined. This area is north of the flooded quarry. The footprint includes the waste area, buffer area, and ancillary facilities like a scalehouse and other infrastructure.
Landfill Design	The landfill design that will be studied is the deep design, which means the landfill will be designed to have minimal slope above ground (low hill) with a generic double composite liner. This type of liner is currently used at the Walker South Landfill in Niagara Falls.
Haul Route	The haul route that will be studied starts at Exit 222 on Highway 401, north on County Road 6, then left onto Carmeuse property to a private road that would be constructed. The site entrance would be in the north/northwest portion of the landfill footprint.
Leachate Management	An on-site treatment plant will be studied as the primary means of leachate treatment. A more detailed design will come later in the process, which may include pre-treatment aeration ponds and various forms of physical, biological, or chemical treatment.
Landfill Gas Management	A combined option of flaring the gas and using the gas as a renewable energy source when possible will be evaluated in the studies. Potential renewable energy uses include as an industrial fuel, generating electricity, or injection into a natural gas pipeline.

Timeline



Next Step: Finalizing Technical Work Plans

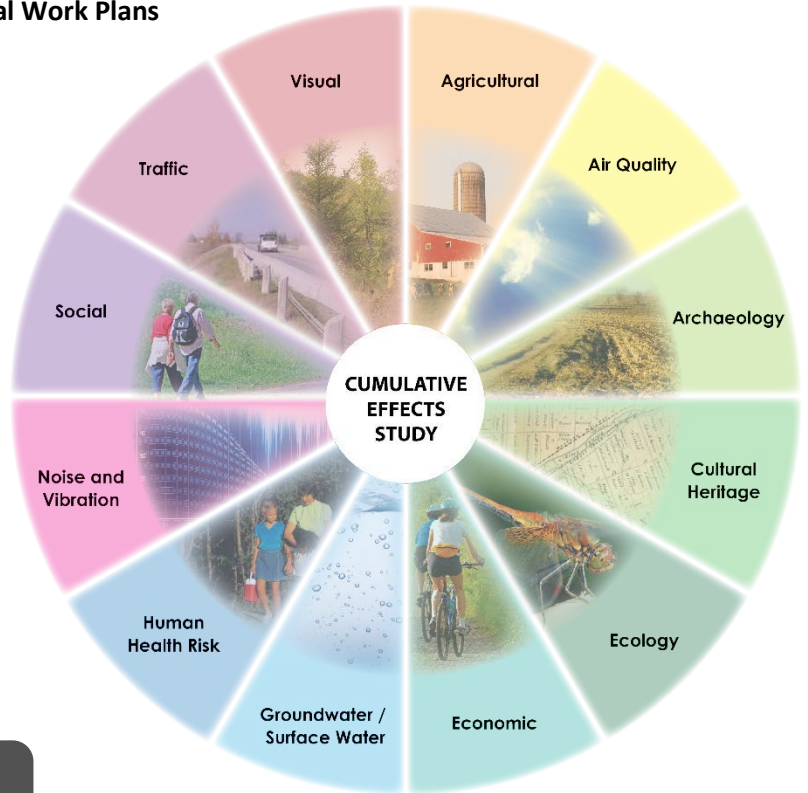
In the coming months, Walker will be **finalizing the Technical Work Plans for 13 different technical studies**. These Plans include:

1. Study area
2. The scope of the study (what is included)
3. How the study will be carried out (ie. sampling, modelling, survey, etc.)
4. What assumptions are used to carry out the study (ie. climate change, land use planning, etc.)

These plans will be reviewed by:

- Provincial Government Technical Review Team
- Peer Review Team that reports to the Joint Municipal Coordinating Committee
- First Nations reviewers

The updated Technical Work Plans will be discussed at an upcoming public event and Community Liaison Committee (CLC) meetings. Anyone who is interested may review them and provide input.



Stay tuned for more details about the
Spring 2017 Public Event
Topic: *Updated Technical Work Plans*

Seasons Greetings from Walker Environmental Wishing you a happy and peaceful holiday season

The Walker Environmental office in Ingersoll will be closed from December 23 – January 2 for the holidays.



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What will happen during the EA in 2017?

- Finalize Technical Work Plans (January – April 2017)
- Host Public Event on the Updated Technical Work Plans (Spring 2017)
- Consult with local residents and organizations
- Consult with First Nations
- Begin Technical & Scientific Studies (Spring 2017-Spring 2018)
- Meet with the Joint Municipal Coordinating Committee (JMCC) at key milestones
- Continue to meet regularly with the Community Liaison Committee (CLC)
- Meet and consult with interested local residents and organizations

Did you know?

You can **subscribe online** to the Southwestern Landfill Project website to get **regular updates directly to your inbox**. The subscribe feature allows you to choose what information you are interested in receiving about the proposed landfill including:

- Announcements
- Community Exchange (Online)
- EA Documents and News
- Events
- Official Notices
- Walker Corporate News



Subscribe on our website
to receive email updates

To subscribe, visit

www.walkerea.com/subscribe

Proposed Strategy for a Waste-Free Ontario

In November 2016, the Ontario government put into effect the **Waste-Free Ontario Act**, a new legislation that aims to reduce waste, increase diversion, create jobs and help fight climate change. Alongside the act, the province is also finalizing its **Strategy for a Waste-Free Ontario: Building the Circular Economy**.

Walker Environmental supported the development of the Act and has been incorporating the key elements of a circular economy in its businesses for over a decade in recovering resources from organic waste.

We encourage you to learn more about the Act and Strategy at <https://news.ontario.ca/ene/en/2016/06/the-waste-free-ontario-act-and-strategy.html>.

The EA Phase has Four Main Stages

The landfill proposal is in the middle of a Provincial process called an Environmental Assessment (EA). The EA assesses if the landfill can be developed and operated safely. Once complete, the Ontario Minister of the Environment and Climate Change will decide if the landfill is approved. The EA phase has four main stages and there are input opportunities throughout:

1. Evaluation of Alternative Methods & Identification of Preferred Alternative (March - December 2016)

Completed

- Evaluate different options (called “alternatives”) for key landfill components (footprint, design, leachate, landfill gas, haul routes).
- Identify a preferred option for each key landfill component (called preferred alternatives).
- Use the Preferred Alternatives and other info to describe the proposed landfill facility (Facility Characteristics).

2. Finalize Technical Work Plans (January 2016 - Spring 2017)

We Are Here

- Update the Draft Technical Work Plans to reflect Facility Characteristics and other updates.
- Finalize the Work Plans with consideration for comments from technical reviewers, First Nations and other interested parties.

More information & regular updates:

www.walkerea.com/en/learn-more-about/Technical-Work-Plans.asp

3. Technical Studies (Spring 2017 - Spring 2018)

Stay Tuned

- Technical consultants carry out studies.
- Some studies will take a full year (4 seasons).
- Technical reviewers, First Nations, and other interested parties will have opportunities to review the results and recommendations.

4. Draft & Final EA Documents (Summer - Fall 2018)

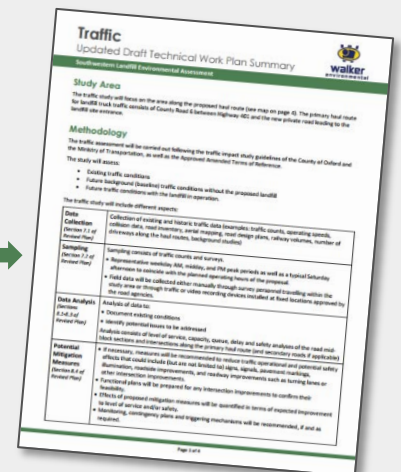
Stay Tuned

- Prepare a draft EA report for review by technical reviewers, First Nations, and other interested parties.
- Finalize the EA report and submit to the Minister of the Environment and Climate Change.

More Information on Work Plans:

<http://www.walkerea.com/en/learn-more-about/Technical-Work-Plans.asp>

- For each work plan, a summary will be available in plain language
- If you have any questions about the work plans or how to access them, please contact us at 1-855-392-5537 or info@walkerea.com.



FEATURE: Traffic Technical Work Plan

This is an example to illustrate the first EA topic of 2017: the updated drafts of the Technical Work Plans.

Now that Walker has completed the Evaluation of Alternative Methods & Identification of Preferred Alternatives, the traffic consultant was able to update the draft Traffic Technical Work Plan. Here is a summary:

Study Area: Haul Route (Highway 401 Exit 222, North on County Road 6, West onto private road into landfill)

Methodology: Assess existing and future traffic conditions with and without the proposed landfill to identify potential impacts. This will include:

- Collecting data (ie. traffic counts, operating speeds, road design plans, number of driveways, etc.)
- Sampling (traffic counts and other field data collection)
- Data Analysis (document existing conditions and identify potential issues)
- Consultation with appropriate agencies (ie. Ministry of Transportation Ontario)
- Recommend mitigation measures (ways to prevent or reduce impacts due to increased traffic)

Key Updates: New information was added including the number of vehicles and the proposed operating hours.

