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Stoney Creek Regional Facility Environmental Assessment

# **Environmental Assessment (EA) Public Open House #1 Summary Report**





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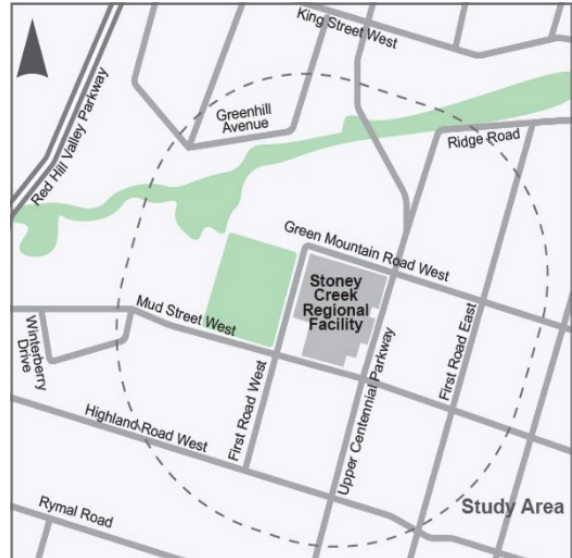
Appendix A	Project-Specific Contact Database
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# 1. Introduction

This report summarizes the Public Open House (December 7, 2017) and the Online Open House (December 7, 2017 to January 12, 2018) held as part of the Stoney Creek Regional Facility Environmental Assessment (SCRF EA).

Terrapure Environmental (Terrapure) has initiated a study under the *Environmental Assessment Act* to assess the various ways of increasing the capacity for residual materials at the Stoney Creek Regional Facility, located at 65 Green Mountain Road West, Stoney Creek, Ontario. The proposed capacity increase would be used by Terrapure to continue to provide disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.



On November 9, 2017, the Minister of the Environment and Climate Change approved the Amended Terms of Reference for the Terrapure Stoney Creek Regional Facility. The environmental assessment (EA) is being carried out according to the Minister approved Amended Terms of Reference and the requirements of the *Environmental Assessment Act*. The public, agencies, Indigenous communities, and other interested persons are being encouraged to participate in the environmental assessment by attending consultation opportunities or by contacting Terrapure directly with information, comments or questions. As part of this EA, Terrapure will hold three open house events at three key decision-making milestones:

- Public Open House #1 – discussion on the developed options, the evaluation criteria and indicators to be applied to the options, and the evaluation methodology that will be utilized.
- Public Open House #2 - reviewing the comparative evaluation results of the options and identifying the recommended option.
- Public Open House #3 - reviewing the impact assessment results of the preferred option, including potential environmental effects, recommended impact management measures, proposed monitoring requirements, and proposed approvals/permits required for implementing the preferred option.

Public Open House #1 was held on December 7, 2017.



## 1.1 Purpose of the Open House

The purpose of the Public and Online Open House was to provide the public with an opportunity to review and provide comments on:

- The EA process
- The six options to accommodate the capacity increase
- The proposed evaluation methodology
- The existing environmental conditions in and around the SCRF
- The proposed consultation methods with the public going forward
- Ask questions, seek clarifications, and provide comments to the Project Team (i.e., Terrapure and GHD).

## 1.2 Date, Time & Location of the Public Open House

Terrapure held a Public Open House on Thursday, December 7, 2017 from 4 p.m. to 8 p.m. at the Salvation Army Winterberry Heights Church (300 Winterberry Drive, Stoney Creek). We chose this location once again because of its close proximity to the SCRF, its familiarity to local community members, its accessibility and compliance under the *Accessibility for Ontarians with Disabilities Act* (AODA), and its size to accommodate attendees.

## 1.3 Adding an Online Component

In an effort to broaden our reach and based on feedback received by community members, we hosted an Online Open House for the public between December 7, 2017 and January 12, 2018. The Online Open House is a way to give interested stakeholders and community members who may not be able to or interested in attending the open house the opportunity to review the information and provide meaningful input.

**Welcome to the Online Open House!**

**START OPEN HOUSE**

Terrapure is seeking approval to increase the capacity for solid, non-hazardous industrial residual materials at the Stoney Creek Regional Facility (SCRF) by 3.68 million cubic metres.

The proposed capacity increase would be used by Terrapure to continue to provide disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.

This is the first of several online open houses that will be held during this Environmental Assessment.

**The purpose of this Open House is to obtain your feedback on...**

1. The six options to accommodate the capacity increase
2. The criteria that will be used to evaluate the options
3. The natural environment and community features surrounding the Stoney Creek Regional Facility
4. The Environmental Assessment study area

The online open house was accessible by visiting the project website. The information on the online open house included all of the same consultation materials (display boards, handouts and comment sheets) presented at the physical open house. Online participants were also able to provide written feedback on the six options for adding capacity at the site, the existing conditions, evaluation criteria, and the proposed consultation opportunities during the EA. Terrapure will consider feedback received from the online open house equally with feedback provided at the in-person open house.

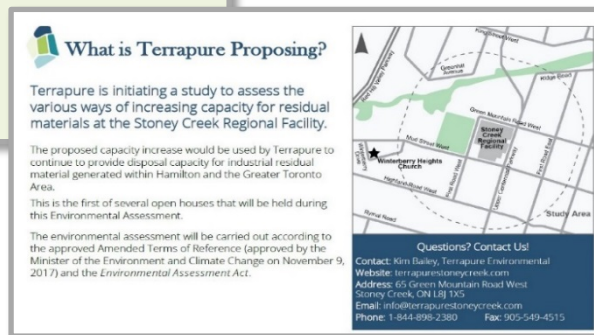
## 2. Notification of the EA Open House #1

Terrapure notified stakeholders of the Public Open House and Online Open House through a variety of means to increase awareness and the potential number of public members attending. For each of the notifications, we promoted both the in-person public Open House as well as the Online Open House. Specifically, the following notifications for the event were distributed:

- Two advertisements in the Hamilton Spectator on November 23 and December 2, 2017
- Advertisement in the Stoney Creek News on November 30, 2018
- Direct mailing and/or emailing between November 21-24, 2017 to all identified agencies, Indigenous communities, and members of the public in the project-specific contact database (see **Appendix A**)
- Unaddressed mail between November 22 -24 of a postcard advertising the Open House to 7,256 residences and businesses within 1.5 km of the site

### New! Mobile Sign Advertising

We placed a mobile sign announcing the Open House beginning on November 22, 2017 on the Terrapure property south of the south-west corner of Upper Centennial Parkway and Green Mountain Road.



- Reminder email distributed to those in the project-specific contact database about the Online Open House on December 7, 2017 and January 11, 2018.
- Notices on the SCRF website and advertised on SCRF Twitter and Facebook accounts were published on November 23 & 29, 2017.



- Information about the Open House posted on the Empire Victory Community private Facebook Group.
- A Story in the Stoney Creek News on November 30, 2017 was published (<https://www.thespec.com/community-story/7968847-open-house-seeks-feedback-on-taro-dump-expansion-bid/>)

Copies of the Notices are included in **Appendix B**.

### 3. Format and Attendance



The format of the Public Open House was an informal drop-in session where public members could attend anytime during the hours, review the information, and meet individually with Project Team members. Terrapure arranged the information by station around the perimeter of the room as follows:



Station	Description
Welcome	<ul style="list-style-type: none"><li>• Purpose of the Open House</li></ul>
Terrapure and the Stoney Creek Regional Facility	<ul style="list-style-type: none"><li>• Information about Terrapure</li><li>• Overview of the existing SCRF and its operations</li><li>• Community involvement</li><li>• A life-sized model of the landfill liner and samples of the types of material accepted at the SCRF</li></ul>
Proposed Changes	<ul style="list-style-type: none"><li>• Proposed changes to the Facility</li><li>• The current approved footprint</li><li>• Information about the six options</li><li>• Photographic renderings of the six options at different viewpoints around the community shown on iPads and in printed handouts</li><li>• Information about the methodology for choosing the preferred option</li><li>• Comment sheet requesting feedback on the six options</li></ul>
Natural Environment & Surrounding Community	<ul style="list-style-type: none"><li>• Overview of the existing natural, social, economic, and built environment in and around the SCRF</li><li>• Comment sheet on the evaluation criteria, the natural environment and surrounding community features to consider in the EA</li></ul>
EA Process & Consultation Opportunities	<ul style="list-style-type: none"><li>• Overview of the EA process in Ontario</li><li>• Identification of consultation opportunities</li><li>• Comment sheet on event feedback and additional comments about the Open House</li></ul>
What's going on at the Stoney Creek Regional Facility	<ul style="list-style-type: none"><li>• Information about the Terrapure Pollinator Project</li><li>• Information about on-going visual improvements and construction going on at the Facility</li></ul>

Copies of the display panels and print material are included in **Appendix C**.

Thirty-eight individuals attended the Open House. From those in attendance, there were local residents and property owners, local business owners, City of Hamilton staff, representative from the Hamilton-Wentworth District School Board, elected officials, members of the SCRF Community Liaison Committee, and members of the media. For the Online Open House, 82 people viewed the information with 23 of those users reviewing it in its entirety.





## 4. Summary of Comments Received

In addition to receiving verbal comments, attendees were encouraged to provide written comments on the comment sheets provided and on flip charts at various stations. Terrapure collected 28 comment sheets from the Open House. An additional 24 comments were submitted via the Online Open House between December 7, 2017 and January 12, 2018. The following subsections summarize the comments received and Terrapure will consider them in the EA. We encourage community members to continue to participate and provide input throughout the SCRF EA process.

### 4.1 Comments on the Options

At the "Proposed Changes" station, attendees were asked to provide comments on the six options. A separate comment sheet was provided and for each option, attendees were asked "What do you like about this option?" and "What do you dislike about this option?" Similarly, the Online Open House included comment forms with the same questions. **Table 4.1** below summarizes the comments raised on each of the six options. This includes comments received verbally, as well as on nine comment forms received at the in-person open house, and in 11 comments received during the Online Open House.

The project team and technical experts will consider these comments during the evaluation of the six options. The recommended option including how comments from the public were considered in this evaluation will be presented at the next open house, currently scheduled for Spring 2018.

In general, attendees expressed preference for options that would include no or little height increase and for options that would allow the SCRF to close as soon as possible. One attendee expressed preference for options that did not change the footprint. Some attendees expressed preference to keep the original capacity or felt that none of the options was preferred. The rationale for the proposed capacity increase was established in the Minister-approved Amended Terms of Reference, based on current market demands for local and regional residual material disposal needs. The existing approval does not address the problem/opportunity statement and is therefore, not considered by Terrapure to be a viable option.





Table 4.1 Summary of Comments Received on the Six Options

Option	What do you like about this option?	What do you dislike about this option?
<b>Option 1: Reconfiguration</b>	<ul style="list-style-type: none"> <li>• Nothing (x5)</li> <li>• No height increase (x6)</li> <li>• Original footprint (x5)</li> <li>• Of all the options this would appear to be the best (x5)</li> <li>• Earliest closure (x1)</li> </ul>	<ul style="list-style-type: none"> <li>• Increases volume (x3)</li> <li>• The footprint expansion (x1)</li> </ul>
<b>Option 2: Footprint Expansion</b>	<ul style="list-style-type: none"> <li>• No height increase (x5)</li> <li>• Nothing (x7)</li> <li>• Neutral (x1)</li> </ul>	<ul style="list-style-type: none"> <li>• The footprint expansion (x4)</li> <li>• Increase volume (x2)</li> <li>• Neutral (x1)</li> <li>• Keeps industrial fill = open longer (x1)</li> </ul>
<b>Option 3: Height Increase</b>	<ul style="list-style-type: none"> <li>• Nothing (x8)</li> <li>• No change in footprint (x1)</li> </ul>	<ul style="list-style-type: none"> <li>• The height increase (x8)</li> <li>• Increase volume (x3)</li> <li>• Infringes on sight for neighbouring housing (x1)</li> <li>• Do not want it to be higher than the surrounding area (x1)</li> <li>• Keeps industrial fill = open longer (x1)</li> </ul>
<b>Option 4: Reconfiguration and Footprint Expansion</b>	<ul style="list-style-type: none"> <li>• Nothing (x7)</li> <li>• No height increase (x4)</li> </ul>	<ul style="list-style-type: none"> <li>• Volume increase too high (x4)</li> <li>• Footprint change (x3)</li> <li>• Nothing (x1)</li> </ul>
<b>Option 5: Reconfiguration and Height Increase</b>	<ul style="list-style-type: none"> <li>• Nothing (x8)</li> </ul>	<ul style="list-style-type: none"> <li>• Volume increase too high (x4)</li> <li>• Height increase (x7)</li> </ul>
<b>Option 6: Footprint Expansion and Height Increase</b>	<ul style="list-style-type: none"> <li>• Nothing (x8)</li> </ul>	<ul style="list-style-type: none"> <li>• Volume increase too high (x2)</li> <li>• Height Increase (x7)</li> <li>• Everything (x3)</li> <li>• Keeps industrial fill = open longer (x1)</li> </ul>



## 4.2 Natural Environment and Surrounding Community

At the "Natural Environment & Surrounding Community" station, attendees were asked to provide feedback on the natural environment and surrounding community and how they will be considered during the EA. A separate comment sheet was provided with the following questions:

1. Would you like to add to, remove, or change any of the presented evaluation criteria presented on the display boards and handout?
2. What natural environment features in the Study Area should be considered?
3. What is unique about Upper Stoney Creek?
4. From your perspective, what community features in the Study Area should be considered?
5. Do you have any additional comments on the Study Area?

Similarly, the Online Open House included comment forms with the same questions. Three attendees at the in-person open house provided written comments at this station and six comments were received on this topic during the Online Open House.

**Table 4.2** below summarizes the comments on the evaluation criteria, the natural environment and surrounding community and how these comments will be considered. One comment was received by email with a suggested revision to the evaluation criteria. Other comments received related to potential impacts that should be considered, including odour, height/visual impact, property values, recent population expansions, animals, groundwater, and surface water. The project team and technical experts will consider these comments during the evaluation of the six options.





