Appendix D. Project Update Communication Materials

May 8, 2020

Subject: **GFL Environmental Inc. Proposed Terms of Reference for an Environmental Assessment – Future Development of the Eastern Ontario Waste Handling Facility**

As published in the Notice of Commencement, GFL Environmental Inc. has commenced an Environmental Assessment (EA) seeking approval for the future development of our existing Eastern Ontario Waste Handling Facility (EOWHF) in Moose Creek, Ontario. GFL appreciates the involvement of the public, agencies, and Indigenous communities in the EA, including the participation of interested parties at our Public Open House #1 event held on January 30, 2020, and the feedback provided which will allow us to address concerns and develop a better project.

We wanted to provide you with an update on our project and outline how we are responding to the comments received to-date. The display materials from Public Open House #1 (POH #1) are posted on the project website (www.gflenv.com/moose-creek-eowhf/) along with a Summary Report, which provides the details of POH #1.

At POH #1, along with the lead up and subsequent follow up, we heard your comments and concerns regarding odours from the EOWHF's existing operations. In 2017, GFL initiated a 3-year plan to enhance the management of landfill gas (LFG) at the EOWHF, and we believe that substantial improvements have been achieved to-date. LFG extraction wells, which are under a constant vacuum to pull LFG from the landfill to the LFG utilization facility, are installed every year to capture the LFG generated within the most recently landfilled waste. There are now 198 extraction wells in operation with an additional 114 wells pending for the remainder of the landfill. GFL is also boosting the suction and destruction capacity of the on-site LFG utilization facility by installing a second blower skid and a third gas flare, anticipated to be operational by the end of summer 2020. An LFG Management handout outlining these site enhancements is available on our project website. GFL will continue to proactively undertake measures to minimize the potential for odours from operations.

A range of other comments were received and considered by GFL. Responses were developed for each comment to outline how the issue will be considered in the EA process. A copy of the tabulated comments and responses is available on the project website.

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Through the EOWHF, GFL is a major contributor to Moose Creek, North Stormont, Casselman and the broader surrounding communities. We are committed to being a good neighbour, employer and supporter of local businesses and communities. A Community Benefits handout outlining how we are "Keeping It Local" is available on the project website. Our future development project will allow us to continue being an essential service and contributor to the region.

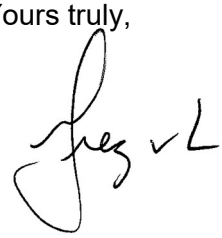
GFL is committed to ongoing consultation and engagement with our neighbours and anyone having an interest in the project. Once it is again safe to do so, we will be responding to requests for tours of the EOWHF and providing further in-person opportunities to discuss the project. We will be working to determine how best to conduct these activities that is respectful of personal safety and physical distancing guidelines.

Members of the public, agencies, Indigenous communities, and other interested persons are encouraged to continue to actively participate in our EA process. In early June, we are planning to make available a draft Terms of Reference (ToR) for review and comment. Broad notification of the availability of the draft ToR will be provided at that time.

In the interim, if you have any questions or comments on our proposed project please contact me at (613) 538-2776 ext. 223 or gvanloenen@gflenv.com.

Thank you for your time and interest in our proposed project.

Yours truly,



Greg van Loenen
Environmental Compliance Officer
Telephone: (613) 538-2776 ext. 223
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Le 8 mai 2020

Objet : **Cadre de références proposé par GFL Environmental Inc. pour une évaluation environnementale – Futur développement de l'installation de manutention des déchets de l'Est de l'Ontario**

Tel que publié dans l'avis de projet, GFL Environmental Inc. a débuté les travaux d'évaluation environnementale afin d'obtenir l'autorisation pour le futur développement de l'installation de manutention des déchets de l'Est de l'Ontario (EOWHF) de Moose Creek, en Ontario. GFL est reconnaissante de la contribution des citoyens, des organismes et des communautés autochtones au processus d'évaluation environnementale, ainsi qu'aux divers groupes d'intérêt qui ont participé à notre activité publique d'information tenue le 30 janvier 2020. Les commentaires et suggestions recueillis nous permettrons de tenir compte des préoccupations exprimées et bonifier notre projet.