Many community members expressed interest in how Walker will manage potential traffic impacts. From the input we received, we have incorporated the following suggestions:

- Use the shortest haul route on public roads
- Use the road with the fewest residences, farms, public institutions and businesses along the route
- Use the road with the fewest turns and intersection crossings
- Use a road designated for heavy road traffic
- Avoid Beachville Road's bicycle route
- Discuss the challenges at the interchange regarding the service station off-ramp with the Ministry of Transportation Ontario (MTO)

Niagara Traffic Control Measures

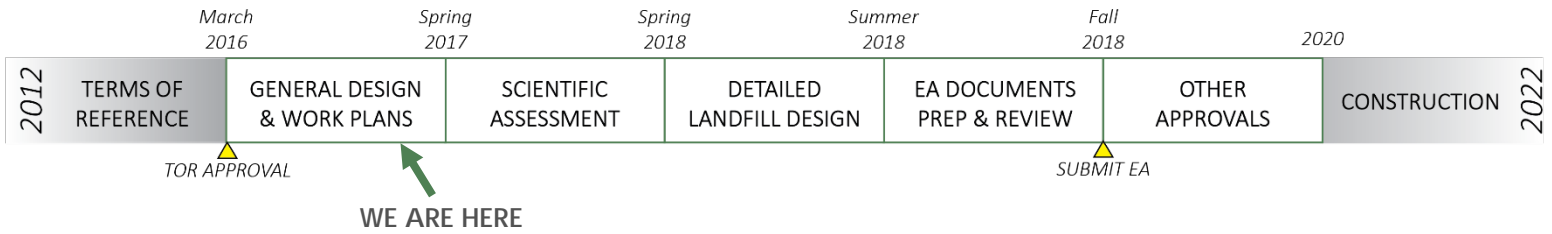
At the Walker Environmental South Landfill in Niagara, a series of traffic control measures are used to support safe and responsible waste haulage to the site. These measures include:

- A designated haul route for good traffic flow to and from the landfill
- A letter with haul route requirements is provided to drivers in their first language
- A traffic enforcement person monitors traffic at key areas
- Drivers are provided with warnings if there are issues and can be prohibited from hauling to the landfill
- A public response line is available for residents with calls returned as soon as possible and within 24 hours
- Funding for road infrastructure maintenance and improvements for haul route



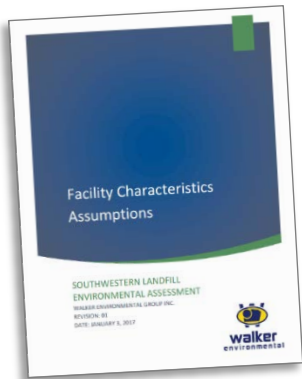
Stay tuned for more details about the
Spring 2017 Public Event
Topic: Updated Draft
Technical Work Plans

Timeline



Documents You May Be Interested In

A variety of documents are created during the Environmental Assessment process. The following is an overview to some key documents you might be interested in. These documents are available on our [website](http://www.walkerea.com) (www.walkerea.com) or by contacting our office. Walker is also available to answer any questions or provide additional resources as needed.



Facility Characteristics Assumptions

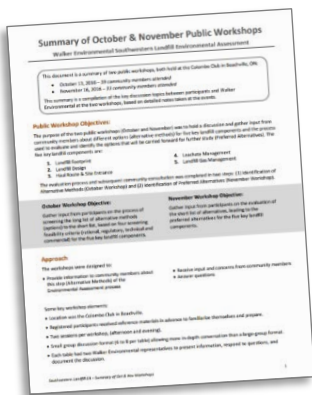
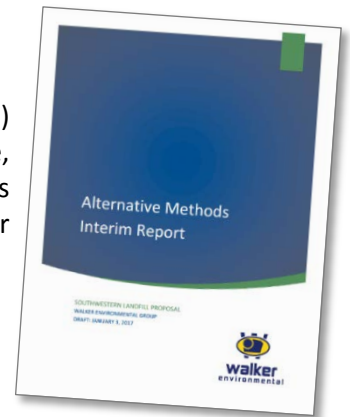
This document describes assumptions for the design and operation of the proposed landfill. They will be used by technical consultants to finalize the work plans and to begin the technical studies.

www.walkerea.com/uploads/874/Doc_636190518718685457.pdf

Interim Report for Alternative Methods

This document describes the assessment of alternatives (options) for 5 key landfill components (footprint, design, haul route, leachate management and landfill gas management). The contents of this paper were the topic of the October and November workshops.

www.walkerea.com/uploads/874/Doc_636190517345498152.pdf



Event Materials & Summaries

Event materials and summaries outlining key topics and concerns are available for various events related to the proposed landfill. There is a combined summary of the October and November workshops, and there are summaries available for Community Liaison Committee (CLC) meetings.

Events: www.walkerea.com/en/outreach/public-events.asp

CLC: www.walkerea.com/en/outreach/Community-Liaison-Committee.asp?_mid_=105074

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WEBSITE: www.walkerea.com

Walker Environmental is proposing a landfill in the Township of Zorra. If approved, it would accept only solid, non-hazardous waste created in Ontario.

Landfill Proposal Update

What is a Technical Work Plan?

- They provide a guide for the 12 technical studies that will be carried out by consultants who are experts in each field.
- Each study includes data collection, sampling and/or computer modelling, and analysis of the data.
- The resulting report will identify any potential impacts on the environment (social, economic, natural environment). The potential for impacts takes into account the recommended prevention and mitigation measures. *(Example: berms and vegetation will be taken into consideration when assessing visual impacts)*
- The Technical Work Plans adhere to all regulations and use guidelines and best practices.

Why are we talking about these Plans?

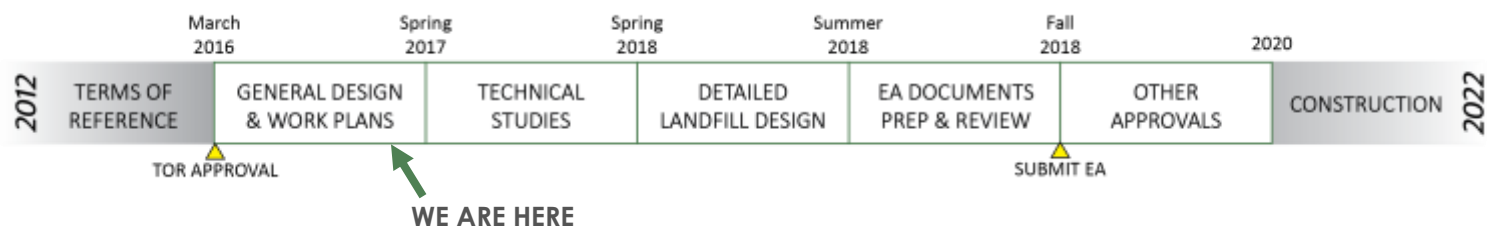
The Technical Work Plans are being updated and finalized prior to the studies beginning in the spring. Right now, our technical experts are updating the Technical Work Plans to incorporate:

- The characteristics of the landfill facility we have developed (example: haul route)
- Projections about local land use and climate change.
- Input from government technical reviewers, First Nations, local municipalities, and community members.



Timeline

Looking at the project timeline, we are on-track to complete the Technical Work Plans in Spring 2017. Once the Plans are complete, we will begin the technical studies.



Community Engagement Update

How can you provide input on the Technical Work Plans?

You can add your perspective and community knowledge to the studies that will assess the landfill.

You might want to tell us about a place where you think the landfill would be visible, a time of day or year the roads are busier, or a local species you think may be sensitive to any potential changes.