Table 4.2 Summary of Comments Received on the Evaluation Criteria, Natural Environment and Surrounding Community

Summary of Comment Received	How Comment will be Considered
<p>Consider the large population expansion within the area (x3)</p> <p>Consideration of the sensitive land uses of the surrounding area because of rapid population growth (x1)</p>	<p>As part of evaluating the six options, we will assess their potential impact on the existing and future land uses, including planned and approved new development.</p>
<p>Consider the future impact of the Facility on animal populations. (x1)</p>	<p>As part of evaluating the six options, we will assess their potential impact on the existing and future terrestrial and aquatic ecosystems, including wildlife and fish.</p>
<p>How little the evaluation criteria deals with visual impacts (height)</p> <p>Consider the visual impacts on the landscape / Concern with additional height increase of some of the proposed options and the visibility from surrounding community viewpoints. (x5)</p>	<p>As part of evaluating the six options, we will assess visual impacts on existing views within 1.5 km of the facility.</p> <p>None of the evaluation criteria are weighted as more or less important. The alternatives will be compared using the "trade-off" method where advantages and disadvantages are used to identify preferences among the options. This is the methodology outlined in Section 7.1.1.2 of the Minister approved Terms of Reference.</p>
<p>Consider natural beauty of the escarpment (x1)</p>	<p>Comment noted.</p>
<p>How much will the project affect the future efforts to make Upper Stoney Creek more valuable and transit friendly? (x1)</p>	<p>As part of the evaluating the six options, we will assess the effect on traffic, approved/planned land uses, and the economic benefits to the City of Hamilton and local economy.</p> <p>Terrapure has provided over \$22 million to the City of Hamilton and the Heritage Green Community Trust over the history of the SCRF. We continue to look forward to providing funding to the City.</p>
<p>Consider the impact of odour permeating the surrounding area depending on the direction of the wind / Concern the smell on the surrounding community from the site (x2)</p>	<p>As part of the evaluating the six options, we will assess the effect of odour on-site and in the surrounding community. This includes historical and future model predictions of wind speed and direction.</p>



<p>Height of the landfill and length of time that it will take to close and cap the site are under-represented in the Evaluation criteria. These two factors should be at the top of the Evaluation Criteria and receive the largest share of the point structure when evaluating the 6 options. (x1)</p>	<p>The Land Use Work Plan includes the prediction and assessment of potential impacts of the alternative methods on viewpoints from the SCRF, utilizing visualization software and simulations.</p> <p>While closure timing is not included as a separate evaluation criteria, every criteria will be assessed in relation to timeframes of construction, operation, and closure/post-closure, as per the Minister Approved Amended Terms of Reference. Therefore, any potential effects during construction/operation would be considered to have a greater impact in those alternatives that have longer construction/operation durations.</p> <p>None of the evaluation criteria are weighted as more or less important. The alternatives will be compared using the "trade-off" method where advantages and disadvantages are used to identify preferences among the options. This is the methodology outlined in Section 7.1.1.2 of the Minister Approved Amended Terms of Reference.</p>
<p>Concern for impact on air quality (x1)</p>	<p>As part of the evaluating the six options, we will assess the effect on air quality on-site and surrounding community.</p>
<p>Evaluation criteria is comprehensive (x1)</p>	<p>Thank you for your comment.</p>
<p>Would like assurance that the MOECC guidelines for distances from the landfill are respected within the decision for the Site (x1)</p>	<p>The environmental assessment (EA) is being carried out according to the Minister Approved Amended Terms of Reference, the requirements of the <i>Environmental Assessment Act</i>, and O.Reg 232/98, which outlines design guidelines and considerations for property boundary setbacks and buffer zones.</p>
<p>Consider the assessment of the increase in roadway volumes as a result of the activities at the landfill site and assess truck impacts beyond the study area (x1)</p>	<p>As part of the evaluating the six options, we will assess the effect of traffic onsite and in the surrounding community.</p>



Consideration of closure time. None of the evaluation criteria currently pertains to site closure (x2)	While closure timing is not included as a separate evaluation criteria, every criteria will be assessed in relation to timeframes of construction, operation, and closure/post-closure, as per the Minister Approved Amended Terms of Reference. Therefore, any potential effects during construction/operation would be considered to have a greater impact in those alternatives that have longer construction/operation durations.
Consider expanding the Study Area to include all areas west of the site to the freeway since these residents travel along Mud Street to Hwy 20. and are subject to the views, noises, traffic, and odour of the site (x1)	As part of evaluating the six options, we used a 1.5km study area to establish the existing conditions for elements of the environment such as visual, noise, traffic, and odour. The study areas will be reviewed, and if necessary modified during the EA, including when the extent of potential environmental effects are better known.

### 4.3 Additional Comments

In addition to asking for comments and questions that related to the specific purpose of this Open House, attendees had the opportunity to provide any other comments and questions for consideration. **Table 4.3** below summarizes these additional comments received verbally and on comment sheets at the in-person Open House, and in comment forms during the Online Open House; as well as how Terrapure will consider these comments. Three comment forms were completed at the Public Open House and seven comments were received through the Online Open House.





Table 4.3 Summary of Additional Comments Received and They Will be Considered

Summary of Comment Received	How Comment will be Considered
Interested in the type and quantity of waste material to be accepted now and with the six options. (x1)	The SCRF is only permitted to receive industrial solid non-hazardous residual materials from operations like the local steel producers and infrastructure projects like the new James Street GO station and the McMaster Children's Hospital expansion. Through this Environmental Assessment, we are not seeking approval to change the type of waste we accept on-site.
Interested in where waste would be sent if this facility closes and the potential CO2 emissions and cost of transport. (x1)	<p>Thank you for your comment. Closure of the existing SCRF would create a significant gap in the company's services for long-standing customers within the H&amp;GTA. Historically, approximately 50 percent of the annual disposal capacity for residual material is generated by businesses and operations located within the City of Hamilton and 93 percent within the H&amp;GTA.</p> <p>The additional trucking required to take the industrial residual material has the potential to increase GHG emissions for longer trips to other waste facilities by approximately 23,500 to 64,000 tonnes per year.</p> <p>The requirement to ship to other locations would also create a financial burden to Ontario industries, ranging from about \$28 million to \$100 million, in present value terms over the course of the proposed additional residual capacity lifespan of the SCRF under the proposed undertaking.</p> <p>More information on these details can be found in <a href="#">Supporting Document #1: Terrapure SCRF – Business Case Analysis</a>.</p>



<p>Request for the site to be closed as soon as possible / Stick with the originally approved footprint and capacity, and close the landfill when it reaches the designed capacity. (x3)</p> <p>Move the SCRF somewhere else / Facility belongs somewhere else (x3)</p>	<p>Terrapure is a privately owned and operated company, conducting business in the Province of Ontario. As such, the question as to whether there is a need for the services that Terrapure provides is largely based on business decisions.</p> <p>As part of the Environmental Assessment, Terrapure considered other options including establishing a new facility elsewhere in Hamilton or to export waste to other facilities. After assessing these options, it was determined that non would provide local industry with a solution that would be affordable or realistic.</p> <p>There is also an economic opportunity associated with the ability of the existing SCRF to accept additional post-diversion solid, nonhazardous industrial residual material to allow it to continue to support local industry and growth of the local economy. This economic opportunity was determined through an internal business case for increasing the disposal capacity at the existing SCRF.</p>
<p>Concern regarding the possibility of additional expansions in the future. (x1)</p>	<p>Terrapure is seeking approval to increase the capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup>.</p> <p>Three of the proposed options would replace industrial fill with residual material, allowing us to reach the ultimate capacity at the site sooner because the market rate for residual material is better and more consistent than industrial fill.</p>
<p>Concern about acceptance of hazardous material. (x1)</p>	<p>The SCRF does not receive hazardous materials; we only accept solid, non-hazardous residual material from industrial operations like the local steel producers and infrastructure projects like the James Street GO Station.</p> <p>We have recently released a video which tours the Stoney Creek Regional Facility and speaks to what kind of materials are accepted at the site. It can be found on our homepage at <a href="http://www.terrasurestoneycreek.com">www.terrasurestoneycreek.com</a></p>
<p>Provide more specifics to claims of \$28 million/yr in total economic activity and \$18 million/yr in GDP. Need to be specified and quantified. (x1)</p>	<p>Thank you for your comment. The details regarding the economic claims of the SCRF are detailed in Appendix A – Economic Impacts of the SCRF of the <a href="#">Supporting Document #1: Purpose and Description of and Rationale for the Undertaking</a>.</p>





<p>More of the testing and monitoring should be done by third parties. (x1)</p>	<p>Thank you for your comment. Terrapure employs a mix of in-house and 3<sup>rd</sup> party monitoring of the operations of the SCRF. Each year, Terrapure develops an Annual Report outlining how we are meeting our Environmental Compliance Approvals. We issue this report to the Ministry of the Environment and Climate Change for review. It is also available to the public and can be found on our project website at <a href="http://www.terrapurestoneycreek.com/document-library">www.terrapurestoneycreek.com/document-library</a></p>
<p>Concern with animals (mice and rats) in near neighbourhood as a result of the facility.(x2)</p>	<p>Through this Environmental Assessment we are not seeking approval to change the type of waste we accept on-site. We will continue to accept non-hazardous residual materials, including construction and demolition materials. We are not permitted to receive any compost or garbage that attracts wildlife or rodents.</p>
<p>Make a golf course on the space to the west. (x1)</p>	<p>Thank you for your comment. Terrapure consulted with the community, the City of Hamilton, and the Ministry of the Environment and Climate Change as part of the closure plan for the landfill to the west of the current operations. It was determined collectively that the site be turned into a Passive Park.</p> <p>Terrapure has initiated the process of determining a pre-consultation plan with the community regarding closure of the site and post-closure land use. The closure plan with direct input from the community will ensure that when the site is closed it will benefit the community and the surrounding environment.</p>
<p>Interest in learning more about the claims for economic benefits and GDP as a result of the site. (x1)</p>	<p>Thank you for your interest in learning more about the economic benefits of the SCRF. Information regarding Economic Benefits can be found in Appendix A – Economic Impacts of the SCRF of the <a href="#">Supporting Document #1: Purpose and Description of and Rationale for the Undertaking</a>.</p>
<p>Ammonia plume beneath residential development to the North of the SRCF. Apparently the developer needed to place clay beneath basements of residential homes during construction. A study was done to support this. (x1)</p>	<p>In 2010, MTE Consultants Inc. conducted a Landfill Impact Assessment (LIA), for the Empire lands to the north of the Stoney Creek Regional Facility.</p> <p>It was determined that as a mitigation measure for the elevated ammonia levels in the groundwater as a result of the Closed Landfill (to the west of the SCRF, across First Road West), a 1m of clay around basement foundations would be applied from the Operating Landfill, as a conservative measure.</p>



<p>Keep the terms consistent with terms used in Ontario Reg. 347. Residual material is 'non-hazardous solid industrial waste' and this term provides the public with confirmation that it is, in fact, a waste material. (x1)</p>	<p>Thank you for your comment. Terrapure uses residual material and non-hazardous solid industrial waste interchangeably.</p>
<p>Concerns with current view of the SCRF. (x4)</p>	<p>Terrapure takes pride in ensuring that we operate in a manner that is respectful of our neighbours. During the Terms of Reference consultation phase, Terrapure listened to input from members of our local community, including the members of the CLC and local councillors, regarding the current visibility of the site from surrounding vantage points. In response, we are presently implementing additional visual screening measures at the site. Berms have been heightened to increase screening around site access points and fencing is currently being installed on the west side of the site.</p> <p>In addition, as part of the SCRF EA we will be carrying out a visual assessment, where view-sheds will be analyzed and appropriate screening measures determined.</p>
<p>Concerns with current odour of the SCRF. (x2)</p>	<p>The Stoney Creek Regional Facility is only permitted to receive non-hazardous residual material from industrial, commercial and institutional sources. We are not permitted to receive any compost or garbage that decomposes and has the potential to cause odours. Often, when we receive inquiries related to odour, it is usually determined to be associated with other activities happening nearby.</p> <p>It is however, a priority for Terrapure to operate in a way that is respectful and considerate of our neighbours. In the future, if you experience a similar smell or have any questions regarding the operations of the site, please let us know as soon as possible so that we can identify and correct the situation if required. You can reach our community response line at 1-905-651-0305. You can also report an odour to the Ministry of the Environment and Climate Change at 1-905-521-7650.</p>
<p>Concerns with current truck traffic (i.e. noise, messy). (x2)</p>	<p>Presently, the site is permitted to receive up to 250 trucks per day; however, the average daily number received is about 70-80 trucks – well below the permitted limit.</p>

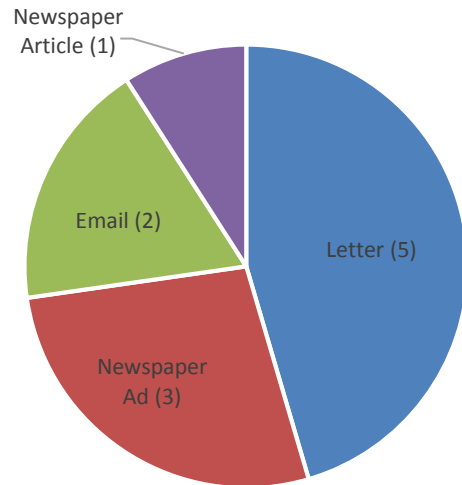


<p>Please review Table 4.1 Comparison of Alternatives in the Conceptual Design Report as I think there may be an error. Under Height Relative to Surrounding Area for Green Mountain and First Road it shows 192 MASL whereas I believe the surrounding land in those areas are 201 MASL and 204 MASL respectively, not 192 MASL shown. 192 MASL is the elevation for the bottom of the original quarry. (x1)</p>	<p>The existing road elevation at the intersection of Green Mountain Road West and First Road West is approximately 192 mASL.</p>
<p>Consider making the closed landfill blend in and not be a future Randle Reef.</p>	<p>Terrapure has initiated the process of determining a pre-consultation plan with the community regarding closure of the site and post-closure land use. The closure plan with direct input from the community will ensure that when the site is closed it will benefit the community and the surrounding environment.</p>

#### 4.4 Comments on the Open House and Consultation

At the "EA Process & Consultation Opportunities" station, attendees were asked to provide feedback on how they would like to be consulted during the Environmental Assessment process and on their experience at this open house. Attendees were provided with a questionnaire to provide feedback on the Open House and suggestions for how Terrapure can improve the next event. Eight attendees completed questionnaires at the Public Open House and four submitted comments online.