Nous tenons à vous présenter un état de la situation de notre projet et à partager comment nous comptons répondre aux commentaires soulevés jusqu'à présent. Vous trouverez sur le site Internet du projet (www.gflenv.com/moose-creek-eowhf/) tous les documents présentés lors de notre activité d'information de même qu'un résumé des échanges tenus lors de cette soirée.

Au cours de cette activité, de même que durant les jours qui ont précédé et suivi cette soirée d'information publique, nous avons entendu vos commentaires et vos préoccupations concernant les odeurs associées aux activités actuelles de l'EOWHF. En 2017, GFL a mis en œuvre un plan triennal pour améliorer la gestion du biogaz à l'EOWHF et nous croyons que des améliorations significatives ont été réalisées jusqu'à présent. L'extraction du biogaz est réalisée par des puits de captage reliés à un système d'aspiration continue. Notons que des puits de captage sont installés à chaque année afin d'extraire le biogaz produits par les matières résiduelles enfouies plus récemment. Présentement, 198 puits de captage sont en service et 114 autres puits sont prévus pour le reste du site. De plus, GFL augmentera d'ici la fin de l'été 2020 la capacité d'aspiration et de destruction de ses équipements de gestion du biogaz en installant un deuxième système d'aspiration et une troisième torchère. Un document relatif aux équipements et améliorations destinés à optimiser la gestion du biogaz est disponible sur le site Internet du projet. Soyez assuré que GFL entend continuer d'être proactive dans la mise en place de mesures visant à minimiser les odeurs reliées à ses activités.

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D’autres commentaires ont été reçus et analysés par GFL. Des réponses ont été élaborées pour chaque commentaire afin qu’il soit pris en compte dans le processus d'évaluation environnementale. Une compilation des commentaires et des réponses est disponible sur le site Internet du projet.

Par l’entremise de l'EOWHF, GFL est aussi un important partenaire corporatif à Moose Creek, North Stormont, Casselman et dans les communautés environnantes. Nous continuerons d’agir comme un bon voisin et un employeur responsable, ainsi qu’à encourager les entreprises locales et les groupes du milieu. Un document soulignant notre engagement à contribuer au développement de la communauté (*Keeping it Local*) est disponible sur le site Internet du projet. Notre futur projet de développement nous permettra de maintenir notre rôle de service essentiel et un contributeur à la région.

GFL s'engage à consulter et échanger de façon continue avec ses voisins et toutes les personnes intéressées à notre projet. Une fois qu'il sera à nouveau possible de le faire en toute sécurité, nous organiserons des visites de nos installations afin d’offrir d’autres occasions de discuter de notre projet en personne. Toutes les mesures de sécurité seront misent en place afin que ces activités soient tenues de façon sécuritaire et dans le respect des règles de distanciation sociale.

Les citoyens, les agences gouvernementales, les communautés autochtones et toutes les personnes intéressées par notre projet sont invités à continuer de participer activement à notre démarche d’évaluation environnementale. Au début du mois de juin, nous prévoyons déposer la version préliminaire du cadre de références (ToR) pour consultation et afin de recueillir vos commentaires. Au moment opportun, un avis public sera diffusé à cet effet.

D’ici là, si vous avez des questions ou des commentaires sur notre projet, vous pouvez me rejoindre au (613) 538-2776, poste 223 ou à gvanloenen@gflenv.com.

En vous remerciant de l’attention que vous portez à notre projet, veuillez accepter l’expression de nos sentiments les meilleurs.

Greg van Loenen
Responsible de la conformité environnementale
Téléphone: (613) 538-2776, poste 223
Courriel: gvanloenen@gflenv.com

Keeping It Local

EOWHF is a **major contributor** to Moose Creek, North Stormont, Casselman & surrounding communities