Read the documents & provide input	<p>For each work plan, there is a summary in plain language on our website under Learn More About / Technical Work Plans. You may also review the full updated work plans on this page.</p> <p>If you would like to access the documents in a different way, please call us at 1-855-293-5527.</p> <p>Please provide input by April 30, 2017 by contacting our office (phone, email, mail, in-person).</p>						
Attend a public event	<p>There will be a public event on the updated Technical Work Plans in April 2017 – stay tuned for more information.</p>						
Attend a Community Liaison Committee (CLC) meeting as an observer	<p>Reserve a space by calling 1-855-293-5537 or emailing info@walkerea.com. Meeting materials and summaries are posted online under CLC documents.</p> <p><u>Upcoming CLC meeting schedule to discuss work plans:</u></p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 33%;">February 22, 6 pm:</td> <td style="vertical-align: top; width: 33%;">March 22, 6 pm:</td> <td style="vertical-align: top; width: 33%;">April 26, 6 pm:</td> </tr> <tr> <td> <ul style="list-style-type: none"> • Groundwater & Surface Water • Ecology • Cultural Heritage </td> <td> <ul style="list-style-type: none"> • Archeology • Social • Agriculture • Economic </td> <td> <ul style="list-style-type: none"> • Air Quality / Noise & Vibration • Economic • Human Health </td> </tr> </table>	February 22, 6 pm:	March 22, 6 pm:	April 26, 6 pm:	<ul style="list-style-type: none"> • Groundwater & Surface Water • Ecology • Cultural Heritage 	<ul style="list-style-type: none"> • Archeology • Social • Agriculture • Economic 	<ul style="list-style-type: none"> • Air Quality / Noise & Vibration • Economic • Human Health
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Community Liaison Committee (CLC)

- On January 25, 2017, the CLC met to discuss the updated work plans for traffic and visual impact studies, as well as how cumulative effects will be assessed throughout the studies.
 - The traffic consultant responsible for the updated work plan and for the completion of the technical studies attended the meeting to answer questions and receive input from the CLC.
 - A summary of the meeting will be posted on walkerea.com by March 1st under CLC Documents.
- At the next CLC meeting on February 22, 2017, the updated Technical Work Plans for discussion are cultural heritage, groundwater & surface water, and ecology. The groundwater & surface water consultant will attend.
- On January 28, 2017, CLC members attended a bus tour of the Carmeuse property, including the proposed landfill footprint, current operations, and recently rehabilitated areas including the flooded quarry.

Public Engagement Activities

- We uploaded new information to www.walkerea.com about updated technical work plans, including plain language summaries. (Find under “Learn More About / Technical Work Plans”)
- We are preparing for a public event in April 2017 about the technical work plans to provide information about how the studies will be carried out, and to hear input from community members.

Feature: Updated Groundwater & Surface Water Work Plan

Study Area:

- Existing Carmeuse Lime site
- Landfill buffer zones
- Local area where surface water discharge from the site is currently permitted by other businesses
- Where the groundwater may potentially be drawn down to below original water levels as a result of the proposed landfill activities

Key Study Components:

- Flood and erosion hazards.
- Potential for changes to the flow in local streams (example: Thames River)
- The potential for groundwater or surface water impacts with prevention and mitigation measures in place like the landfill liner, regular testing, and treating the water that comes into contact with waste.

Key Updates: Many community members expressed interest in how Walker will manage water. From the input we received, here are a few examples of how we have integrated public input into this study:

Flood events that are expected to occur only once in 250 years.

Identify and determine potential effects on Wellhead Protection Areas.

An expert in karst geology will work on the water study.

Example of Water Protection Measures: South Landfill in Niagara

Walker understands the importance of clean groundwater and surface water protection to have a healthy environment and healthy people. Water protection is the #1 reason that today's landfills are so carefully designed with back-up plans and testing schedules in place long before the first day of construction.

Our Landfill in Niagara is held to strict environmental protection requirements. To ensure safe and responsible water management, here are a few of the protection measures we have put into place:

- A 12-foot tall Generic Double Composite Liner designed in accordance with Ministry of the Environment and Climate Change (MOECC) regulations (O. Reg.232/98).
- A leachate management system designed to handle all water that touches waste and directs it to the treatment plant.
- Regular monitoring of ground water, surface water, and leachate system on and around the site.
- Annual reporting to the MOECC on all testing results (immediate reporting would occur if any potential issues were found).
- Financial assurance money set aside and managed by the MOECC to care for the site, in the event Walker was unable to do so.
- In the 35 years of Walker landfill operations, there have been no negative impacts to local surface water or ground water quality that would trigger contingency plans.



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Walker Environmental is proposing a landfill in the Township of Zorra.
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Landfill Proposal Update

In March, we continue to work on updating the Technical Work Plans. The Technical Work Plans are the roadmap on how the landfill proposal will be studied. This is a key milestone for the Southwestern Landfill Environmental Assessment and each study will include data collection, sampling and/or computer modelling, and an evaluation of the information collected to produce a report.

We are Seeking Community Input on the Updated Technical Work Plans

You can add your perspective and community knowledge to the studies that will assess the landfill.

For example, you might want to tell us about a viewpoint where you think the landfill would be visible, a time of day or year the roads are busier, or a local species you think may be sensitive to any potential changes.

Public Event:

Finalization of Technical Work Plans

Wednesday, April 19, 2017

11 a.m. to 2 p.m. & 5 p.m. to 8 p.m.

Colombo Club – 434719 West Hill Line, Beachville, ON

- Review & discuss the technical work plans
- Provide input prior to the start of the technical studies
- Learn how the technical studies will be carried out
- Ask questions & provide input

Register and receive the materials in advance:

- Online: <https://swlfpublicevent.eventbrite.ca>
- Call 1-855-392-5537 (toll-free)
- Email info@walkerea.com
- Register at the door and receive a copy then

Unable to attend? We would still like to hear from you. Here are other ways you can provide input:

- **Review the documents from home:** For each work plan, there is a summary on our [website](#). If you would like to access the documents in a different way, please call us at 1-855-293-5527.
- **Schedule a meeting:** Call our office to schedule a meeting with one of our team members for you or your organization. We are happy to meet with you at a place and time that is convenient for you.
- **Attend a CLC Meeting:** Reserve a space by calling 1-855-293-5537 or emailing info@walkerea.com. Meeting materials and summaries are posted online under [CLC documents](#). Next meetings: March 22 and April 26 at 6 p.m.

Community Engagement Update

- The Community Liaison Committee met on February 22 to discuss three of the updated work plans. A summary of the meeting will be posted on walkerea.com under CLC Documents.
- Updated Technical Work Plans and plain-language summaries are available at www.walkerea.com and under “Learn More About → Technical Work Plans”
- On March 21st, Walker will be meeting with First Nations representatives to discuss the status of the project, provide information on the updates to the technical work plans and gather feedback.
- We heard from community members that Public Event times earlier in the day would be helpful. At the upcoming public event on April 19th, you can attend between 11 a.m. – 2 p.m. or between 5 p.m. – 8 p.m.

Feature Study: Human Health Risk Assessment

Protecting Human Health

Before the proposed landfill can be approved, the Ministry of the Environment and Climate Change must ensure that potential effects are understood and will be prevented and managed appropriately, including protecting human health.

How is the Human Health Risk Assessment (HHRA) done?

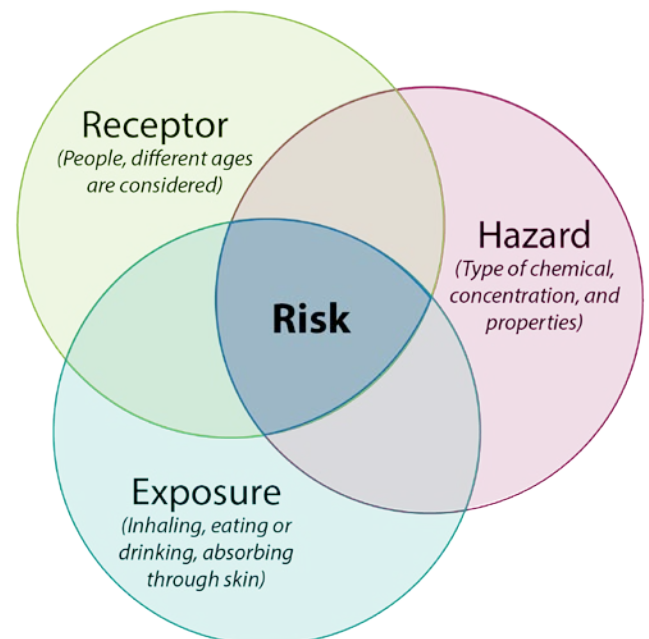
The HHRA uses information collected from other studies to find out if there are any potential risks to human health.

What does the study include?

The study will provide information on any potential risk to human health. Risk will be assessed without the proposed landfill (current conditions) and then with the proposed landfill (predicted conditions).

How is a risk to human health assessed?

For there to be a risk to human health, there has to be an overlap of three things: a hazard, an exposure pathway, and a receptor. The diagram to the right shows this overlap.



There will also be a Supplementary Health Review

Suggested by Walker and endorsed by the Minister.

The health expert will review the findings of the social and economic assessments to see if there is any potential for related health effects.

The Oxford County Medical Officer of Health will be consulted.