When asked how they heard about the event, attendees noted that they heard about the event by letters received from Terrapure, newspaper advertisements, emails from Terrapure, and the newspaper article.



In general, the feedback received about the event was positive. **Table 4.4** below summarizes the feedback collected from participants on their experience at the Open House and of the Online Open House. Other comments and suggestions provided were:

- Suggest presentation with Q&A period, so you can hear what other peoples questions are
- Informative
- Questions were well answered
- Online Open House was excellent, but I question how many community members will be engaged enough to take the time to complete it.



- Good idea.
- Please give us an artist's depiction of the site when it is finished and capped. Make it realistic. Make it public. Make it deal with the current and future height of the site. This online presentation uses green to show the site but glimpses between your concealment screens look black and are getting quite high.

Table 4.4 Summary of Feedback on the Public Open House

Questions Asked On a scale of 1 to 5 (0 - Strongly Disagree; 5 – Strongly Agree)	1	2	3	4	5
1. The date and time of the Open House suited my schedule.		1			7
2. The location of the Open House was convenient for me.				1	7
3. I enjoyed the format of the event and found the stations easy to follow.		1			7
4. The purpose of the Open House was clear.					8
5. The information presented was clear and relevant.			1	1	5
6. Representatives from Terrapure and GHD were approachable and able to answer my questions.			1		7
7. After attending the Open House, I feel more informed about the Stoney Creek Regional Facility and Environmental Assessment process.				1	7



# **APPENDIX A**

## **Project-Specific Contact Database**



## Project-Specific Contact Database

Agencies, Aboriginal communities, and stakeholder groups on the project-specific contact database include the following:

- City of Hamilton Mayor, Councillors, and relevant staff
- Hamilton Public Health and Medical Officer of Health
- Hamilton-Wentworth Catholic District School Board
- Hamilton-Wentworth District School Board
- Hamilton Fire Department
- Hamilton Conservation Authority
- Ministry of Agriculture, Food and Rural Affairs
- Ministry of Economic Development, Employment and Infrastructure
- Ministry of the Environment and Climate Change
- Ministry of Municipal Affairs and Housing
- Ministry of Natural Resources and Forestry
- Ministry of Tourism, Culture and Sport
- Ministry of Transportation
- Ontario Provincial Police
- Métis Nation of Ontario (Head Office and Clear Waters Métis Council)
- Six Nations of the Grand River First Nation
- Mississaugas of the New Credit First Nation
- Haudenosaunee Confederacy Chiefs Council
- Haudenosaunee Development Institute
- Members of the Community Liaison Committee for the existing Stoney Creek Regional Facility
- Land owners immediately adjacent to the facility
- Project Notification Subscribers



# **APPENDIX B**

## **Notice of EA Public Open House #1**



# You Are Invited!

## Open House on Proposed Changes to the Stoney Creek Regional Facility

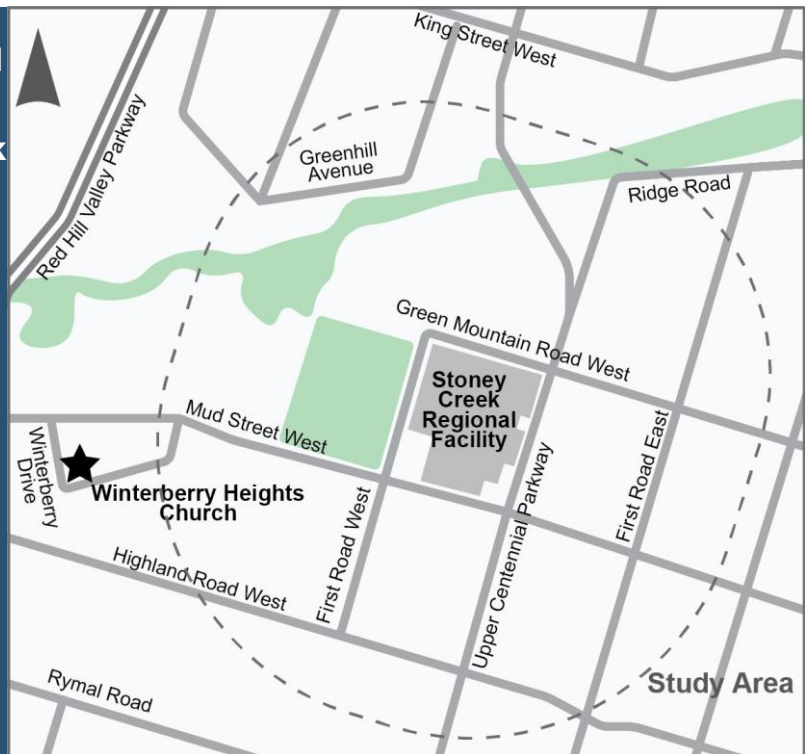
**December 7, 2017 4:00 - 8:00 PM**

**Winterberry Heights Church  
300 Winterberry Drive, Stoney Creek**

Can't attend in person? Participate in our Online  
Open House December 7 to 21 at  
[terraturestoneycreek.com](http://terraturestoneycreek.com)

This is an opportunity for you to ...

- Give feedback on options to add capacity at the Stoney Creek Regional Facility
- Review and provide input on how Terrapure will consider the natural environment and surrounding community during the Environmental Assessment



Terrapure Environmental (Terrapure) is initiating a study under the *Environmental Assessment Act* to assess the various ways of increasing the capacity for residual materials at the Stoney Creek Regional Facility, located at 65 Green Mountain Road West, Stoney Creek, Ontario. The proposed capacity increase would be used by Terrapure to continue to provide disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.

This is the first of several open houses that will be held during the Environmental Assessment.

The Environmental Assessment is being conducted in accordance with the Amended Terms of Reference (approved by the Minister of the Environment and Climate Change on November 9, 2017) and the *Environmental Assessment Act*.

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the MOECC for the purpose of transparency and consultation. The information is collected under the authority of the *EA Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the MOECC's Freedom of Information and Privacy Coordinator at (416) 327-1434.

**Alternative Formats of this Notice are Available upon Request**

Questions? Contact Us!

Contact: Kim Bailey, Terrapure Environmental

Website: [terraturestoneycreek.com](http://terraturestoneycreek.com)

Address: 65 Green Mountain Road West  
Stoney Creek, ON L8J 1X5

Email: [info@terraturestoneycreek.com](mailto:info@terraturestoneycreek.com)

Phone: 1-844-898-2380 Fax: 905-549-4515





[Redacted]

[Redacted]

**From:** Bailey, Kim

**Sent:** Friday, November 17, 2017 8:20 AM

[Redacted]

**Subject:** SCRF EA Terms of Reference Approval

Dear CLC members,

We wanted to give you a heads up regarding the status of the Terms of Reference (ToR) for the Environmental Assessment (EA) to add disposal capacity to the Stoney Creek Regional Facility.

The Ministry advised us earlier this week that the Terms of Reference was approved as submitted, with only one small addition that asks us to examine opportunities for diversion of recyclable materials at the site. This was something we had already committed in the ToR to examine in the EA and language was added to provide further direction. You can see the final approved ToR on the project website here: <http://www.terrapurestoneycreek.com/document-library/>

In light of this, we will be running the attached Notice of EA Commencement ad tomorrow (Friday) and Saturday in the Spectator, as well as in next week's Stoney Creek News. This will advise the public that the ToR has been approved and that the EA process will now begin.

The next stage in the process is the actual and formal Environmental Assessment work which will be guided by the approved Terms of Reference. This is where the technical analysis is carried out to demonstrate that the proposed changes to the SCRF will have no adverse environmental, social and health impacts on the community.

We are looking to arrange the first EA open house, likely on December 7<sup>th</sup>. This will be confirmed and announced with further details next week. As we have done previously, we would like to offer the CLC an opportunity to attend a special workshop in advance of the first open house – if you so choose. Should Dec. 7 be confirmed for the open house, we would offer this special workshop on either Tuesday, December 5 or Wednesday, December 6, in the evening at the SCRF office.

While we do have a regular CLC meeting scheduled for December 4, you'll recall the EA falls outside the scope of the CLC's regular mandate and therefore we must keep the EA content separate from our regular CLC meeting. That said, if everyone prefers and is able to make it work, we could offer the special workshop immediately prior to the December 4 meeting – at 4:30 or 5 p.m., followed by the regular meeting at 6:30 p.m.

Of course, if you would prefer to simply attend the public open house, that is fine too.

Please consider and we'll be in touch next week to confirm details.

Any questions in the meantime, don't hesitate to ask Lorenzo or me.

Regards,

*Sent on behalf of...*

**Greg Jones**

Managing Director, Communications & Public Affairs

Office: 905.315.2229 Cell: 905.630.3991

Fax: 905.315.2209

Terrapure Environmental | National Corporate Office

1100 Burloak Drive, Suite 500

Burlington, ON L7L 6B2

Visit our website at [terratureenv.com](http://terratureenv.com) and follow us on social media:



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This e-mail has been scanned for viruses



# You Are Invited!

Open House on Proposed Changes to the Stoney Creek Regional Facility

December 7, 2017 4:00 - 8:00 PM

Winterberry Heights Church

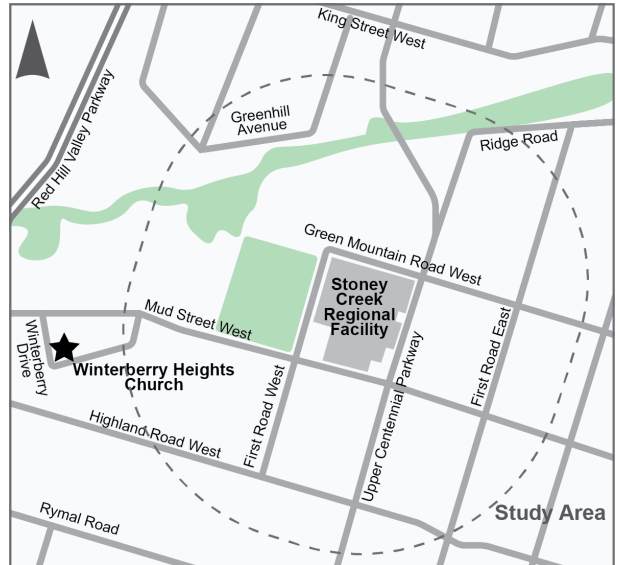
300 Winterberry Drive, Stoney Creek

Can't attend in person? Participate in our Online Open House December 7 to 21 at [terrapurestoneycreek.com](http://terrapurestoneycreek.com)

This is an opportunity for you to ...

- Give feedback on options to add capacity at the Stoney Creek Regional Facility
- Review and provide input on how Terrapure will consider the natural environment and surrounding community during the Environmental Assessment

**Alternative Formats of this Notice are Available Upon Request**





# What is Terrapure Proposing?

Terrapure is initiating a study to assess the various ways of increasing capacity for residual materials at the Stoney Creek Regional Facility.

The proposed capacity increase would be used by Terrapure to continue to provide disposal capacity for industrial residual material generated within Hamilton and the Greater Toronto Area.

This is the first of several open houses that will be held during this Environmental Assessment.

The environmental assessment will be carried out according to the approved Amended Terms of Reference (approved by the Minister of the Environment and Climate Change on November 9, 2017) and the *Environmental Assessment Act*.



## Questions? Contact Us!

**Contact:** Kim Bailey, Terrapure Environmental

**Website:** [terraturestoneycreek.com](http://terraturestoneycreek.com)

**Address:** 65 Green Mountain Road West  
Stoney Creek, ON L8J 1X5

**Email:** [info@terraturestoneycreek.com](mailto:info@terraturestoneycreek.com)

**Phone:** 1-844-898-2380

**Fax:** 905-549-4515

All personal information included in a submission – such as name, address, telephone number and property location – is collected, maintained and disclosed by the Ministry of Environment and Climate Change (MOECC) for the purpose of transparency and consultation. The information is collected under the authority of the *EA Act* or is collected and maintained for the purpose of creating a record that is available to the general public as described in s.37 of the *Freedom of Information and Protection of Privacy Act*. Personal information you submit will become part of a public record that is available to the general public unless you request that your personal information remain confidential. For more information, please contact the MOECC's Freedom of Information and Privacy Coordinator at (416) 327-1434.



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**Alternative Formats of this Notice are  
Available Upon Request**

Stoney Creek Regional Facility  
65 Green Mountain Rd W.  
Hamilton, Ontario  
L8J 1X5

Property Owner  
Address  
Address2  
City province Postal



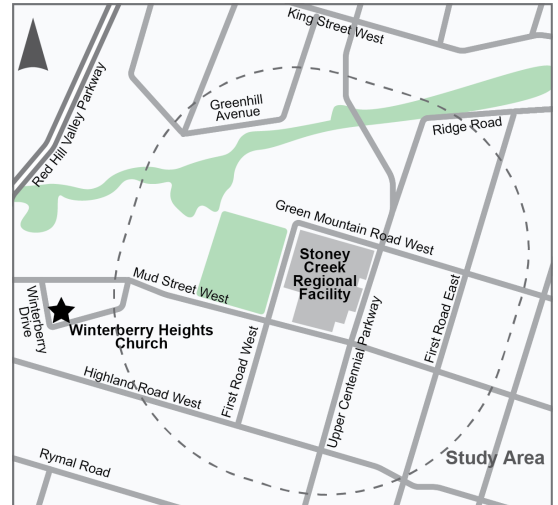
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November 23, 2017

Reference No. 11102771

Addressee Name  
Address  
Address  
Address

Dear Sir/Madam \_\_\_\_\_,  
Property Owner of \_\_\_\_\_

**Re: Notice of EA Public Open House #1  
Stoney Creek Regional Facility Environmental Assessment  
Terrapure Environmental**

As a follow up to our November 17, 2017 letter to you, please find attached an invitation to an Open House being held on **December 7, 2017** from **4:00 pm – 8:00 pm** at the Winterberry Heights Church, **300 Winterberry Drive, Stoney Creek.**

If you have any questions on the preceding information or would like to set up a meeting please contact me directly by phone at **905-429-5040** or **647-525-9798** or email at **blair.shoniker@ghd.com**

Sincerely,

Kind Regards,  
GHD

Blair Shoniker, MA, RPP  
Project Manager

On behalf of Terrapure Environmental  
[info@terrapurestoneycreek.com](mailto:info@terrapurestoneycreek.com)  
[www.terrapurestoneycreek.com](http://www.terrapurestoneycreek.com)  
1-844-898-2380