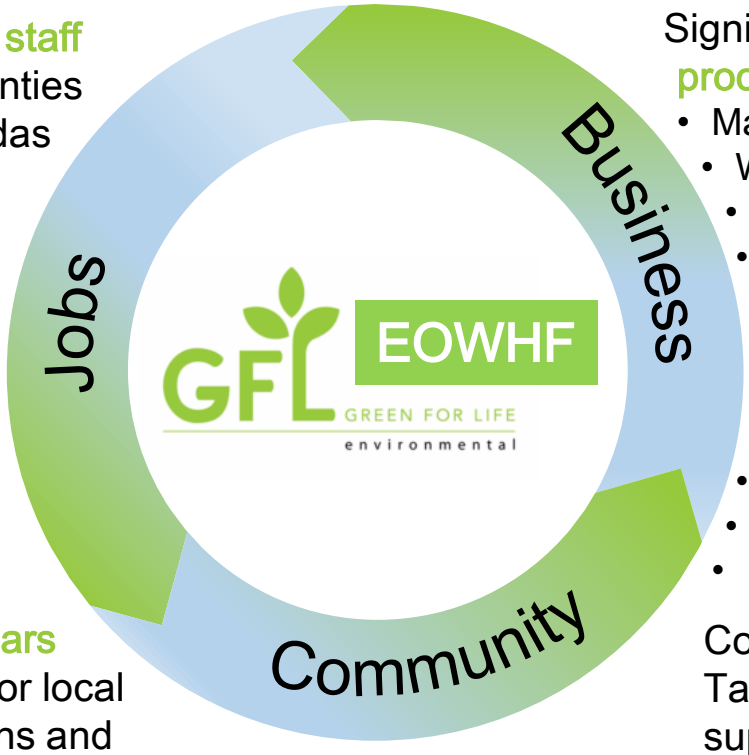
Largest Employer in North Stormont

Annually procure approximately **$10 million** of goods and services within the region

Approximately **30 staff** live in United Counties of Stormont, Dundas and Glengarry

Provide **stable full-time jobs** to local residents

Contributed **$500,000** to Finch Arena renovation



Significant local **procurement** includes:

- MacEwen Fuels
- Wanna Make It Farms
- Les Sols Calco Soils
- Microtel Inn & Suites
- HF Smith & Son
- McDonald Electric
- A.L. Blair Construction
- Lou-Tec - Electrotek
- Rolland Plumbing
- Olsenfab Metal

Thousands of dollars annually to sponsor local teams, associations and municipal functions

Contributed **$10,000** to Tastefest in 2019, supporting the Moose Creek Pool

Host waste management **educational events** for local groups

Host Community Agreement: contribute $1 per tonne to the host community. Over $600,000 provided in 2019

GFL GREEN FOR LIFE environmental

To learn more about our work and progress please contact:

Mr. Greg van Loenen
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Partenaire dans la communauté

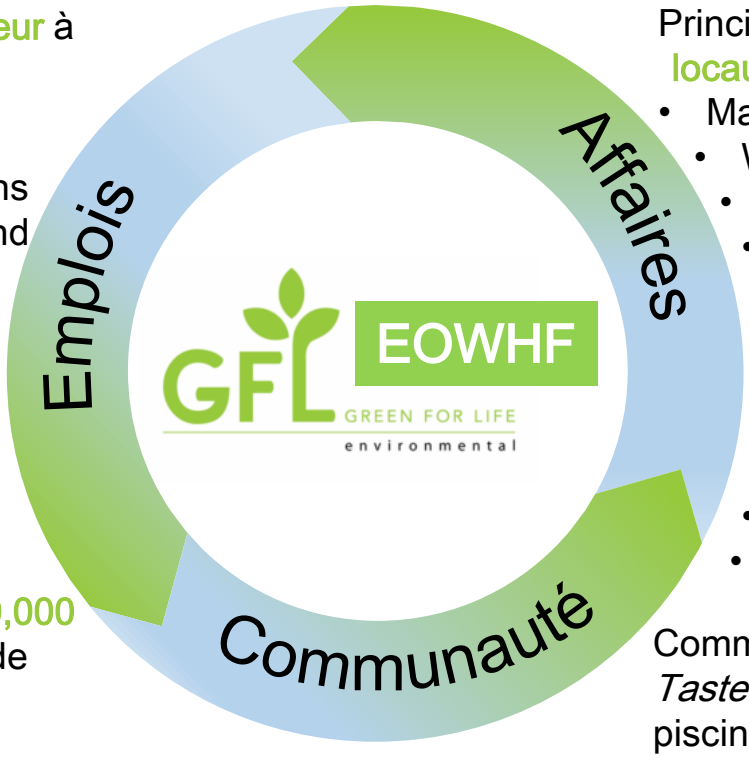
EOWHF est un **important partenaire corporatif** à Moose Creek, North Stormont, Casselman et dans les communautés environnantes