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Landfill Proposal Update

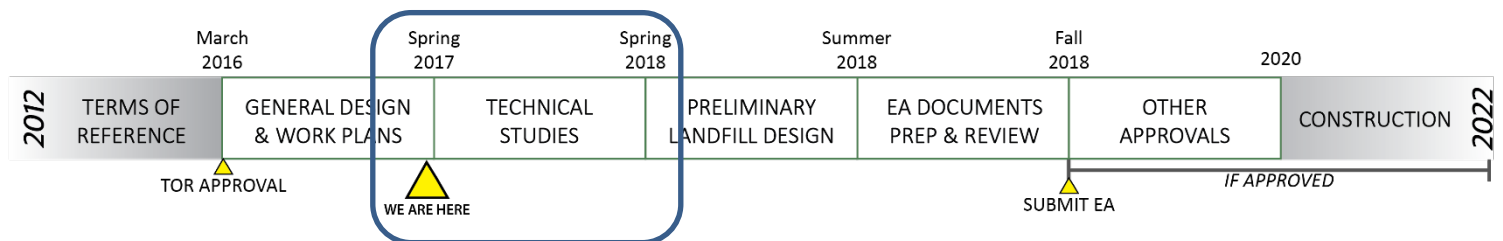
This month, Walker hosted a public event on the **Finalization of the Technical Work Plans**. At this event, participants had the opportunity to learn how the landfill will be studied across 12 environmental disciplines. Community input was collected and will be integrated in advance of finalizing the work plans.

Here are a few things we have heard:

- **Air Quality Study** - The east side of the proposed site is near personal property. Consider measures like berms, litter fences, and others to prevent impacts.
- **Air Quality, Noise/Vibration, Traffic Studies** - Consider receptor locations in key areas such as child or daycare centres, cemeteries, parks and nature trails.
- **Social & Economic Study** - Consider the [Canterbury Folk Festival](#) as an opportunity to survey residents & tourists.
- **Traffic Study** - The haul route experiences an increase in traffic from recreational vehicles (RVs) during the summer and snowmobile traffic in the winter.
- **Social Study** - Concern that local outdoor events may be negatively impacted by landfill stigma.
- **Traffic Study** - Consider shift changes as peak periods of road use.

We are still collecting comments on the Updated Technical Work Plans until May 15 2017. Please contact us by phone, online, email, by mail, or in-person to provide input.

What happens next?



- Beginning in late spring 2017, the technical consultants will begin the studies.
- Some of the studies will take a full year and cover all four seasons.
- Once the studies are complete, technical reviewers, First Nations, local community members, and other interested parties will have opportunities to review and provide input on the results and recommendations.

Community Engagement Update

- The Community Liaison Committee met on March 22 and April 26 to discuss updated work plans. A summary of the March meeting is available on www.walkerea.com under CLC Documents. The April summary will be posted on June 1 after CLC approval.
- On March 21, Walker met with First Nations representatives to discuss the status of the project, provide information on the updates to the technical work plans, gather input, and discuss next steps.
- Walker met with Carmeuse employees to discuss the status of the project and answer questions including how the quarry and landfill would coexist if the landfill is approved and Walker's experience operating modern engineered landfills.
- Walker made a presentation to the Oxford County Federation of Agriculture to provide an update on the project and the technical work plans, with focus on the agriculture work plan. Discussion included the landfill liner and landfill operations.

Feature Topic: Air Quality

The Air Quality study assesses the potential effects on air quality from the proposed landfill. It will evaluate potential effects from dust, landfill gas, odour, blowing litter, vehicle exhaust, and other sources.

The air quality study will:

- Look at five years of hourly weather data.
- Consider past studies and monitoring of local air quality.
- Collect additional background data where needed.
- Model the air quality of the proposed landfill.
- Report on potential for effects on air quality, including combined effects with quarrying activities.
- Recommend measures to prevent and minimize impacts.

Our Experience in Niagara:

- Trucks hauling waste are fully closed or covered.
- Fences are used to stop litter from going off-site.
- Waste is covered at the end of each day to prevent blowing litter and odour.
- Landfill gas is collected and managed to prevent odours, reduce greenhouse gas emissions, and create renewable energy.
- A full-time professional falconer licenced by the Ministry of Natural Resources controls seagulls using birds of prey.
- A full-time street sweeper reduces dust on roads.
- A dedicated phone number for community members to contact Walker directly. Calls are returned as soon as possible, always within 24 hours.

Air monitoring equipment



Dean with Alex the owl



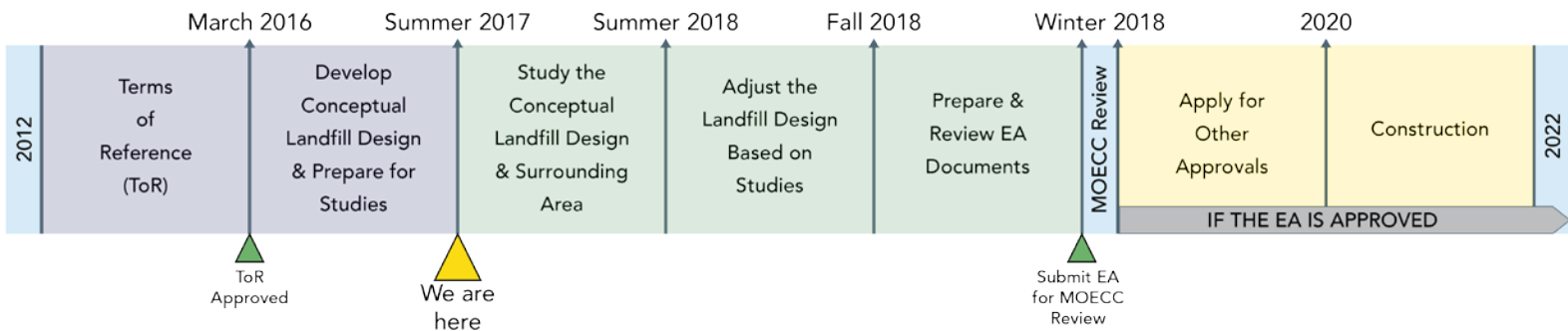
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Landfill Proposal Update

Finalizing the Work Plans & Starting the Studies

Since the beginning of 2017, Walker has been collecting input from the public, First Nations, the Community Liaison Committee (CLC), Technical Reviewers and other interested parties on the 12 Technical Work Plans. We would like to thank all those who attended our public events, or submitted comments online, by email, by phone, or in-person.

With these inputs and comments, we are able to finalize the Work Plans, which will be posted on our project website at www.walkerea.com once complete. We will now begin the studies, which will take approximately one year.



Have Questions About the Next Phase?



Schedule a Meeting
We are happy to meet with you at a place and time that is convenient for you.



Review Project Info: On our website at www.walkerea.com or call us at 1-855-293-5527

Community Engagement Update

- The **Community Liaison Committee** met on April 26 and May 24 to discuss the updated Work Plans for Air Quality, Human Health Risk Assessment, Archaeology, and Ecology, and Cumulative Effects. These two meetings wrap up the discussion on the Finalization of the Technical Work Plans before the studies begin. Summaries CLC meetings are available online at www.walkerea.com under CLC Documents.
- Walker met with the **Ingersoll Chamber of Commerce** board of Directors to provide an update on the project and to discuss the Technical Work Plans, particularly the Economic Work Plan.

Feature Topic: Ecology

The Ecology study assesses if and how the local ecological system could be impacted by the proposed landfill. It includes ecology on land and in water (terrestrial and aquatic).