# **APPENDIX C**

## **EA Public Open House #1**

### **Consultation Material**



# Welcome

## Terrapure Stoney Creek Regional Facility Environmental Assessment

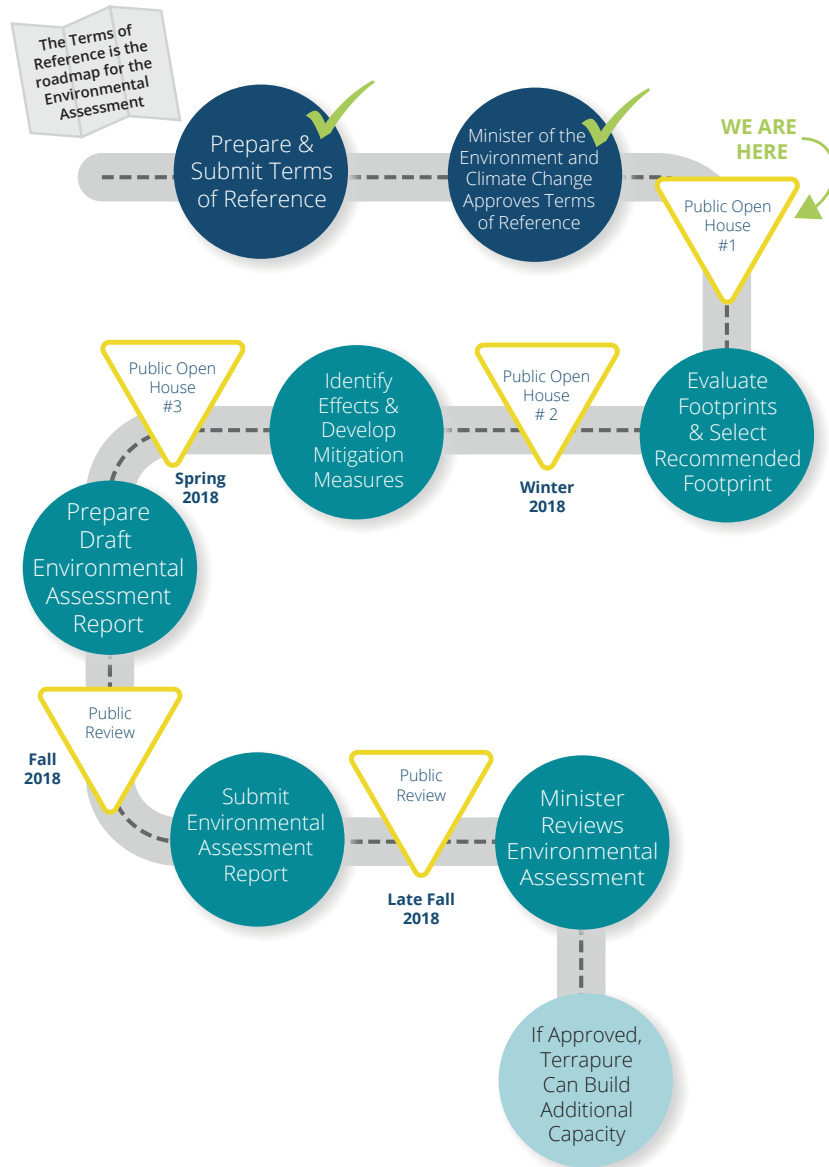
### Public Open House

Thursday, December 7, 2017





## Environmental Assessment Road Map



### The Purpose of this Open House is to Obtain Your Feedback on...

- The six options
- The criteria that will be used to evaluate the options
- The natural environment and community features surrounding the Stoney Creek Regional Facility
- The Environmental Assessment study area



**About  
Terrapure and  
the Stoney  
Creek Regional  
Facility**





# About Terrapure Environmental



Terrapure Environmental is a leading Canadian provider of innovative, cost-effective environmental services and recycling solutions that help address industry's most complex environmental challenges.



Headquartered in Burlington, Ontario, Terrapure has an exemplary record and unwavering focus on health, safety and environmental excellence.



The company provides services that minimize waste and maximize the recovery or recycling of valuable industrial by-products through a coast-to-coast facility network.



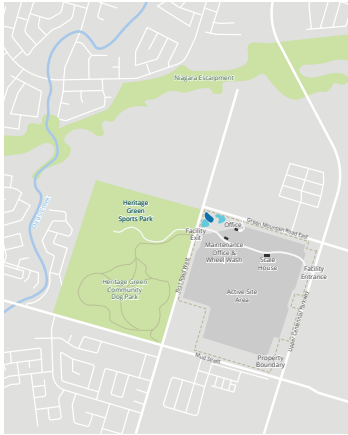
The current Stoney Creek Regional Facility site generates the following economic benefits for the Hamilton area:

- \$28 million per year in total economic activity
- \$18 million per year in value-added (GDP)
- 51 local jobs created, earning a total of \$2.5 million per year in wages
- \$2 million per year in local taxes, royalties and fees





# Terrapure Stoney Creek Regional Facility



- The Stoney Creek Regional Facility is located at 65 Green Mountain Road West in Hamilton
- It has been in operations since 1996
- 50% of materials received comes from customers in the City of Hamilton
- The site is engineered with a state of the art<sup>1</sup> double-liner system to ensure environmental protection
- In April 2017, a Closure Plan Advisory Panel was formed and includes the City of Hamilton and the Hamilton Conservation Authority

## Fast Facts About the SCRF

**478,655t**  
of materials received  
in 2016

SCRF is permitted to receive 750,000 tonnes of material/year

**3,106t**   
max materials received  
in one day

SCRF is permitted to receive 8,000 tonnes/day maximum

**70-80**   
trucks  
of materials received  
every day

SCRF is permitted to receive 250 trucks/day maximum

## Materials Accepted

Permitted Materials	Non-permitted Materials	Types of Waste
<ul style="list-style-type: none"> <li>✓ Solid (not liquid) material</li> <li>✓ Non-hazardous material</li> <li>✓ From industrial, commercial and institutional sources</li> </ul>	<ul style="list-style-type: none"> <li>✗ Household waste</li> <li>✗ Putrescible (decomposing) waste</li> <li>✗ Generated outside of Ontario</li> </ul>	<ul style="list-style-type: none"> <li>• Steel slag and BOF oxides</li> <li>• Contaminated soil</li> <li>• Demolition waste</li> <li>• Other mixed residuals (industrial and commercial)</li> </ul>



## Investment in Stoney Creek

Over its history, Terrapure has provided over **\$23 million** to the City of Hamilton and the Heritage Green Community Trust.

For every tonne of residual material received at the facility, \$1 goes to the City of Hamilton Royalty Program and \$1 goes to the Heritage Green Community Trust.

To apply for a grant visit [www.heritage-green.org](http://www.heritage-green.org)



*"On behalf of our schools and students, I would like to thank Terrapure for your generous support. The students involved in the Bishop Ryan Celt-X Robotics team as well as our elementary students who participated in the Mad Science "Love Your Lungs" Project have benefitted a great deal from the grants you have provided."*  
 Patrick Daily, HWCSB Board Chair (May, 2017)

- Since 2012, the Heritage Green Community Trust has awarded 41 scholarships totalling **\$102,500** to area students
- From 2001-2015, Terrapure provided **\$5 million** in funding to support schools, sports programs, recreational facilities and parks, and events
- Direct annual support to various community causes and events including the United Way, Tim Horton's Camp Day and Camp Trillium

# Proposed Changes & Options





## Proposed Changes to the Facility

Terrapure is seeking approval to increase the capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup>.

Currently, the SCRF is permitted to receive both industrial fill and residual material. Terrapure only accepts material that cannot otherwise be reasonably diverted.

Residual material is solid, non-hazardous material from commercial, industrial and institutional sectors.

Industrial fill is excess soil generated from construction activities, such as the redevelopment of brownfield sites and infrastructure renewal projects.

Three of the options would replace industrial fill with residual material, allowing us to reach the ultimate capacity at the site sooner because the market rate for residual material is better and more consistent than industrial fill.

## Current Approved Footprint

The currently approved footprint is included as part of the Environmental Assessment to represent what would happen if none of the six options were carried out.



Figure not to scale



- Current approved capacity is 6.32 million m<sup>3</sup> of residual material and 2 million m<sup>3</sup> of industrial fill
- Height (at peak) of 218.5 m Footprint of 59 hectares
- 30 m to the north and west sides of the SCRF property boundary
- Approximately 60 m to the south and east of the SCRF property boundary
- The Heritage Green Community Trust would only continue to be funded for 2 to 4 more years



# The Options

## Option 1: Reconfiguration

*Return to the 1996 approved landfill footprint*

Current Approved Footprint



Option 1



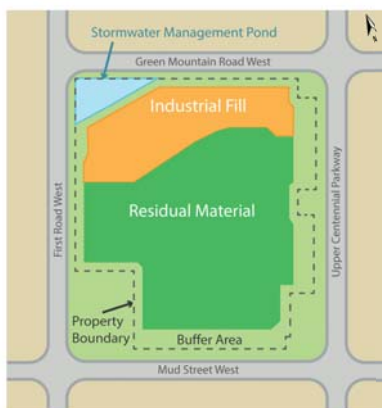
### What does this mean?

- 2.5 million m<sup>3</sup> increase in residual material capacity
- No height increase
- No change in footprint

## Option 2: Footprint Expansion

*Expand footprint into existing buffer area*

Current Approved Footprint



Option 2



### What does this mean?

- 1.3 million m<sup>3</sup> increase in residual material capacity
- No height increase
- Expand residual material area footprint, maintain minimum 30 m to SCRF property boundary



# The Options

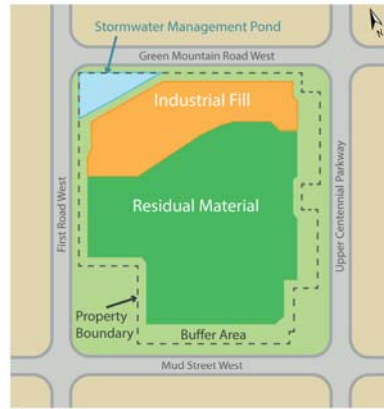
## Option 3: Height Increase

*Increase height within existing footprint*

Current Approved Footprint



Option 3



### What does this mean?

- 3.68 million m<sup>3</sup> increase in residual material capacity
- Height increase of 12 m
- No change in footprint

## Option 4: Reconfiguration and Footprint Expansion

*Replace industrial fill with residual material and expand footprint into existing buffer area*

Current Approved Footprint



Option 4



### What does this mean?

- 3.5 million m<sup>3</sup> increase residual material capacity
- No height increase
- Expand residual material area, maintain a 30 m minimum to the SCRF property boundary



# The Options

## Option 5: Reconfiguration and Height Increase

*Replace industrial fill with residual material and increase height*

Current Approved Footprint



Figure not to scale

Option 5



Figure not to scale

### What does this mean?

- 3.68 million m<sup>3</sup> increase in residual material capacity
- Height increase of 2.5 m
- Maintain current buffers

## Option 6: Footprint Expansion and Height Increase

*Expand footprint and increase height*

Current Approved Footprint



Figure not to scale

Option 6



Figure not to scale

### What does this mean?

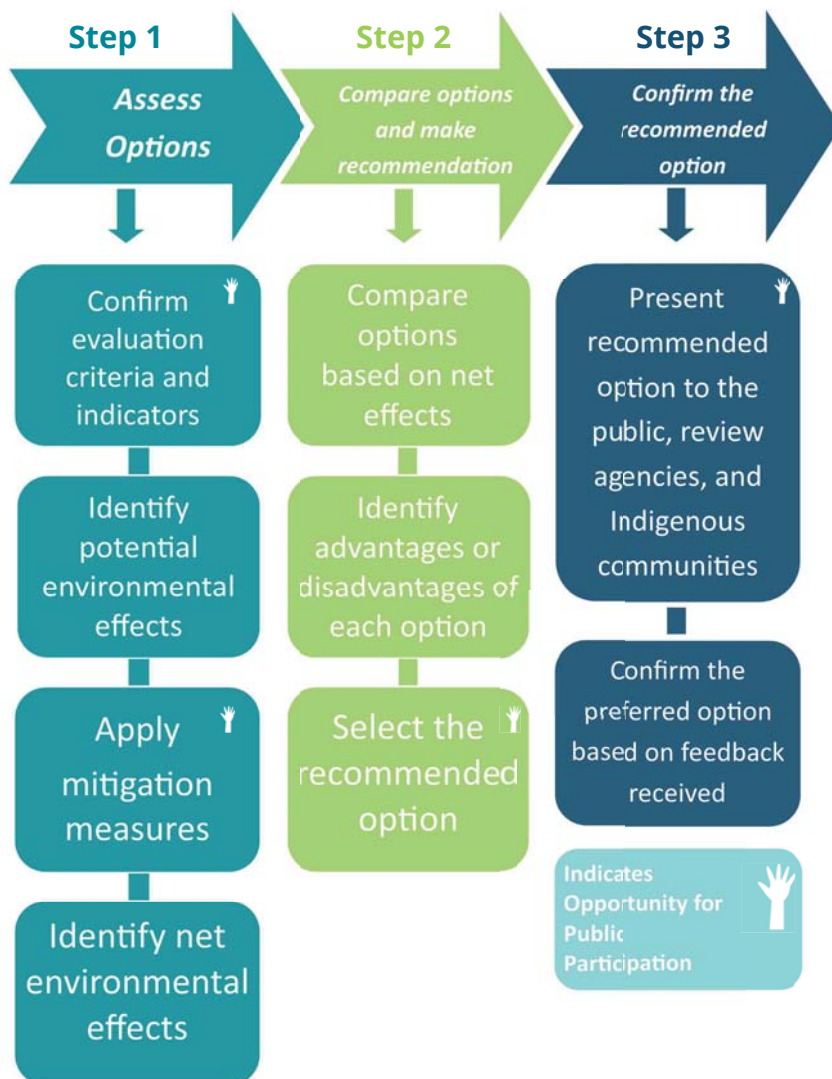
- 3.68 million m<sup>3</sup> increase in residual material capacity
- Height increase of 8 m
- Expand residual material area, maintain a 30 m minimum to SCRF property boundary



## Choosing the Preferred Option

The assessment will consider effects during construction, operation, and closure of the Stoney Creek Regional Facility capacity increase.