Environ **10 millions $ par année** pour l'achat de biens et services dans la région

Plus grand employeur à North Stormont

Environ **30 employés** habitent dans les cantons de Stormont, Dundas and Glengarry

Offre des **emplois réguliers à temps plein** aux citoyens de la communauté



Principaux **fournisseurs locaux**:

- MacEwen Fuels
- Wanna Make It Farms
- Les Sols Calco Soils
- Microtel Inn & Suites
- HF Smith & Son
- McDonald Electric
- A.L. Blair Construction
- Lou-Tec - Electrotek
- Rolland Plumbing
- Olsenfab Metal

Soutien financier de **500,000 $** pour la rénovation de l'aréna de Finch

Commandite de **10,000 $** au *Tastefest* en 2019 pour la piscine de Moose Creek

Contribution annuelle de **plusieurs milliers de dollars** aux équipes, associations et événements dans la communauté

Activités éducatives sur la gestion des matieres résiduelles pour les groupes locaux

Redevances annuelles remises à la communauté - 1 $ par tonne.
Plus de 600,000 $ remis en 2019

GFL GREEN FOR LIFE environmental

Si vous souhaitez soumettre une question, veuillez communiquer avec:

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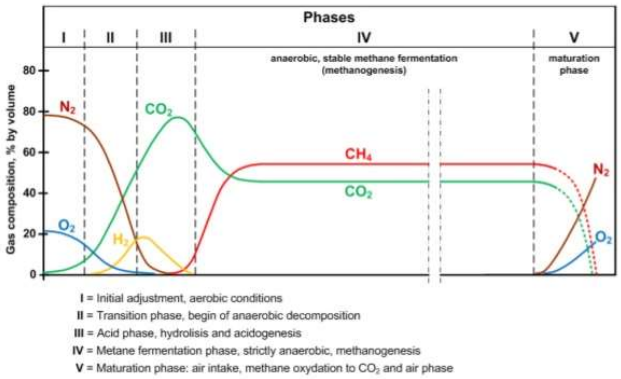
EOWHF Landfill Gas Management

GFL GREEN FOR LIFE environmental

What causes landfill odours?

- Waste decomposes in an anaerobic (no oxygen) environment. Anaerobic decomposition produces landfill gas (LFG) that consists of:
  - Methane - 50-55%
  - Carbon Dioxide – 45-50%
  - Others (H_2S, VOCs, siloxanes) – 1%

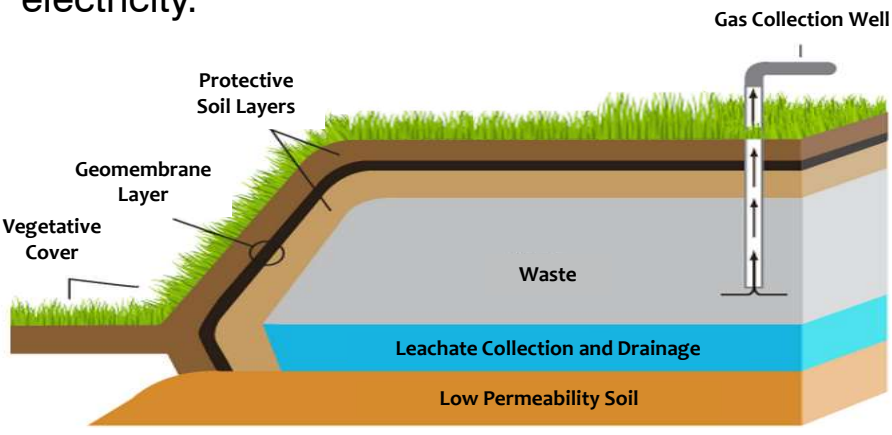


How are we managing LFG?