The study will include:

- Review of existing information such as past local ecological studies
- Collection of data through all four seasons
- Species at risk/rare species
- Fish community, both upstream and downstream.
- Breeding birds
- Amphibians (visual and auditory surveys)
- Benthic invertebrates (animals/insects that live in sediment underwater)
- Trees/plants
- Landscape surveys using aerial photography
- Report on potential effects on ecology from the proposed landfill
- Recommendations on how to prevent or minimize negative effects

Summary of community knowledge and input received:

Shared Community Knowledge:

- Endangered or rare species have been spotted in the area, including bald eagles and softshell turtles
- There is an medical helicopter route between London and Woodstock in the area of the proposed landfill site
- Many crows in the area (potential migration route)
- Patterson-Robbins Drain (Cemetery Creek) sometimes dries up; climate change may increase frequency

Input & Concerns:

- Interest in a thorough study of the local ecology
- How water quality/quantity interacts with ecology
- Potential for disease-carrying birds to impact livestock
- Interest in proper study of local Species at Risk
- Interest in how the landfill would interact with the ecology of the flooded quarry



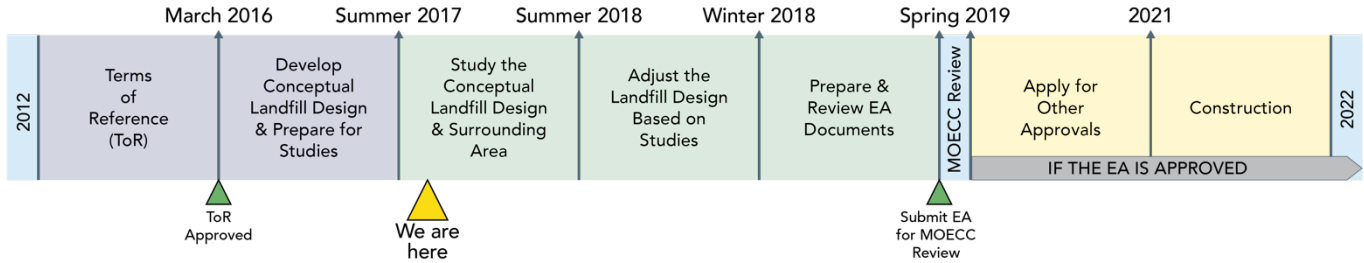
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Landfill Proposal Update





Beginning the Technical Studies

Walker’s consultants on the Southwestern Landfill Proposal are beginning the technical studies. The studies will be completed over the next four seasons to ensure a comprehensive assessment of conditions. The studies include 13 different disciplines which are outlined in the diagram to the right. For more information on the studies, please visit the project website www.walkerea.com.



Field Work has started

Community members may notice field work activities being completed in the surrounding area of the proposed landfill. Below are a few examples of what the consultants will be doing in upcoming weeks:

- 
Groundwater & Surface Water
 - Borehole drilling to monitor and study groundwater flow and quality, geology and soil conditions.
 - Inventory surface water uses.
 - Monitoring local surface water flow and quality.
- 
Ecology
 - Initial field survey to identify terrestrial species and habitat.
 - Field data collection throughout all four seasons including floral survey, species at risk/rare species, breeding bird surveys, amphibian visual and auditory surveys, and landscape surveys using aerial photography.
- 
Traffic
 - Site visit along the preferred haul route to catalogue its characteristics & conditions such as road characteristics, residential/commercial driveways.
- 
Visual
 - Photographing viewpoints where the site is visible once leaves have fallen from trees and there is potential for change as a result of the proposed landfill.

Public Event – Office Open House

Do you have questions about the technical studies?

Come to the Office Open House:

- Get an overview of the current studies
- Find out what study activities you could see in the community
- Learn more about this EA

**If the hours are not convenient for you,
please call for an appointment at 1-855-392-5537.**

Office Open House November 28-30, 2017

Location: Walker Environmental Office
160 Carnegie Street, Ingersoll

Hours:

Tues - Nov 28	3 pm – 8 pm
Wed - Nov 29	9 am – 2 pm
Thurs - Nov 30	3 pm – 8 pm

 1.855.392.5537  160 Carnegie St., Ingersoll, ON  info@walkerind.com  www.walkerea.com

Have Questions About the Proposed Landfill?

Schedule a meeting: Call our office to schedule a meeting with one of our team members for you or your organization. We are happy to meet with you at a place and time that is convenient for you.

For more information about the Southwestern Landfill EA: please visit our website or call us at 1-855-293-5527.

Community Engagement Update

- The **Community Liaison Committee** resumed meeting on September 20, 2017. Walker provided an update on the EA and discussed upcoming field work activities. The CLC members also completed an annual review including modifying the CLC Charter to add clarifying definitions on the different participant types at the meetings. A summary of the meeting along with the revised CLC Charter will be posted on www.walkerea.com under CLC Documents.
- On the last weekend of August, Walker provided waste disposal bins including compost and recycling to the **Mississaugas of the New Credit First Nation Pow Wow**. This is the fourth year that Walker has participated in the Pow Wow's efforts to make it a "waste free" event.
- Walker staff enjoyed a sunny day golfing at the **18th Annual Rotary Club of Ingersoll Golf Tournament** in early September.



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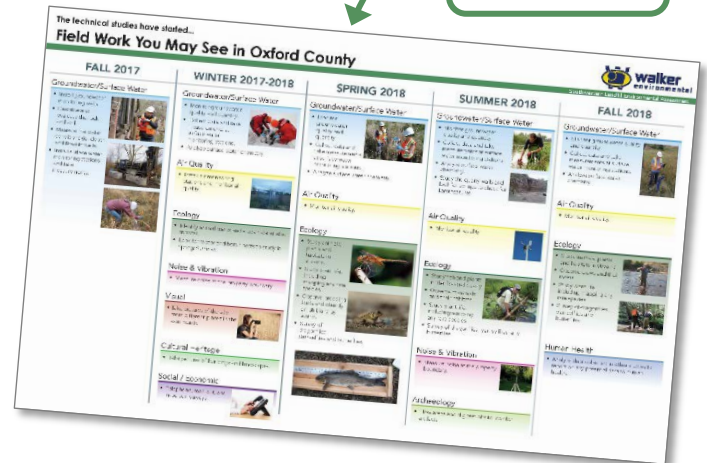
Landfill Proposal Update

Field Work in the Community

Field work is an essential part of good technical and scientific studies for an Environmental Assessment. The field work captures what the environment is like right now. This includes the natural environment, as well as the social and economic environment.

Check out the attached sheet called “Field Work You May See in Oxford County” to see what’s coming up.

Full-size copy attached!



Do you have questions or concerns? Let's talk.

Making sure your concerns and comments are heard and addressed is a key goal of the Environmental Assessment process. By talking to Walker, you can ensure that your thoughts are taken into consideration by the Ministry of the Environment and Climate Change.

Meet Us: At our office, at your kitchen table, or another place convenient for you.
Just give us a call.

Call Us: Toll-free 1-855-392-5537

Email Us: info@walkerea.com

Learn more: www.walkerea.com



Thank You for Attending the Open House

Local community members attended the November 28-30 Open House at Walker Environmental's Ingersoll office. There was a lot of constructive discussion, including:

- Field work in the community
- The importance of water protection
- How Walker prevents and manages odour, birds, litter and traffic at our landfills
- Using landfill gas for renewable energy



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Community Engagement Update

The **Community Liaison Committee** met on November 22, 2017 to talk about feedback received during the CLC Annual Review and an update on field work happening in the community.

The next CLC meetings are on **February 21** and **May 23, 2018**. Did you know that anyone can observe CLC meetings? Call or email us to book your space.

Walker attended and presented at the two-day **Caring for Our Mother Summit at Oneida Nation of the Thames**.

There was a peer-review **roundtable meeting for the Human Health Risk Assessment (HHRA)** work plan on November 28.

Walker Environmental News

Investing in Composting

Walker Environmental added Gro-Bark® to its family of businesses on December 7, 2017. Gro-Bark® is based in Caledon, Ontario and creates high-quality, sustainable products that help plants grow, like compost and mulch. Did you know that bark from logged trees is often left unused in large heaps? One service Gro-Bark® provides is to turn these bark piles into products like soil and mulch that bring nutrients back to soil.



Taking Action on Climate Change

Working together is a great way to tackle big issues like climate change. Walker Environmental recently announced two projects in collaboration with General Motors (GM) and Stelco. The GM engine plant in St. Catharines will use gas from Walker's Niagara landfill to create electricity and reduce fossil fuels. The Stelco steel mill in Hamilton will receive bio-carbon fuels made by Walker to decrease the amount of coal they use. Both of these projects are being supported by grants from the Ontario Centres of Excellence.

Go to www.walkerind.com to read more about these stories.



Seasons Greetings from Walker Environmental Wishing you a happy and peaceful holiday season

The Walker Environmental office in Ingersoll will be closed from December 23 – January 1 for the holidays.

Field Work You May See in Oxford County

FALL 2017

Groundwater/Surface Water

- Install groundwater monitoring wells.
- Describe and evaluate the rock and soil.
- Measure the water conditions (ie. depth and flow) in wells.
- Install surface water monitoring stations and take measurements.



WINTER 2017-2018

Groundwater/Surface Water

- Monitor groundwater quality and quantity.
- Collect data and take measurements at surface water monitoring stations.
- Analyze surface water chemistry.



Air Quality

- Install air monitoring stations and monitor air quality.



Ecology

- Identify animal tracks and study habitat after snowfall.
- Look for raptor and heron nests to study in Spring/Summer.

Noise & Vibration

- Measure noise at the property boundary.

Visual

- Take pictures of the site from different places in the community.



Cultural Heritage

- Take pictures of buildings and landscapes.

Social / Economic

- Telephone, mail-out, and in-person surveys.