The options will be assessed and evaluated using a three step methodology:



### Onsite Diversion

Once a preferred option has been identified, Terrapure will examine and evaluate the feasibility and viability of implementing an onsite diversion program. This will include the consideration and assessment of a reasonable number of ways in which to divert the types of waste materials received at the site.

The assessment of an onsite diversion program will be carried out in accordance with best management practices, in consideration of new and emerging technologies, and in recognition of the goals and expectations set forth in the Waste Free Ontario Act.

### Climate Change Considerations

- In Step 2, Terrapure will consider climate change adaptation and mitigation
- This includes identifying historical climate/meteorological trends and the potential for extreme weather events
- Examples include power outages, physical damage, stormwater management and reduced access to the site



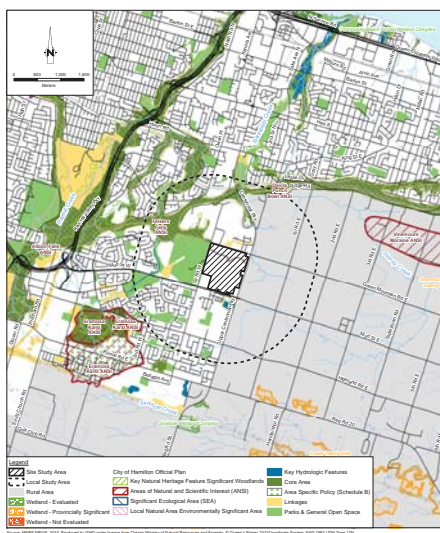
# **Natural Environment & Surrounding Community**





## Existing Natural Environment Features Around the SCRF

As part of the Environmental Assessment, we will evaluate the potential effects of the options on the existing natural environment and develop appropriate mitigation measures



- There are no Significant Ecological Areas (SEAs) or Provincially Significant Wetlands (PSWs) identified within the site or Local Study Areas, and no ANSIs within the site Study Area.
- The footprint of the entire site Study Area has been previously developed and as a result wildlife habitat within the site Study Area is very limited.
- Stormwater is tested and discharged to a roadside swale on the west side or to the leachate pond, which flows to the City of Hamilton sanitary sewer
- A double-liner system and extensive leachate and groundwater collection systems are in place
- Wind direction, wind speed, temperature and weather are monitored
- Noise is less than road traffic on Upper Centennial Parkway
- No landfill gas collection system is needed

## Considering the Natural Environment During the Environmental Assessment



### Terrestrial and Aquatic

- Effect on fish in local streams and their habitat
- Effect on wildlife in the area
- Effect on vegetation and trees



### Geology and Hydrogeology

- Effect on groundwater flow and quality



### Atmospheric

- Effect on air quality, odour and noise on off-site locations such as residences, businesses and schools (including the new proposed elementary school)



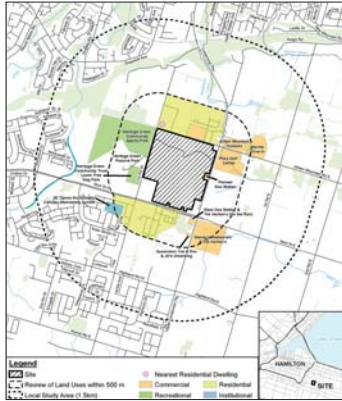
### Surface Water

- Effect on drainage flow in the area
- Effect on local streams



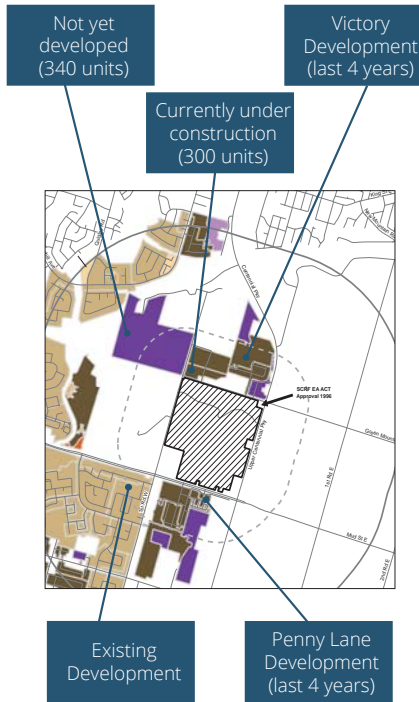
## The Community Surrounding the Stoney Creek Regional Facility

### Existing Land Uses



- A future school may be developed within the residential area north west of First Road West and Green Mountain Road West
- Nearest residential dwelling (currently under construction) is approximately 35 m away from the property boundary
- Approximately 1,000 dwellings within 500m from the property boundary

### Historical Development in Upper Stoney Creek



## Considering the Surrounding Community During the Environmental Assessment



### Land Use

- Effect on existing land uses such as residences, businesses, parks and schools
- Effect on views from surrounding existing and future residences



### Transportation

- Effect on existing traffic around the SCRF



### Economic

- Effect on approved/planned land uses, such as new residential developments
- Economic benefit to the City of Hamilton and local community



### Archaeology & Built Heritage

- Effect on known or potentially significant archaeological resources
- Effect on built heritage resources and cultural landscapes



### Health

- Effect on air quality, leachate, groundwater and surface water on human health



# **Environmental Assessment Process**



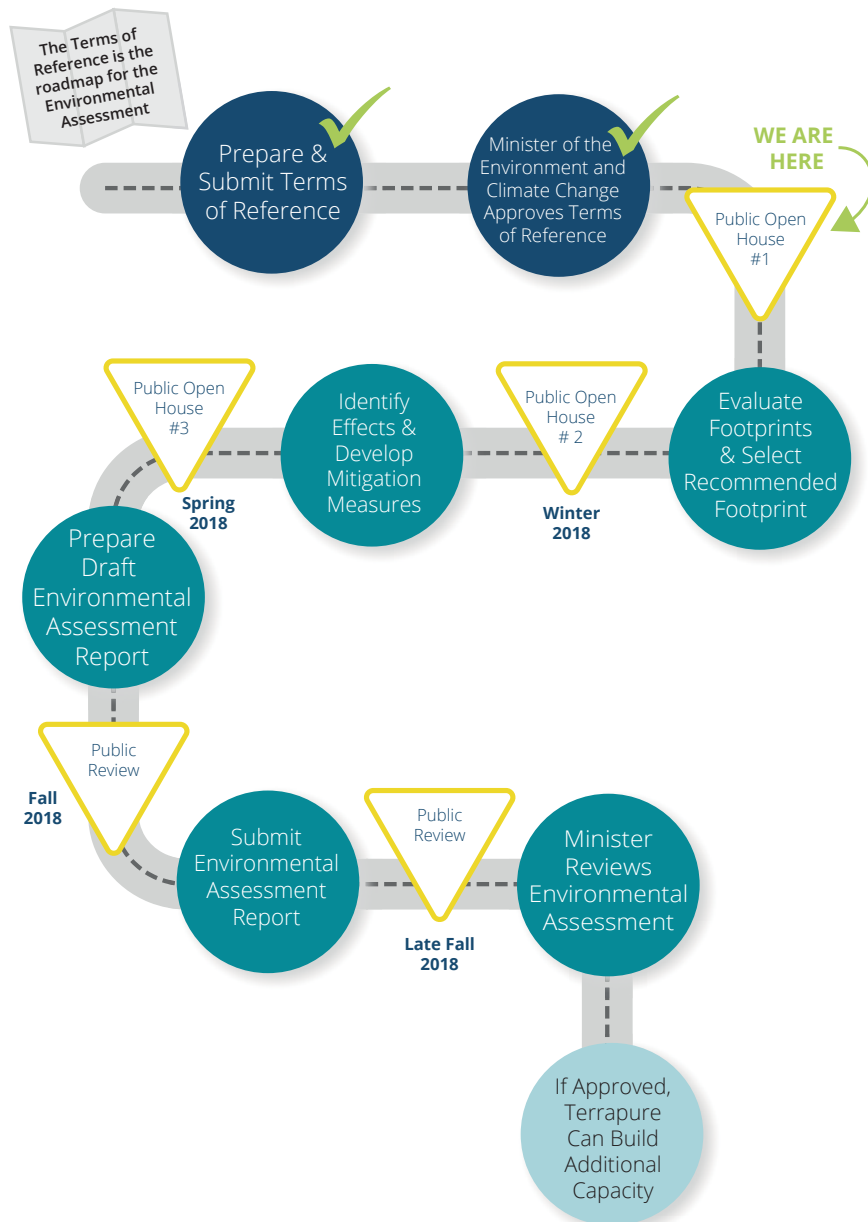
## Overview of the Environmental Assessment Process

An Environmental Assessment (EA) is a study that assesses the potential environmental effects (positive or negative) of a proposal.

Key components of an EA include:

- Consultation with government agencies and the public
- Consideration and evaluation of alternatives
- The management of potential environmental effects

Conducting an EA promotes good environmental planning before decisions are made about moving forward with a proposal.





## Proposed Consultation Methods for the EA



### Stakeholder Interviews

We are conducting interviews with interested/potentially affected stakeholders to hear their perspectives



### Individual Meetings

Meetings between the project team and stakeholders are available



### Website

Visit the project website at:  
[terrapurestoneycreek.com](http://terrapurestoneycreek.com)



### Toll-Free Phone Number

A toll free phone line is available at  
**1 844-898-2380**



### Notices and Mail-outs

Notices will be mailed and advertised at key project milestones



### Open Houses

Open Houses are held for in depth project discussions

**How else should we consult with you?  
Fill out a comment sheet with your contact  
information to stay informed about the project.**

<b>Public Stakeholders</b>	Includes adjacent property owners, area residents and businesses, beneficiaries of Terrapure funding and other non-government organizations.
<b>City of Hamilton</b>	Department staff and elected officials from the City are key stakeholders.
<b>Community Liaison Committee (CLC)</b>	The CLC is composed of community representatives, elected officials, MOECC district staff and Terrapure representatives.
<b>Indigenous Communities</b>	Includes the Six Nations of the Grand River, the Mississaugas of the New Credit, the Haudenosaunee Confederacy and the Métis.
<b>Review Agencies</b>	The Ministry of the Environment and Climate Change (MOECC) and other Municipal, Provincial and Federal agencies.

# What's Going On at the Stoney Creek Regional Facility?



## Terrapure Pollinator Paradise Project



Pollinators such as bees and butterflies are essential for agriculture and wild ecosystems. Yet, their populations are in rapid decline due to loss of habitat and food sources, disease and pesticides.

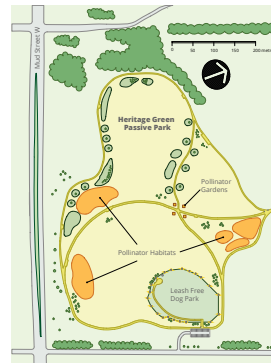


Terrapure, in partnership with Environment Hamilton and Hamilton Naturalists' Club, is helping address this critical issue.



We are creating pollinator friendly gardens of milkweed and wildflowers at the Heritage Green Passive Park (a closed landfill).

Gardens provide an important and much-needed habitat to attract pollinators.



The goal is to create a "pollinator highway," an uninterrupted haven of native plants that will provide food and shelter for pollinators across Hamilton.

### For More Information...



Visit our Website  
[terraturepollinatorparadise.com](http://terraturepollinatorparadise.com)



Follow us on Instagram  
[@pollinator\\_paradise\\_project](https://www.instagram.com/pollinator_paradise_project)



## Ongoing Activities at the Facility

### Additional Visual Mitigation

During the Terms of Reference we heard from community members that the visual landscape of the facility could be improved.

In response, we are adding visual screening measures at the site including heightened berm around site access points and fencing to the west side.



Green Mountain Road Looking South



Green Mountain Road and Upper Centennia Parkway



Green Mountain Road Looking East

### Ongoing Construction

As part of the existing site approvals, we are adding a new section of the liner. Construction of the new liner section is expected to be completed by late fall 2017.





# Terrapure Stoney Creek Regional Facility

*Environmental Assessment  
Open House #1*

# The Options

*Thursday, December 7, 2017*



## Proposed Changes to the Facility

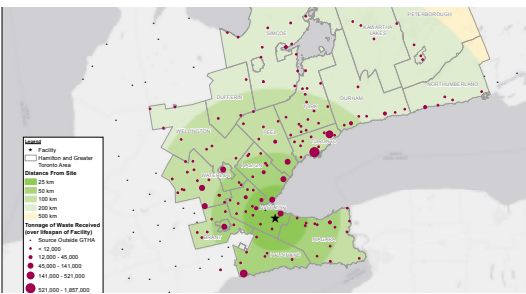
Terrapure is seeking approval to increase the capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup>.

Residual material is solid, non-hazardous material from commercial, industrial and institutional sectors.

Industrial fill is excess soil generated from construction activities, such as the redevelopment of brownfield sites and infrastructure renewal projects.

Terrapure only accepts material that cannot otherwise be reasonably diverted.

### Why is Terrapure Seeking a Capacity Increase?



We are responding to growing demands from the local economy and our local customers. 50% of the material received annually comes from customers in the City of Hamilton.



Industries such as steel-making and infrastructure developments like the McMaster Children's Hospital expansion and the new James Street GO Station rely on us to provide a safe and environmentally sound facility for their waste material.



By not exporting residual material to a facility further away, we are avoiding between 23,500 and 64,000 tonnes of Greenhouse Gas emissions per year.



The proposed changes would allow Terrapure to continue to provide a significant economic contribution to the local community, with well-paying jobs and over \$14 million in additional funding to community groups and infrastructure projects in Stoney Creek.



## Current Approved Footprint

Three of the options would replace industrial fill with residual material, allowing us to reach the ultimate capacity at the site sooner because the market rate for residual material is better and more consistent than industrial fill.

The currently approved footprint is included as part of the Environmental Assessment to represent what would happen if none of the six options were carried out.