- Daily Waste Placement:
  - Apply 15 cm of soil cover each working day
  - Operate odour masking misting system

- Full Landfill Cells:
  - Apply 30 cm of soil cover
  - Install biogas extraction wells
    - 198 in operation now
  - Place engineered impermeable liner
  - Finish with topsoil and vegetation

- LFG is removed from the landfill by the extraction wells under a constant vacuum, and travels through buried piping to the onsite Landfill Gas to Energy Facility, generating electricity.



EOWHF Landfill Gas Management

The Landfill Gas to Energy Facility began operation in 2012 and consists of **4 GE Jenbacher Engines** which produce **4.2 MW** of electricity, powering approximately **4,000 homes**.

A 3,000 cfm flare burns surplus biogas.

- Stage 1 - 72 wells
- Stage 2 - 72 wells
- Stage 3A - 54 wells in place
- Stage 3B & 4 - 114 pending

Additional LFG management infrastructure to be installed in 2020 includes a second blower skid, a third flare, and design modifications to maximize biogas capture.

Approximately $6 million being spent annually on LFG management related infrastructure.

Routine landfill surface scans are conducted to detect and address fugitive emissions.

To learn more about our work and progress please contact:

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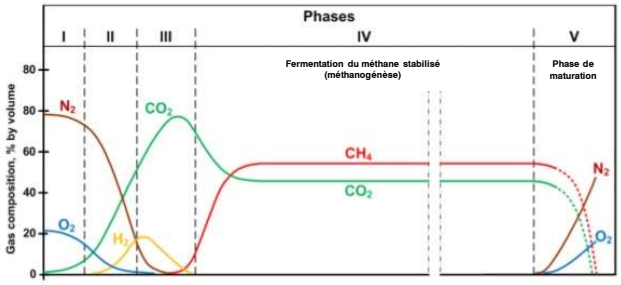
GESTION DU BIOGAZ (EOWHF)

Comment sont générées les odeurs?

- Les matières résiduelles se décomposent dans un milieu anaérobique (sans oxygène).
  La décomposition anaérobique produit un biogaz
  fait de:
  - Méthane - 50-55 %
  - Dioxide de carbone - 45-50 %
  - Autres (H_2S, VOCs, siloxanes) - 1%



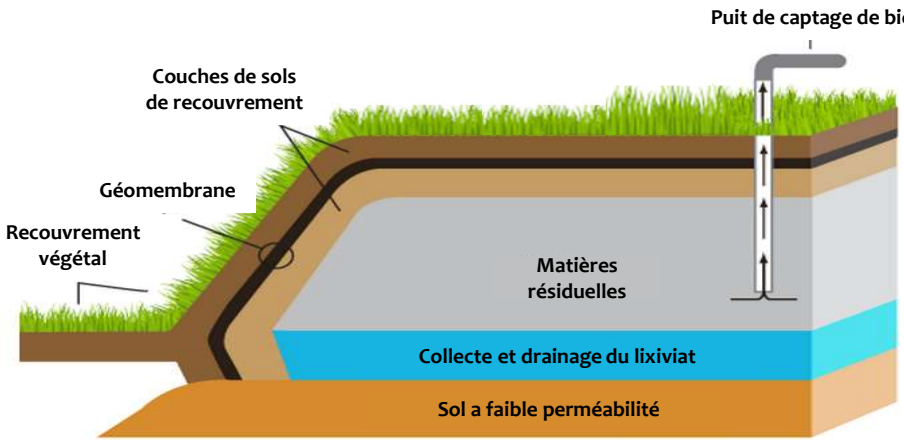
I: Conditions initiales aérobiques
II: Phase de transition, début de la décomposition anaérobique
III: Phase acide, hydrolyse et acidogenèse
IV: Phase de fermentation du méthane, strictement anaérobique, méthanogenèse
V: Phase de maturation: oxydation du méthane en CO_2

Comment nous traitons le biogaz?