SPRING 2018

Groundwater/Surface Water

- Monitor groundwater quality and quantity.
- Collect data and take measurements at surface water monitoring stations.
- Analyze surface water chemistry.

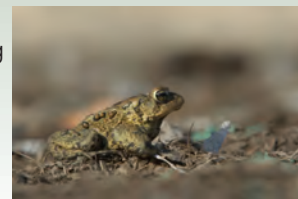


Air Quality

- Monitor air quality.

Ecology

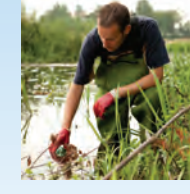
- Study animals, plants and habitats in streams.
- Study plant life, including mapping any rare species.
- Observe breeding birds and identify amphibians by sound.
- Survey of dragonflies, damselflies and butterflies.



SUMMER 2018

Groundwater/Surface Water

- Monitor groundwater quality and quantity.
- Collect data and take measurements at surface water monitoring stations.
- Analyze surface water chemistry.
- Study the quarry walls and look for springs to check for karst features.



Air Quality

- Monitor air quality.



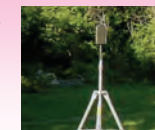
Ecology

- Study fish and plants in the flooded quarry.
- Observe mammals and their habitats.
- Study plant life, including mapping any rare species.
- Survey of dragonflies, damselflies, and butterflies.



Noise & Vibration

- Measure noise at the property boundary.



Archaeology

- Plow areas and dig test pits to look for artifacts.

FALL 2018

Groundwater/Surface Water

- Monitor groundwater quality and quantity.
- Collect data and take measurements at surface water monitoring stations.
- Analyze surface water chemistry.



Air Quality

- Monitor air quality.

Ecology

- Study animals, plants and habitats in streams.
- Observe crows and their roosts.
- Study plant life, including mapping any rare species.
- Survey of dragonflies, damselflies and butterflies.



Human Health

- Analyze data collected in other studies to report on any potential risks to human health.

FALL 2017

WINTER 2017-2018

SPRING 2018

SUMMER 2018

FALL 2018

Groundwater/Surface Water

- Install groundwater monitoring wells.
- Describe and evaluate the rock and soil.
- Measure the water conditions (ie. depth and flow) in wells.
- Install surface water monitoring stations and take measurements.



Groundwater/Surface Water

- Monitor groundwater quality and quantity.
- Collect data and take measurements at surface water monitoring stations.
- Analyze surface water chemistry.



Air Quality

- Install air monitoring stations and monitor air quality.



Ecology

- Identify animal tracks and study habitat after snowfall.
- Look for raptor and heron nests to study in Spring/Summer.

Noise & Vibration

- Measure noise at the property boundary.

Visual

- Take pictures of the site from different places in the community.



Cultural Heritage

- Take pictures of buildings and landscapes.

Social / Economic

- Telephone, mail-out, and in-person surveys.



Groundwater/Surface Water

- Monitor groundwater quality and quantity.
- Collect data and take measurements at surface water monitoring stations.
- Analyze surface water chemistry.

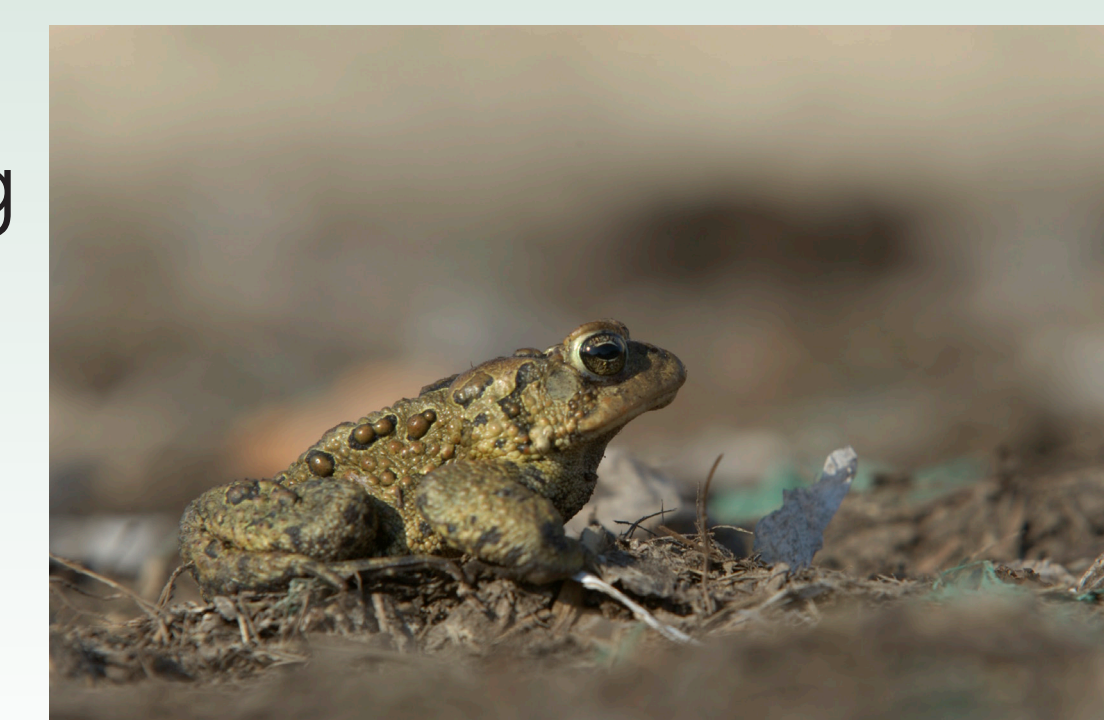


Air Quality

- Monitor air quality.

Ecology

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- Study plant life, including mapping any rare species.
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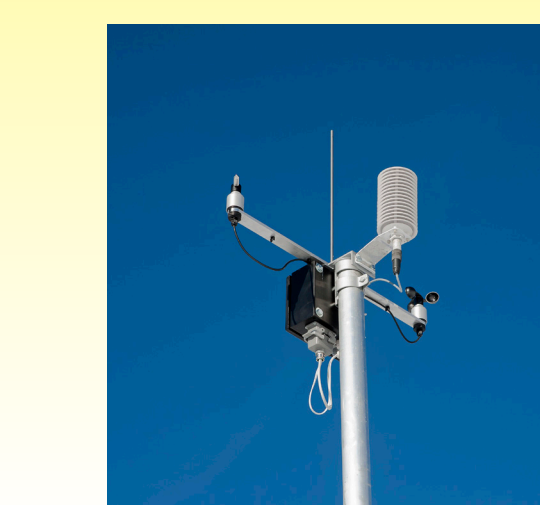
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Human Health

- Analyze data collected in other studies to report on any potential risks to human health.

Landfill Proposal Update

Field Work Underway in Oxford County

Field work is an essential part of good technical and scientific studies for an Environmental Assessment. Walker's consultants are studying the area to understand the existing social, economic, and natural environment.

There are some studies where field work is obvious, like collecting water samples, or looking for different types of animals and habitat. Field work is equally important for other studies, like economic and cultural heritage. It's important that our consultants spend time in the area and talk to people to understand the local character and the views of community members.

Field Work Completed So Far

- Completed groundwater monitoring wells installation
- Installed air monitoring stations
- Completed the winter wildlife survey
- Completed the Public Attitude Research survey (telephone survey)
- Carried out initial site visits for agriculture and cultural heritage surveys
- Started the economic study



Drilling for groundwater monitor well installation.



Checking depth of groundwater monitor well for installation.



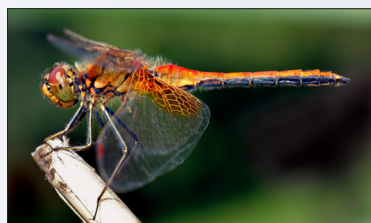
Air monitoring station being installed.



Air monitoring station installed.



Example: Social and Economic Studies



Example: Survey animals (ie. dragonflies)



Example: Surface water monitoring



Example: Aquatic surveying

Field Work Coming Up in Spring 2018

- Ecology surveys of animals and plants on land and in water, including Species at Risk, breeding birds, amphibians, dragonflies, damselflies, and butterflies, as well as others
- Ongoing monitoring of air, groundwater and surface water at established stations
- Continuing the social and economic studies
- Measuring current noise levels

Community Engagement Update

The Community Liaison Committee met on February 21, 2018 to discuss how the studies and field work are progressing. There was a lot of interest and questions about the Air Quality study, so we'll be continuing that conversation at our next meeting.

The next CLC meeting is May 23, 2018. Did you know that anyone can observe CLC meetings? Call or email us to book your space.