Figure not to scale



- Current approved capacity is 6.32 million m<sup>3</sup> of residual material and 2 million m<sup>3</sup> of industrial fill
- Height (at peak) of 218.5 m
- Footprint of 59 hectares
- 30 m to the north and west sides of the SCRF property boundary
- Approximately 60 m to the south and east side of the SCRF property boundary
- The Heritage Green Community Trust would only continue for 2 to 4 more years



## The Options

### Option 1 - Reconfiguration : *Return to the 1996 approved landfill footprint*

Current Approved Footprint



Option 1

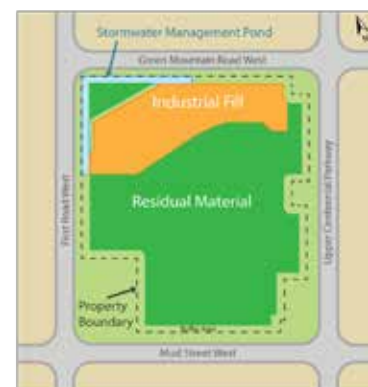


### Option 2 - Footprint Expansion: *Expand footprint into existing buffer area*

Current Approved Footprint



Option 2

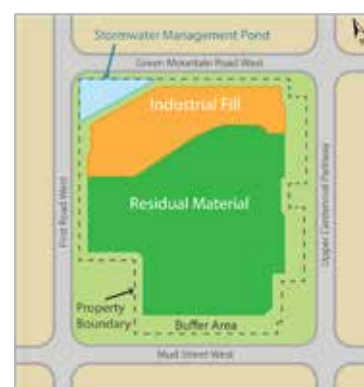


### Option 3 - Height Increase: *Increase height within existing footprint*

Current Approved Footprint



Option 3



# What does this mean?

## Capacity Change

## Height Change

## Footprint Change

2.5 million m<sup>3</sup>  
increase in  
residual  
material

No change

Replace fill  
area with  
residual  
material

1.3 million m<sup>3</sup>  
increase in  
residual  
material

No change

Horizontal  
expansion,  
maintain a 30 m  
buffer to the  
SCRF property  
boundary

3.68 million  
m<sup>3</sup> increase  
in residual  
material

12 metre  
increase

No change



## The Options

### Option 4 - Reconfiguration and Footprint Expansion: *Replace industrial fill with residual material*

Current Approved Footprint



Figure not to scale



Option 4



Figure not to scale

### Option 5 - Reconfiguration and Height Increase: *Replace industrial fill with residual material*

Current Approved Footprint



Figure not to scale



Option 5



Figure not to scale

### Option 6 - Footprint Expansion and Height Increase

Current Approved Footprint



Figure not to scale



Option 6



Figure not to scale

# What does this mean?

## Capacity Change

## Height Change

## Footprint Change

3.5 million m<sup>3</sup>  
increase in  
residual  
material

No change

Replace fill area  
with residual  
material and  
expand, maintain  
a 30 m buffer to  
the SCRF property  
boundary

3.68 million m<sup>3</sup>  
increase in  
residual  
material

2.5 metre  
increase

Replace fill area  
with residual  
material area,  
maintain  
current SCRF  
buffer areas

3.68 million m<sup>3</sup>  
increase in  
residual  
material

8 metre  
increase

Expand  
residual  
material area,  
maintain 30 m  
buffer to the  
SCRF property  
boundary

Notes:





## About Terrapure and the Proposal at a Glance



### **Who:**

Terrapure Environmental (Terrapure) is a leading Canadian provider of innovative, cost-effective environmental services and recycling solutions that help address industry's most complex environmental challenges.

The company's Stoney Creek Regional Facility (SCRF) receives residual material from industry and infrastructure projects, primarily from customers within the City of Hamilton.



### **What:**

Terrapure is in the process of completing an Individual Environmental Assessment (EA) seeking approval to increase the capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup> accepted on-site. Throughout this process there will be extensive consultation with the community and other stakeholders.



### **When:**

Terrapure began the Terms of Reference step in June 2016. The Environmental Assessment phase began in November 2017. We expect that the EA Report will be submitted to the Minister of the Environment and Climate Change for review and approval by late fall 2019.



### **Where:**

The Stoney Creek Regional Facility is located at 65 Green Road West in Hamilton and has been in operation for the last 21 years.





## Benefits to the Community and the Economy

Terrapure is proposing to add capacity for solid, non-hazardous industrial residual material at the SCRF by 3,680,000 m<sup>3</sup> accepted on-site. If approved this proposal bring advantages to the City of Hamilton, the local economy and the community of Upper Stoney Creek, including:

### Community of Upper Stoney Creek

- Total additional payments of \$7 million to the Heritage Green Community Trust (HGCT) to support local charitable, educational and community initiatives.
- This is in addition to the \$11 million invested in the community by Terrapure to date.



### City of Hamilton

- Total additional payments of \$2.2 million per year or \$22-24 million over the potential future life of the facility.
- Additional royalty payments for every tonne of material received each year at the SCRF totalling \$7 million over the potential future life of the facility. In addition to the \$11 million paid by Terrapure to the City to date.
- Continue to support City of Hamilton development / redevelopment projects.



Hamilton

### Hamilton Economy

- Continue to support the growth needs of the local economy. Approximately 50% of the residual material received each year at the SCRF comes from Hamilton-based customers
- If the proposal does not proceed, the additional costs to local industry beginning around 2020 is estimated to be between \$5 million and \$17 million per year to transport and dispose of residual materials at other facilities.
- Continue to generate over \$29 million per year or a total of \$350 million to \$370 million over the potential future life of the facility in economic activity in the City of Hamilton.



generously funded by  terrapure

*"On behalf of our schools and students, I would like to thank Terrapure for your generous support. The students involved in the Bishop Ryan Celt-X Robotics team as well as our elementary students who participated in the Mad Science "Love Your Lungs" Project have benefitted a great deal from the grants you have provided."  
Patrick Daily, HWCSB Board Chair (May, 2017)*



## The Stoney Creek Regional Facility Engineered Liner System

The Stoney Creek Regional Facility is a highly engineered site. In fact, its design has been called “state of the art” by an independent panel of experts.

The site includes a double-liner system that ensures maximum environmental protection. There are two layers of liner that act as a barrier between the waste and the natural environment. Together, these two layers are approximately 3 metres or 10 feet thick.

We have been in operation for 20 years and have never had an incident affecting human health or the environment

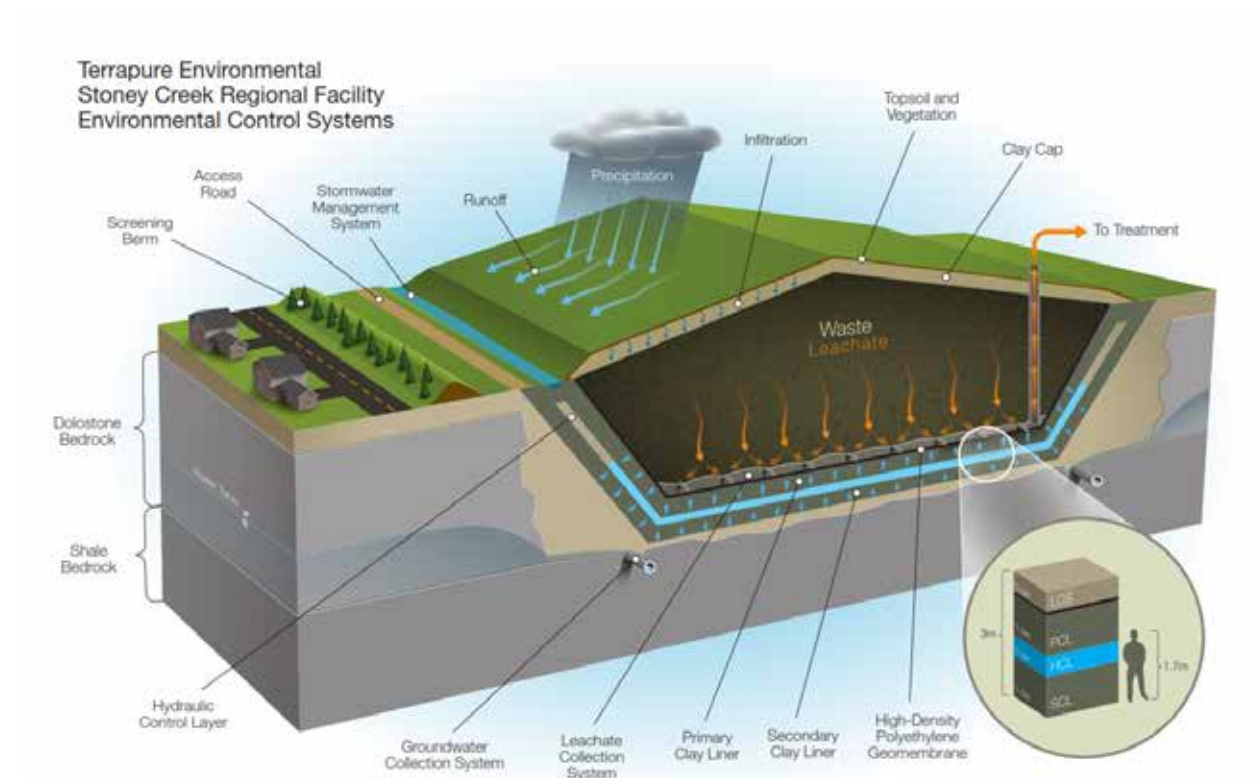
### TERRAPURE STONEY CREEK REGIONAL FACILITY Engineered Liner System



- ▶ **1. THE LEACHATE COLLECTION SYSTEM**  
A 0.35 m (1.15ft) layer of 19 mm clear stone, 0.15 m (0.5 ft) of Granular 'A' and a network of 200 mm diameter perforated HDPE pipe to collect leachate from within the site. The collected leachate is discharged to an appropriate licenced treatment facility.
  - ▶ **2. THE SYNTHETIC LINER**  
A continuous 80 mil high-density polyethylene membrane with welded seams.
  - ▶ **3. THE PRIMARY CLAY LINER**  
A 1m (3.3ft) layer of recompacted clay that meets rigorous density and moisture requirements.
  - ▶ **4. THE HYDRAULIC CONTROL LAYER**  
A 0.5m (1.65 ft) layer of 50mm (2") clear stone. Once landfilling is complete, the Hydraulic Control Layer is filled with water to maintain hydraulic pressure outside the site, forcing water to flow toward the landfill and ensuring no discharges to the environment.
  - ▶ **5. THE SECONDARY CLAY LINER**  
A 1m (3.3 ft) layer of recompacted clay that meets rigorous density and moisture requirements.
  - ▶ **6. THE GROUNDWATER COLLECTION SYSTEM (Not Shown)**  
A series of trenches filled with crushed stone beneath the site to facilitate groundwater pumping.
- THE FINAL COVER SYSTEM (Not Shown)**  
Once complete, the site will have a cap consisting of 0.6 m (1.97 ft) of recompacted clay and 0.15 m (0.5 ft) of vegetated topsoil.

## The SCRF Engineered Liner System

The highly engineered site ensures maximum environmental protection through a double-liner system and extensive leachate and groundwater collection systems. Below is a cross-section of the landfill site which shows the environmental controls in place to protect the natural environment and the surrounding community.



Berm is a mound of earth that visually blocks the view of the SCRF

Shale Bedrock is a mix of clay and parts of other minerals

Hydraulic Control Layer (HCL) is confined between the two compacted clay liners and is used to create a “hydraulic trap” and to monitor for unexpected leakage through the primary liner during the Facility-operating period

Leachate is water that passes through the waste

High-Density Polyethylene Geomembrane is a liner used to contain the leachate

Dolostone Bedrock is sedimentary carbonate rock composed mostly of the mineral dolomite

Stormwater is water that comes from rain and snow, and flows over land and into drainage systems

Primary Clay Liner (PCL) and Secondary Clay Liner (SCL) are naturally dense layers of clay material used to contain leachate



## Traffic Patterns Around the SCRF

- A Traffic Analysis was prepared in accordance with the City of Hamilton's Traffic Impact Study Guidelines using data provided by the City of Hamilton
- Analysis shows all intersections and individual movements are operating well with reserve capacity, low levels of delay, and queuing can be accommodated within existing turn lanes
- Average of about 70-80 trucks per day
- Traffic to the site would continue as-is



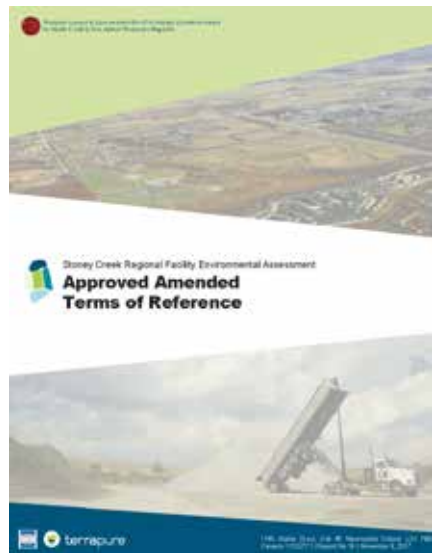
**Volume-to-Capacity Ratio:** Represents the ability of an intersection to accommodate vehicular demand. It is an indicator of the quality of operations at an intersection.

Volume-to-Capacity Ratio	Condition
< 0.85	Intersection is operating under capacity. Excessive delays are not experienced.
0.85-0.95	Intersection is operating near its capacity. Higher delays may be expected, but continuously increasing queues should not occur.
0.95-1.0	Unstable flow results in a wide range of delay. Intersection improvements will be required soon to avoid excessive delays.
> 1.0	The demand exceeds the available capacity of the intersection. Excessive delays and queueing are anticipated.





## Approved Amended Terms of Reference



The “Terms of Reference” is a road map that outlines how the Environmental Assessment (EA) is to be carried out.

The purpose of the proposal is to increase the approved capacity of the SCRF by 3.68 million m<sup>3</sup> with solid, non-hazardous industrial residual material predominantly from the Hamilton and Greater Toronto Area.

The Amended Terms of Reference was approved by the Minister of the Environment and Climate Change on November 9, 2017.

### During the Terms of Reference the following options were reviewed:

- Do nothing
- Build a new site elsewhere in Hamilton
- Export waste to another location
- Add capacity at the SCRF

### The Minister of the Environment and Climate Change (MOECC) approved the Terms of Reference, does this mean the capacity increase to the facility is approved?