- Disposition journalière des matières résiduelles
  - Recouvrement de 15 cm de sols après chaque journée de travail
  - Utilisation de brumisateurs pour masquer les odeurs

- Cellules d'enfouissement à pleine capacité:
  - Recouvrement de 30 cm de sols
  - Installation de capteurs de biogaz
    - Actuellement 198 en service
  - Installation d'une géomembrane imperméable
  - Recouvrement final et ensemencement

- L'extraction du biogaz se fait à l'aide de capteurs et d'un système d'aspiration pour ensuite être transportés par un réseau de collectrices vers l'usine de cogénération de biogaz (implantée sur le site) qui produira de l'électricté.

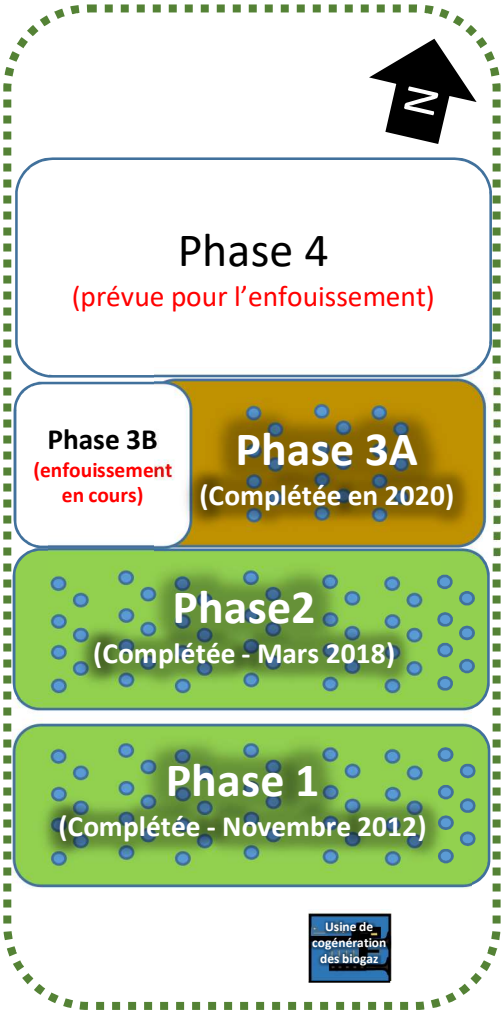


GESTION DU BIOGAZ (EOWHF)

L'usine de cogénération de biogaz est entrée en service en 2012 et compte **4 génératrices GE Jenbacher** qui produisent **4.2 MW** d'électricité pouvant alimenter environ **4,000 résidences**.

Une torchère de 3,000 cfm pour détruire les surplus de biogaz.

- Phase 1 - 72 puits de captage
- Phase 2 - 72 puits de captage
- Phase 3A - 54 puits de captage en place
- Phase 3B & 4 - 114 puits de captage sont prévus



D'autres mesures de gestion du biogaz sont prévus en 2020, telles que l'augmentation du système d'aspiration, une 3e torchère et d'autres modifications pour optimiser le captage des biogaz.

Environ 6 millions $ sont investis annuellement dans des équipements de gestion du biogaz.

Relevés des émissions surfaciques du site afin de détecter et colamater les fuites de biogaz.

Pour en savoir plus sur nos projets et nos activités, veuillez communiquer avec:

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Courriel: gvanloenen@gflenv.com