You may have heard our advertisement on Heart FM, or seen our ad on their website. These ads support our efforts to let people know how they can connect with us.

VISIT US: 160 Carnegie St., Ingersoll, ON
TOLL FREE: 1-855-392-5537
EMAIL: info@walkerea.com
WEBSITE: www.walkerea.com

Walker News

Giving used shingles a new life

With spring on the horizon, many people will be budgeting for a new roof. Have you ever wondered what happens to the old shingles when they are taken away?

Typically, they are sent to landfill. However, Walker Environmental is developing a new process that turns old shingles into new sustainable products. In the past year, Walker has diverted 28,000 tonnes from landfills while creating new products. We are also working closely with the Region of Niagara to repurpose shingles diverted at the three Regionally-operated landfills.



Once the shingles have been ground through Walker Environmental's grinders, they are then fed through a deck screen (pictured above) where the material is separated and screened into three different size specifications. Each size specification is used for different end-uses, with the smallest specification of the three being ideal for the paving project.

Walker is grinding the shingles, which are then mixed with Recycled Asphalt Pavement (RAP) to create a paving product. To evaluate the product's performance, Walker is paving test areas around its Niagara resource recovery campus to see how these areas hold up over time.

Walker is also considering how to separate the paper backing from shingles, and how that paper could be used as a replacement for coal fuels.

This initiative is one of many examples of how Walker is recovering resources, creating sustainable products and supporting the transition to a circular economy.



Save Paper - Save Time - Go Paperless

Call 1-855-392-5537 or visit to www.walkerea.com/subscribe to receive the Community Exchange Newsletter & project updates directly to your inbox.

Landfill Proposal Update – Continuing the Technical Studies

Spring Field Work is Complete!

Spring is a key season for field work, especially for ecology because animals are breeding. We've also been monitoring surface water, groundwater, and air as part of our 4-season data collection. Other studies are moving forward as well, through background research, data collection, modelling, and discussions.

What the Ecologists did this Spring:



Birds

Studied their habitat and observed birds by sight and sound during breeding season.



Fish

Caught, identified and measured fish and studied their habitat.



Turtles

Observed turtles basking during sunny weather and studied their habitat.



Amphibians

Listened for frog calls in the evening during breeding season at certain temperatures.



Vegetation

Documented plant species to categorize areas by "Ecological Land Classification".

Seasonal Monitoring Continues:



Surface Water

Testing the water quality and measuring flow (amount of water and speed) in local waterways.



Groundwater

Testing the water quality and quantity at different depths at six locations.



Air Quality

Taking samples and downloading data from three air quality monitoring stations.

Field Work Observers Participate in the Southwestern Landfill Studies

People who are interested in learning more about the local environment as part of the Southwestern Landfill studies have been accompanying our consultants to observe field work.

❖ JMCC Peer Review Team

Groundwater and ecology specialists working on behalf of the local municipalities through the Joint Municipal Coordinating Committee (JMCC) have toured the proposed site and observed field work.

❖ MNCFN Field Reps

Trained field liaison representatives from the Mississaugas of the New Credit First Nation (MNCFN) have observed many ecology surveys, as well as surface water and groundwater monitoring.

❖ CLC Members

Members of the Community Liaison Committee (CLC) have observed fish, turtle, and amphibian surveys.

Community Engagement Update

The **Community Liaison Committee** met on May 23, 2018 to talk about ongoing field work and how we will discuss the results as the studies wrap up. The next CLC meetings are on **Aug. 22** and **Nov. 21, 2018**, book your observer seat today!

Walker had a booth at the **Annual Open House for the Department of Consultation and Accommodation** at the Mississaugas of the New Credit First Nation. We spoke with community members about our company and projects.

Our team continued to meet with representatives from **Indigenous communities** to learn about their unique perspectives, and listen to their input on the Southwestern Landfill EA.

Turtle Crossing Season – May to July

You may have encountered a turtle crossing the road. Did you know they often cross roads to lay their eggs? You can help by reporting injured turtles and helping turtles cross roads!



Injured Turtle Hotline:

705-741-5000

Learn more at www.ontarioturtle.ca

Help a Turtle Cross the Street

Do:

- ✓ Help the turtle move in the direction it was going.
- ✓ Use a shovel or board to gently guide the turtle across the road.
- ✓ If picking up, use both hands, holding the turtle by its sides.
- ✓ Be careful with snapping turtles, they can cause injuries. It's usually better to guide them than pick them up.

Don't:

- ✗ Pick a turtle up by the tail – you can damage its spine.
- ✗ Tap or knock on the shell.



Niagara Beeway helps restore snapping turtle populations

“Advocating for species native to Niagara” is the mission statement of Beeway Niagara. Don't let their name fool you, they care for all creatures, not just bees!

One such creature is the snapping turtle, a species native to Ontario found from Point Pelee to North Bay.

Snapping turtles bury their eggs, and the clay in Niagara is tough for turtle moms. Walker Environmental donated mulch for habitat, which is much easier for digging and is soft for the eggs.

Niagara Beeway collects the eggs and cares for them, achieving a 90% hatch rate, instead of the normal 2%, since many animals eat turtle eggs.

www.niagarabeeway.com/snapping-turtles

Landfill Proposal Update – Economic Benefits

We are often asked, “What benefits would the Southwestern Landfill provide?” If approved, the landfill would bring a wide range of new opportunities and economic benefits to the local area (within a 1-hour drive). Here are some examples:



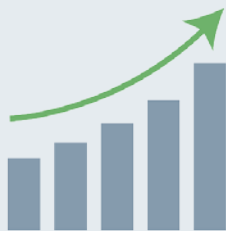
110 new jobs
will be created locally

This includes direct, indirect and induced jobs.

The Southwestern Landfill would create approximately 110 new local jobs, including *direct* jobs (employees), *indirect* jobs (contractors and suppliers), and *induced* jobs (employee and contractor spending).

- Heavy Equipment Operators
- Environmental Specialists
- Health and Safety Professionals
- General Labourers
- Administrative Support
- Mechanics
- Engineers
- Truck Drivers
- and more...

\$ 8 Million
in annual **wages**
in *the local economy*



Over **\$13 million**
in **tax revenue** for
local municipalities
with **\$20 million** in tax
revenue in *Ontario*

Like all businesses, the Southwestern Landfill would pay taxes. If approved, the landfill will generate more than \$13 million in local municipal tax revenue (not including property tax) over the 20-year lifespan of the project.

Many local businesses in Oxford County ship their waste to a private landfill over 100 km away. The Southwestern Landfill would save local businesses over \$250,000 per year by providing a local waste disposal option.



Helping local
businesses **save** more
than **\$250,000 / year**
in waste disposal costs



More funding for
local community
initiatives such as:

- parks & recreation
- community infrastructure
- scholarships & grants, etc.

Like similar facilities in Ontario, the Southwestern Landfill would provide funding to support local community initiatives. This is typically achieved through Host Community Agreements. Host and adjacent municipalities can use these funds for things like recreational facilities, community infrastructure, and green space.

Community Engagement Update

Community Liaison Committee

The **Community Liaison Committee** met on Aug. 22, 2018 to talk about historical and ongoing air monitoring, as well as an update on field work. The next CLC meeting is on **Nov. 28, 2018**, book your observer seat today!

Tours

We hosted a **tour of our resource recovery and disposal campus in Niagara**, where our operating landfill is very similar to the Southwestern Landfill proposal. **Are you interested in a tour?** Contact us today!

Facebook

We started a **“Walker Environmental Southwestern Landfill” Facebook page** to open another communication channel for providing project updates and other information. **Follow the page for regular updates!**

Waste Free Lunches for School and Work

September is a great time to start new routines – kids are going back to school, fall is in the air, and warmer clothes come out of the closet.

Why not start a new routine of packing waste free lunches for school or work?



Zero Waste Canada has some tips for waste free lunches:

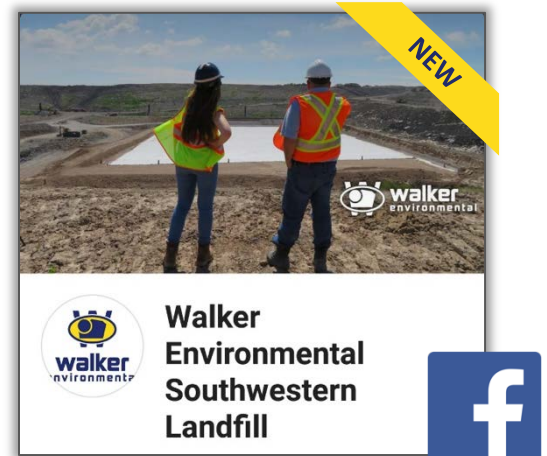
- Re-useable lunch bag or kit
- Pack food and drinks in reusable containers
- Use cloth napkins and reusable cutlery
- Make your own snacks like granola bars or cookies to pack in reusable containers
- Try making lunch fun and creative by using a bento box or a mason jar for adults or older kids
- Buy bulk instead of single servings (i.e. buy a large yogurt and put a smaller portion in a reusable container)
- Involve kids in the waste-free lunch goal during meal planning and preparation
- Avoid the morning rush by packing lunches the night before

<https://zerowastecanada.ca/tag/waste-free-lunch-challenge/>

Southwestern Landfill Facebook Page

Thank you to everyone who has started following our new “Walker Environmental Southwestern Landfill” Facebook page!