*No, the approved Terms of Reference only permits Terrapure to conduct an Environmental Assessment to study the proposed capacity increase.*

### Commitments made in the Terms of Reference

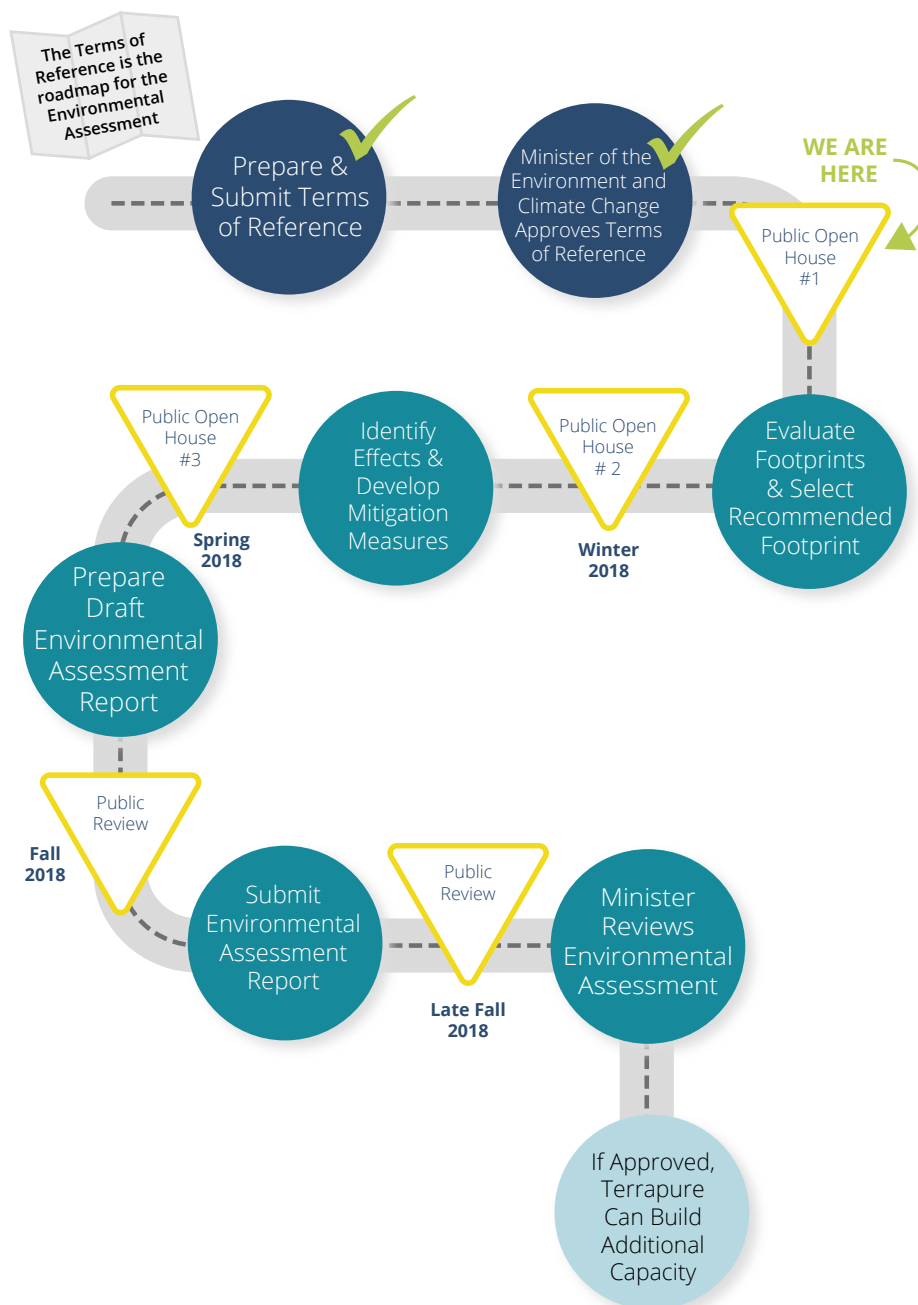
- Six options will be evaluated
- A 1.5km study area will be used for the environmental studies
- A monitoring framework will be developed to address environmental effects and environmental compliance
- The EA will consider potential effects during construction, operation and following closure of the Facility
- The effects of climate change on the project will be assessed and how greenhouse gas emissions reductions can be achieved
- The cumulative effects of other existing, planned, approved or foreseen projects/ activities will be assessed
- Throughout the EA there will be consultation opportunities
- Terrapure will examine and evaluate the feasibility and viability of implementing an onsite diversion program as part of the EA



## Environmental Assessment Road Map

An Environmental Assessment (EA) is a study that assesses the potential environmental effects (positive or negative) of a proposal. Key components of an EA include:

- Consultation with government agencies and the public
- Consideration and evaluation of the options
- The management of potential environmental effects



Conducting an EA promotes good environmental planning before decisions are made about moving forward with a proposal



## Approval of the Amended Terms of Reference Timeline



## Changes Made to the Terms of Reference

### May 2017 Amendments

- Clarified Purpose/Opportunity Statement
- Included "Do Nothing" as baseline for comparison
- Added commitment to assess existing leachate collection and treatment system for each Option
- Added consideration of human health effects and evaluation criteria

### November 2017 Amendment

- Terrapure will examine and evaluate the feasibility and viability of implementing an onsite diversion program as part of the environmental assessment process





## Amendment to the Terms of Reference

The amended Terms of Reference (ToR) for the Stoney Creek Regional Facility (SCRF) Environmental Assessment (EA) was approved by the Minister of the Environment and Climate Change (Minister) on November 9, 2017.

The revision to the amended ToR can be found in Subsection 2.1.1 Receiving Post Diversion Material at the SCRF. Below you will find the specific language change:

### **From: Proposed Amended Terms of Reference (May 9, 2017)**

The material accepted at the SCRF comes from a variety of customers and businesses that divert at their own operations and have implemented their own diversion and recovery system. Terrapure has Standard Operating Procedures (SOP) that addresses the screening and verification of material that is received on site to ensure the materials received on site match the Generator's Waste Profile, and that the Generator of the material has made the determination that the material cannot reasonably be diverted. Diversion at the source of the generated residual material from generators and customers considers both the economic viability of diversion as well as ensuring that there is a viable end market for the diverted material. ***It is not appropriate or reasonable for Terrapure to develop a diversion plan at the site given that the volumes of material that could be potentially diverted are minimal, and lack an established and financially viable end market. Regardless, in the spirit of the Province's new Waste Free Ontario Act (WFOA) that sets goals to increase diversion in Ontario, Terrapure will review the potential for on site diversion as part of the SCRF EA, (i.e., viability and financial feasibility of diversion for the types of materials received at the site currently). Terrapure will also work with its customers to continue to ensure diversion at the source of the generated material takes place.***

### **To: Approved Amended Terms of Reference (November 9, 2017)**

The material accepted at the SCRF comes from a variety of customers and businesses that divert at their own operations and have implemented their own diversion and recovery system. Terrapure has Standard Operating Procedures (SOP) that addresses the screening and verification of material that is received on site to ensure the materials received on site match the Generator's Waste Profile, and that the Generator of the material has made the determination that the material cannot reasonably be diverted. Diversion at the source of the generated residual material from generators and customers considers both the economic viability of diversion as well as ensuring that there is a viable end market for the diverted material. ***Although there is minimal waste material received at the SCRF that has the potential to be reasonably diverted or recycled, Terrapure will examine and evaluate the feasibility and viability of implementing an onsite diversion program as part of the environmental assessment process. This will include the consideration and assessment of a reasonable number of ways in which to divert the types of waste materials received at site. The assessment of an onsite diversion program will be carried out in accordance with best management practices, in consideration of new and emerging technologies, and in recognition of the goals and expectations set forth in the Waste Free Ontario Act.***



## Environmental Assessment Evaluation Criteria and Indicators

	Environmental Component	Evaluation Criteria	Indicators
<b>NATURAL</b>	<b>Geology &amp; Hydrogeology</b>	Effect on groundwater quality	<ul style="list-style-type: none"> <li>) Predicted effects to groundwater quality at property boundaries and off-site</li> <li>) Predicted effects to Source Water Protection Area</li> </ul>
		Effect on groundwater flow	<ul style="list-style-type: none"> <li>) Predicted effects to groundwater flow at property boundaries and off-site</li> </ul>
	<b>Surface Water Resources</b>	Effect on surface water quality	<ul style="list-style-type: none"> <li>) Predicted effects on surface water quality on-site and off-site</li> </ul>
		Effect on surface water quantity	<ul style="list-style-type: none"> <li>) Predicted change in drainage areas</li> <li>) Predicted occurrence and degree of off-site effects</li> </ul>
	<b>Terrestrial &amp; Aquatic Environment</b>	Effect on terrestrial ecosystems	<ul style="list-style-type: none"> <li>) Predicted impact on vegetation communities</li> <li>) Predicted impact on wildlife habitat</li> <li>) Predicted impact on vegetation and wildlife including rare, threatened or endangered species</li> </ul>
		Effect on aquatic ecosystems	<ul style="list-style-type: none"> <li>) Predicted impact on aquatic habitat</li> <li>) Predicted impact on aquatic biota</li> </ul>
	<b>Atmospheric Environment</b>	Effect of air quality on off-site receptors	<ul style="list-style-type: none"> <li>) Predicted off-site point of impingement concentrations (<math>\mu\text{g}/\text{m}^3</math>) of indicator compounds</li> <li>) Number of off-site receptors potentially affected (residential properties, public facilities, businesses, and institutions)</li> </ul>
		Effect of odours on off-site receptors	<ul style="list-style-type: none"> <li>) Predicted off-Site odour concentrations (<math>\mu\text{g}/\text{m}^3</math> and odour units)</li> <li>) Number of off-Site receptors potentially affected (residential properties, public facilities, businesses and institutions)</li> </ul>
		Effect of noise on off-site receptors	<ul style="list-style-type: none"> <li>) Predicted off-Site noise level</li> <li>) Number of off-Site receptors potentially affected (residential properties, public facilities, businesses, and institutions).</li> </ul>
	<b>BUILT</b>	<b>Land Use</b>	Effect on existing land uses
Effect on views of the facility			<ul style="list-style-type: none"> <li>) Predicted changes in views of the facility from the surrounding area</li> </ul>
<b>SOCIAL</b>	<b>Human Health</b>	Effect on human health	<ul style="list-style-type: none"> <li>) Predicted effects of air quality (particulate matter) on human health</li> <li>) Predicted effects of leachate quality (inorganic and organic chemicals) on human health</li> <li>) Predicted effects of groundwater quality on human health</li> <li>) Predicted effects of surface water quality on human health</li> </ul>
	<b>Transportation</b>	Effect on traffic	<ul style="list-style-type: none"> <li>) Potential for traffic collisions</li> <li>) Level of Service at intersections around the SCRF</li> </ul>



	Environmental Component	Evaluation Criteria	Indicators
ECONOMIC	Economic	Effect on approved/planned land uses	) Number, extent, and type of approved/planned land uses affected
		Economic benefit to the City of Hamilton and local community	) Employment at site (number and duration)
CULTURAL	Archaeology and Built Heritage	Effect on known or potential significant archaeological resources	) Number and type of potentially significant, known archaeological sites affected. ) Area (ha) of archaeological potential (i.e., lands with potential for the presence of significant archaeological resources) affected.
		Effect on built heritage resources and cultural heritage landscapes	) Number and type of built heritage resources and cultural heritage landscapes displaced or disrupted
TECHNICAL	Design & Operations	Potential to provide service for disposal	) Ability of Alternative Methods to provide disposal capacity for post-diversion solid, non-hazardous industrial residual material
		Cost of facility	) Approximate relative cost of Alternative Methods



# **APPENDIX D**

## **Public & Online Open House Comment Sheets**



## 1. Online Open House Comments on the Six Options

Submitted On	Comments on Option 1	Comments on Option 2	Comments on Option 3	Comments on Option 4	Comments on Option 5	Comments on Option 6
12/08/2017 15:15:40	Of all the options this would appear to be the best.	Option 2 and 4 could also be acceptable to me. I do not want an increase in the height of the landfill.				
12/09/2017 10:55:52	Best option among 6 options if I have to choose one. But I would like Terrapure to stick with the original approved footprint and capacity.	I would like Terrapure to stick with the original approved footprint and capacity.	No height increase should be allowed in any case.	I would like Terrapure to stick with the original approved footprint and capacity.	No height increase should be allowed in any case.	No height increase should be allowed in any case.
12/17/2017 23:44:58	<p>i dont like any of those options, and it is time to move somewhere else!</p> <p>it is specially the company incidentally got caught of wasting Imperial Street waste processing plant in Hamilton that emitted harmful gases to neighbouring businesses.</p> <p>The company got caught twice and fined twice this year and remember this got caught incidentally and I am curious how many times they accepted harmful things to their plants and involve with types of illegal activities. There were numerous fires occurred at Stoney creek facility and I think this may be relevant to accepting hazardous materials to this location as well!</p> <p>if the company got caught twice by incidentally than this must occurred many times and this might be even culture of this company and I asked Ministry to investigate further</p>					



12/18/2017 19:29:03	I don't think there should be any increase allowed.	I don 't think any increase should be allowed.	I don.t think any increase should be allowed. The height of the plan in existence is already too high. To increase the height by another 12 m is absolutely an abomination. This area has become residential in the last several years. Housing values will decrease especially those whose view will be looking at a mountain of landfill. Your proposal is so ridiculous. Do you plan to turn your mountain into a future ski hill?	I don't think any increase should be allowed	I don't think that any increase should be allowed. Any increase in volume or height will be a complete eyesore to the area that is now surrounded by housing developments.	I don't think any increase should be allowed. An increase of 8m is absolutely ridiculous in an area surrounded by housing developments. What an eyesore this will be to the area. This area has become residential and any increase in volume or height is a disgrace. This is something that should be done out in the country not in a residential area.
12/19/2017 19:58:08	I like no height increase and no change in footprint.	I like no height increase and 30m boundary,	I dislike the height increase it makes the dump more visible.	I like no height increase and no change in footprint.	I dislike the height increase it makes the dump more visible.	I dislike the height increase it makes the dump more visible.