Since the start of the Environmental Assessment in 2012, we have worked to provide useful and accurate information at our local office, at public events, in our newsletter, and online. We are excited to now be able to keep you up-to-date on Facebook!



Landfill Proposal Update

The Past Year

Over the past year, experts have been studying the local environment. Studies include the natural environment, like animals, plants, water, and air. They also include the social and economic environment, like how people and businesses use and enjoy the community.

The Next Step

Experts will be using the background information and data they've gathered to write a report on what the environment is like right now and what it would be like with the landfill.

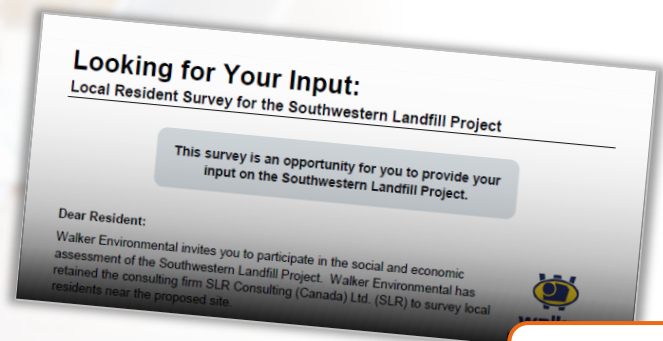


Coming to Your Mailbox – Local Resident Survey

As part of our social study, we are finding out how people use and enjoy their property and community using the Local Resident Survey.

When you fill out the survey and mail it in, you are ensuring that Walker can consider your lifestyle when we're designing the landfill, including how it would operate day-to-day.

Your input could change the proposed landfill to fit your neighbourhood and community better.



Due Date:
Jan. 4, 2019

Community Engagement Update

Community Liaison Committee

The **Community Liaison Committee** met on Nov. 28, 2018 to talk about existing environmental conditions for ecology, economics, and air quality. The next CLC meeting is on **Feb. 27, 2018**, book your observer seat today!

Business Survey







We hand-delivered **over 300 surveys to local businesses**. The survey is an opportunity for owners to ensure the needs of their business and their views are taken into consideration in the landfill planning process.

Indigenous Field Liaison Representatives

Representatives from First Nations have been **observing the field work**, like water sampling and turtle surveys. The representatives have training in many different areas.

Tips for a Waste-Free Holiday Season

December is a busy time with presents to buy, cookies to bake, and parties to attend. With a little planning, decreasing your holiday waste is a breeze!

-  Send e-cards or handwritten letters rather than Christmas cards
-  Wrap presents in re-useable bags or boxes, or re-used products like newspaper or old fabric
-  Give loved ones the gift of experiences like a concert, cooking class, spa time, or sports tickets rather than things
-  Use your talents to make homemade gifts, like knitting, baking, canning, or woodworking
-  Use leftover food scraps for more meals like turkey soup and compost the rest
-  Start a secret Santa gift exchange so you can get one person the gift they really want rather than small gifts for each person



Seasons Greetings
Wishing you and your family a happy & peaceful holiday season

The Walker Environmental office in Ingersoll will be closed from Dec 24 – Jan 1 for the holidays.



Welcome Emily!

Stop by our office to meet Emily, our new team member dedicated to community outreach.

Landfill Proposal Update

Thank you for Participating in the Local Resident Survey!

Thank you to everyone who participated in our local resident survey! There was high participation, with over 1300 surveys filled out and mailed in!

Your input from this survey is part of the Social Impact Assessment. You'll be able to see the final results of all 12 studies in the Draft Environmental Assessment this summer.



The Next Step – Draft Environmental Assessment

Draft EA – Summer 2019

Stay tuned for information about public events and other opportunities to be involved!

The Draft Environmental Assessment (EA) will be available for review and comment this summer!

The Draft EA will outline the results of the 12 studies, showing the potential negative and positive effects of the landfill on the all aspects of the environment. You will also be able to see how your input is being taken into consideration.

This is an important time to get involved and share your input! Stay tuned for more information about public events in this newsletter, on our website, in your local paper, and on our Facebook page. If you would rather talk one-on-one, we can set up a meeting at a time and place that's convenient for you!



Welcome Leslie!

Stop by our Ingersoll office to meet Leslie, our newest team member! Leslie is a long-time resident of Oxford County and is passionate about Environmental Science.

Community Engagement Update

Community Liaison Committee

The **Community Liaison Committee** will meet on March 27, 2019 to talk about preliminary existing conditions for groundwater/surface water, traffic, social, and archaeology. The following CLC meeting will be held soon after the Draft EA is released this summer.

Consultants Roundtable Meeting

The consultants working on the 12 studies for the Environmental Assessment met on Jan. 31, 2019. Some studies rely on data from other studies, such as the health study requiring air quality data. This means coordination and communication between consultants is important.

Support bees and other pollinators in your home garden!

Bees and other pollinators, like butterflies, are essential to growing plants, including the crops we need to survive. Unfortunately, pollinators are at risk because of human activity.

Plan your garden to help pollinators:

Do:

- ✓ Choose plants native to your area – they will attract native bees.
- ✓ Plant a variety of flower shapes and colours, and plants that flower at different times.
- ✓ Include hollow-stemmed plants, decaying wood, leaves, grasses, and bare soil, which support the entire life cycle of pollinators.
- ✓ Choose natural methods of deterring pests (pesticides hurt bees).
- ✓ To attract monarch butterfly caterpillars, plant milkweed – especially in damp, shaded areas.



Walker Industries & Niagara College – Partners in Pollinator Health

In January 2017, Niagara College started the first commercial beekeeping program in Eastern Canada. Walker is supporting the program by providing space on their closed East Landfill for pollinator farms and habitat.

Walker has been involved in helping bees for over 15 years, hosting hives at many different quarry sites, planting pollinator gardens, and supporting employees with an interest in beekeeping.

[Click here to watch the Toronto Star Video](#)

[Click here to read more](#)



We found 6 monarch butterfly caterpillars on just one milkweed plant at our Ingersoll office in 2018!

Landfill Proposal Update

The draft Environmental Assessment (EA) report is coming soon!



Questions and Answers about the Draft EA Report

Q: What is the draft EA report?

A: The draft EA is a comprehensive report that documents the findings of the work completed over the past 3 ½ years.

Q: How will I be notified?

A: We will notify the community when the draft EA report is available using multiple channels such as the project website, the Woodstock Sentinel Review, our Facebook page, and in a Community Exchange.

Q: Where will I find the draft EA report?

A: You will be able to access the draft EA report on our project website and we will have hardcopies available at our office, the Township of Zorra Office, the Ingersoll Public Library, and other locations.

Q: How can I get involved?

A: You can get involved and provide input on the draft EA report by participating at public events, online, visiting our office, by email, or by phone.

Q: Who will I send my comments to?

A: Please send your comments on the draft EA directly to Walker. You can send us your comments by email, fax, or mail.

Summer 2019 Engagement-Tours!

This summer has been an engaging time with tours! We have toured many groups through our Niagara campus. These groups include Indigenous Communities, government officials, students, and international waste management experts.



Are you interested in a tour of our Walker Niagara Campus?

Our tour includes a close look at:

- Operating Landfill
- Landfill Gas-to-Energy Plant
- Closed Landfill/Agricultural End-Use
- Waste-to-Resource Area
- Residential Drop-off Recycling Area
- Compost Site
- N-Viro Fertilizer Facility

...and much more!

If you are interested in a tour, please contact us at info@walkerea.ca or at 1-855-392-5537

Our Walker 2018 Sustainability Report is now available!



“Our legacy matters. Leaving a positive past while creating an optimistic future is at the heart of our company...We trust the stories and information provided in our 2018 Sustainability Report gives readers some perspective as to how we operate.”

*~ John Fisher, President & CEO,
Walker Industries*

Visit our office for a hard copy or view it online at <http://sustainability.walkerind.com/>