<p>12/23/2017 17:22:19</p>	<p>too much material. concern re: existing homes and those being built in that area especially those between the site and the escarpment. was there not a reason for decreasing the original 1996 footprint? why are we going backwards??</p> <p>this option seems to be the least concerning of all the options, but it is STILL concerning.</p>	<p>dislike that existing buffer area will now no longer exist. dump footprint too close to property line to the north, south and east. concern re: existing homes and those being built in that area especially those between the site and the escarpment. was there not a reason for decreasing the original 1996 footprint? why are we going backwards??</p>	<p>too much material and way too high. concern re: existing homes and those being built in that area especially those between the site and the escarpment.</p>	<p>too much material, existing buffer area will no longer exist dump footprint too close to property line to the north, south and east concern re: existing homes and those being built in that area especially those between the site and the escarpment was there not a reason for decreasing the original 1996 footprint? why are we going backwards??</p>	<p>too much material, too high. concern re: existing homes and those being built in that area especially those between the site and the escarpment.</p>	<p>too much material, way too high, existing buffer area will no longer exist. dump footprint too close to property line to the north, south and east. concern re: existing homes and those being built in that area especially those between the site and the escarpment. was there not a reason for decreasing the original 1996 footprint? why are we going backwards??</p>
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<p>12/28/2017 9:40:10</p>	<p>This is the <b>ONLY</b> option that I could accept! The currently approved height restriction is already too high and will ensure the landfill will be a very noticeable blot in a very predominant residential area. Restricting capacity increase to 2.5 million m3 is tolerable, only if a time limit is established on the closure of the landfill, including final closure "landscaping", to say 5 years. I don't understand why your photographic renderings of Option 1 show a noticeable increase in height of the landfill vs. Existing Approved when there is "no height increase".</p>	<p>This is not acceptable as it reduces the buffer zone and marginalizes the engineering specifications and construction of the liner already in place and already filled with waste. Excavation of existing waste will undoubtedly expose the neighbourhood to unwanted and unhealthy air emissions.</p>	<p>This is not acceptable. ANY proposed height increase is <b>ABSOLUTELY NOT ACCEPTABLE!</b></p>	<p>This is not acceptable as it reduces the buffer zone and marginalizes the engineering specifications and construction of the liner already in place and already filled with waste. Excavation of existing waste will undoubtedly expose the neighbourhood to unwanted and unhealthy air emissions.</p>	<p>This is not acceptable. ANY proposed height increase is <b>ABSOLUTELY NOT ACCEPTABLE!</b></p>	<p>This is not acceptable. ANY proposed height increase is <b>ABSOLUTELY NOT ACCEPTABLE!</b> This is also not acceptable as it reduces the buffer zone and marginalizes the engineering specifications and construction of the liner already in place and already filled with waste. Excavation of existing waste will undoubtedly expose the neighbourhood to unwanted and unhealthy air emissions.</p>
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<p>01/01/2018 16:26:15</p>	<p>Option 1 is the only option that I could possibly support as it has no further height increase or change in footprint. It also would lead to an earlier closure of the site by removing the Industrial Fill portion that Terrapure claims the market is soft for. What I don't like about Option 1 is that it renders the entire 2013 Terrapure initiative whereby the site was increased by 2 million m3 for Industrial Fill obsolete. Consequently, my preferred Option which is not one of the 6 listed is to close the site now, build the liner in the 17 hectares and bulldoze the amounts currently above the initial Final Approved Elevation into that area. In essence, return to the</p>	<p>I dislike Option 2 for 2 reasons:</p> <ol style="list-style-type: none"> <li>1. Why consider maintaining the 2 million m3 for Industrial Fill when you can't get the material to fill it? That will only lead to a longer site life, and likely another EA proposal from Terrapure years from now to convert the 2 million m3 Industrial Fill back to Residual Material. This option should be removed from consideration.</li> <li>2. The need to mess with the Stormwater Retention pond doesn't sound like a good idea, I'm sure the original intent to not fill this area was done for a reason.</li> </ol>	<p>This is in my opinion the absolute worst of the 6 options for the following reasons: 1. It increases the site capacity to 12 million m3 (not 10 million m3) as compared to the original 1996 site license which was for ~5 million m3. 2. Why consider maintaining the 2 million m3 for Industrial Fill when you can't get the material to fill it? That will only lead to a longer site life, and likely another EA proposal from Terrapure years from now to convert the 2 million m3 Industrial Fill back to Residual Material. 3. A further 12 meter height increase to 230 MASL as compared to the average of surrounding lands of 205 MASL means that</p>	<p>I like the fact that Option 4 gets rid of the Industrial Fill requirement, but do not like the extension into the Stormwater Retention pond. As I stated in Option 1, my preferred Option which is not one of the 6 listed is to close the site now, build the liner in the 17 hectares and bulldoze the amounts currently above the initial Final Approved Elevation into that area. In essence, return to the site license that existed prior to the 2013 amendment and close the facility as soon as possible.</p>	<p>I like the fact that Option 5 gets rid of the Industrial Fill requirement, but hate the further increase in height. The increase to 221 MASL would leave the community with a 16 meter or 53 foot "mountain". No one in the community that I have spoken to is supportive of any increase in height, so this Option is not acceptable to the community.</p>	<p>This option is equally as bad as Option 3 for the following reasons: 1. It increases the site capacity to 12 million m3 (not 10 million m3) as compared to the original 1996 site license which was for ~5 million m3. 2. Why consider maintaining the 2 million m3 for Industrial Fill when you can't get the material to fill it? That will only lead to a longer site life, and likely another EA proposal from Terrapure years from now to convert the 2 million m3 Industrial Fill back to Residual Material. 3. The need to mess with the Stormwater Retention pond doesn't sound like a good idea, I'm sure the original intent to not fill this area was done for a reason. 4. The increase to 225.5 MASL would</p>
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	site license that existed prior to the 2013 amendment and close the facility as soon as possible.		the community would be left with a 25 meter or 82 foot "mountain". This is not acceptable to the citizens of Stoney Creek.			leave the community with a 20.5 meter or 67 foot "mountain" that is not acceptable to the community.
01/03/2018 14:53:12		<p>First - I want to raise a concern about the terminology used by the proponent. Why not keep the terms consistent with terms used in Ontario Reg 347? Residual material is 'non-hazardous solid industrial waste' and this term provides the public with confirmation that it is, in fact, a waste material.</p> <p>We do not support expansion of the footprint for non-hazardous solid industrial waste into the buffer area.</p>	We do not support any additional height increases at the Terrapure Stoney Creek facility.	We do not support the extension of the footprint area for non-hazardous solid industrial waste into the existing buffer area.	See above - we do not support any height increases and we do not support allowing non-hazardous solid industrial waste to be filled in the existing buffer area.	See above - we do not support this option.



01/04/2018 7:39:42	I prefer this option as it does not have a height increase and will allow for the earliest closure of the facility which I support.	I dislike this option as it maintains the Industrial Fill portion that Terrapure says there isn't demand for which will result in the site staying open longer.	I dislike this option as it maintains the Industrial Fill portion that Terrapure says there isn't demand for which will result in the site staying open longer. Plus I am strongly opposed to the 12 meter height increase.	I dislike this option as it will keep the site open longer than would option one.	I dislike this option as it will keep the site open longer than would option one, and I oppose the 2.5 meter height increase.	I dislike this option as it maintains the Industrial Fill portion that Terrapure says there isn't demand for which will result in the site staying open longer. Plus I am strongly opposed to the 8 meter height increase.
1/10/2018 18:20	To me this is the only acceptable option	No	No	No	No	No
1/11/2018 10:36	Like no increase in height (material already is visible from surrounding streets); no increase in footprint.  Dislike increase in capacity.	Like no height increase.  Dislike increase in capacity and expansion of area footprint.	Like no change in footprint.  Dislike increase in capacity and height increase.	Like no height increase.  Dislike increase of capacity and expansion of residual material area.	Dislike increase in capacity and increase in height.  Current buffers are inadequate. Grading and tree plantings should be significantly enhanced. Fabric fence is an eyesore and often is unfastened and flapping in the wind.	Dislike all features of this proposal.
1/14/2018 15:05	I live on 119 Penny Lane and the current view from my house I can see your entire site. This is already a major eyesore and expansion is unacceptable.					



## 2. Comments on Natural Environment & Surrounding Communities

Submitted On	1. What natural environment features in the study area would you like the project team to consider	2. Would you like to add or change any evaluation criteria see evaluation criteria material	3. What is unique about Upper Stoney Creek	4. What community features in the study area would you like the project team to consider	5. Would you like to add or change any evaluation criteria	6. Do you have any comments on the proposed study area see map at top If yes please explain
12/10/2017 23:11:39	Air quality					



<p>01/01/2018 16:42:27</p>	<p>I think it is ridiculous how little of the Evaluation Criteria deals with the visual impact (the height) of the site once closed. If you speak to members of the community, this is their #1 concern and yet it carries no more weight on the Evaluation Criteria than "Predicted impacted on aquatic biota".</p> <p>The intersection of Mud and Hwy 20 is one of the busiest in Upper Stoney Creek. As a community member, we do not want an "eyesore" to be what people remember when they drive by this portion of Stoney Creek (similar to what people see of the old Upper Ottawa Street landfill when driving along Stonechurch). That is why so many community members do not support any further increase in height to the site.</p>	<p>I would like to see the visual impact portion of the Evaluation Criteria increased to the most important criteria commensurate with how the community views its importance. If you really value the communities input, then the Evaluation Criteria should reflect the items that the community has addressed as their concerns. Having read the 75 or so community inputs that were submitted during the Terms of Reference stage, I can say for certain that the visual impact (the height) of the site is the community members biggest concern.</p>			<p>See comments above.</p>	
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<p>01/03/2018 15:05:04</p>	<p>Consideration must be given to any impacts on surrounding natural features and functions - including aquatic systems and wildlife habitat (including protecting /enhancing wildlife corridors).</p>	<p>We have reviewed the evaluation criteria and this list looks quite comprehensive.</p>	<p>Upper Stoney Creek is currently growing very quickly - with lots of new development happening immediately north and south of the landfill site. The closed West Quarry site is also now actively used for passive and active recreation. This raises new concerns about the impact of an operating landfill on residential communities (noise, dust, odour, etc). New communities also bring residents who are more vulnerable to these impacts - including children and the elderly. Location of this facility near sensitive land uses introduces new challenges - and raises fundamental concerns for us when it comes to the north buffer zone and any proposal to actively fill this area with non-hazardous industrial waste.</p>	<p>See above. Evaluation of potential impacts needs to take into consideration the fact that the landfill site is now surrounded by sensitive land uses - more of them than there were when the site was originally approved. The list of criteria to be considered to assess impacts on the surrounding community appear to be adequate. We would also like to see assurances that the provincial MOECC guidelines for appropriate separation distances for landfills are respected with any decision that is made regarding this site.</p>	<p>Will the proponent do any assessment of increases in roadway volumes as a result of activities at the landfill site?</p>	<p>The study area looks reasonable - although there should also be consideration of impacts that go beyond this area - like truck traffic impacts.</p>
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<p>01/04/2018 7:43:29</p>		<p>From what I have read or heard in the community, citizens of Stoney Creek want the Terrapure site closed as soon as possible. Consequently, a significant portion of the Evaluation Criteria should focus on when each of the options allows for site closure. For some reason there is nothing in the current Evaluation Criteria pertaining to site closure; that needs to be addressed.</p>			<p>Site closure date for each option.</p>	
<p>01/11/2018 9:45:37</p>	<p>Final height above grade when capped and how it can possibly look like anything other than a poorly covered dump unless rolling hills and not too high.</p>		<p>We have an industrial material waste dump fairly new and right next to existing and new housing.</p>	<p>How the site can be made to blend in to the area when done, and hopefully before it is a mountain of waste too high to cover with soil.</p>	<p>The evaluation criteria must have a new site or plans to redirect waste to existing alternative sites on the table in order to realistically plan an end result for this site. Without this, expansion options will regularly resurface with a few really bad options thrown in so that the continued next increase in capacity can be sold as the only option.</p>	<p>Give us a not to be exceeded under any future circumstances final option to vote on. And please make it blend in and not be a future Randal Reef.</p>



01/11/2018 11:00:48	The natural environment is best served if the existing limits on this site are preserved and no increase in height, footprint or capacity are permitted.	Why is this site being considered to accept additional industrial and residual material from the GTA? This facility should have been used for disposal of LOCAL waste, but has reached capacity by accepting materials from a greater market area. The original permit (granted when this site was not in the middle of a residential area) has been exhausted and the site should be closed as per the existing permit.	Upper Stoney Creek is a residential community. What is unique is the presence of a large landfill operation at a main intersection.	The landfill site is surrounded by residential development and approving any increase in the capacity, footprint and/or height of the site will increase truck traffic, obstruction of the horizon with landfill materials and heavy earth moving equipment, and noise and odours from the site.		The study area should include all areas west of the site to the freeway since these residents travel along Mud Street to Hwy. 20 to travel north and south on Hwy 20 (Centennial) and are subject to the views, noises, traffic and odours of the site.
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### 3. Additional Comments and Follow up Request

<b>Submitted On</b>	<b>If you have additional comments please provide them below</b>	<b>I would like someone to contact me regarding my comment(s).</b>	<b>Please send me project updates</b>	<b>Name</b>	<b>Email Address</b>	<b>Phone Optional</b>	<b>Address Optional</b>
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12/09/2017 11:04:49	It does not make any sense to have a landfill in the middle of residential area. Terrapure should stick with the originally approved footprint and capacity, and close the landfill when it reaches the designed capacity.		X	[REDACTED]	[REDACTED]		
12/18/2017 0:19:00	no		X	[REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]	
12/18/2017 19:37:20				[REDACTED] [REDACTED]	[REDACTED]		
01/01/2018 16:53:35	Please review Table 4.1 Comparison of Alternatives in the Conceptual Design Report as I think there may be an error. Under Height Relative to Surrounding Area for Green Mountain and First Road it shows 192 MASL whereas I believe the surrounding land in those areas are 201 MASL and 204 MASL respectively, not 192 MASL shown. 192 MASL is the elevation for the bottom of the original quarry.	X	X	[REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]	



01/03/2018 15:05:51			X	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
01/04/2018 7:46:16					[REDACTED]		
1/10/2018 18:22	No further increases in height is the key factor			[REDACTED]			
1/11/2018 10:04	There is clearly no plan to wind down this site. When you ultimately go way past a situation that can be properly concealed and not be a long term health issue, there will be no fix, as removing the waste won't be an option. Give us an option that is final. Commit to not coming back and asking for an increase when it is reached.	X	X	[REDACTED]	[REDACTED]	[REDACTED]	
1/11/2018 11:02			X	[REDACTED]	[REDACTED]		

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