Comment	Response
Open House Materials	
The information provided was well done and very informative. My expectation is all materials displayed will be available on-line.	The materials from Public Open House #1 are available on the project website at: http://gflenv.com/moose-creek-eowhf.
A lot of information to absorb in a short period of time. Would appreciate having it available online.	
High level of the project only, at first glance the presentation is good.	Comment acknowledged.
The project seems valuable and well measured.	Comment acknowledged.
Good explanation of your process and plan and timeline/schedule.	Comment acknowledged.
I wish there was more of a presentation with general discussion and Q&A presented to a group as I am not the type to walk up to people and would benefit from listening to everyone's questions and concerns.	GFL has found that the Open House drop-in format with display panels allows participants to review the information at their own pace and obtain the same information as other participants regardless of what time they attend the Open House. The format of future public events will be reviewed as appropriate. With the current COVID-19 pandemic situation and limitations on future public gatherings, the public is encouraged to contact Greg van Loenen of GFL directly to answer any questions or obtain additional information. Contact information is available on the project website.
The presentation is excellent.	Comment acknowledged.
Good general presentation but I have to wait until more specific details are available.	Additional details will be available on the project website and in the draft Terms of Reference.
Nicely presented. Well explained. Lots of information on chart.	Comment acknowledged.
It was well setup and I got my answers - Well done.	Comment acknowledged.
Odour	
GFL would need to improve the reduction of odours that the site is producing.	In 2017, GFL initiated a 3-year plan to enhance the landfill gas management system at the EOWHF and substantial improvements in landfill gas odour have been achieved from past operations. Additional gas wells have been installed, and a second blower skid and a third flare will be installed in 2020, which are anticipated to continue to minimize odours at the site. GFL will continue to undertake measures to minimize the potential for odours from operations.
It is important that odour elimination be the priority in your operation. This issue would need to be resolved before any future expansion.	
Despite the promises, the reductions did not occur. It is sometime unbearable especially in summer which constraints us to keep the house's windows closed and to use the AC. The project doesn't demonstrate a reduction of the smells.	
At Casselman, the air quality is poor, the smells. Please help with the smells.	
On paper it all sounds/looks good but in reality the smell in Casselman is at a high level - daily at various intensity.	
I/we currently smell the dump from our business and house. I don't think you should expand until you learn to manage the current smell issue! In the summer of 2018 (the worse year ever) the smell in Casselman was daily and very intense. Last summer (2019) there were days (~3-4/month) with no smell. However 2 days we actually had the smell inside the physio clinic - that is not acceptable.	
Casselman business (i.e., our St. Hubert restaurant) has a lot of out of town visitors commenting on the smell. We are afraid it will cost business in terms of deterring people (Highway commuters) from stopping again *We need the business.	
Smell!	
For current operations, my concern or comment would be about the smell as it's the easiest to "see"	
Our concern is smell - please ensure GFL can successfully handle the gas smell before increasing cells.	
I live South east of landfill site and concerned about odours.	
At municipality [Nation], we get a lot of complaints about the smells, affecting living standards and property values.	
Smelly.	
The company has mentioned in "Le Droit" (I guess this is a new paper) that they are putting in place a system to reduce the smell. An evaluation criteria should be that the system shall be operational and clearly demonstrates a reduction of the smell before any authorization is been granted.	Odour has been identified as an evaluation criteria to be applied as part of the Environmental Assessment process. In 2017, GFL initiated a 3-year plan to enhance the landfill gas management system at the EOWHF and substantial improvements in landfill gas odour have been achieved from past operations. Additional gas wells have bee installed, and a second blower skid and a third flare will be installed in 2020, which are anticipated to continue to minimize odours at the site. GFL will continue to undertake measures to minimize the potential for odours from operations.
From the perspective of a region's resident and a 417 user, the main actual issue is the smell. I was surprised it was only very little mentioned on the presentation boards.	Additional information is presented in a Landfill Gas Management handout to outline the work that GFL has undertaken at the site since 2017 to minimize odours, and the additional work that will be undertaken in 2020 to continue to minimize odours from operations. The Fact Sheet has been sent to everyone on the project contact list and posted on the project website.

Comment	Response
Alternatives	
The alternative presented is acceptable in the location presented but it would be very important to maintain the aesthetics of the site because of its location. A tree line should be planted along the whole site so the traffic, visitors to the area would not be able to see the operation.	The potential for visual effects related to the project will be considered as part of the assessment criteria during the Environmental Assessment and potential mitigation measures (e.g., screening) will be considered for any identified visual effects.
Alternative 1 would be the one I choose if I had to choose only because I live directly south and this would slow down the timeline where the landfill would be at its closest.	Comment acknowledged.
With either alternative, the closer the landfill site comes to Hwy 138, expect more noise, odour complaints from users of both Hwy 138 & Hwy 417.	The potential for noise and odour effects associated with the project will be considered as part of the assessment criteria during the Environmental Assessment and potential effects will be assessed relative to regulatory standards.
Alternatives - incinerators should be implemented. No need to upload landfill.	GFL has considered a range of alternatives to the project, including thermal treatment, as part of developing the Terms of Reference. Based on the nature of the wastes typically managed at the EOWHF, GFL has identified that incineration is not a practical or cost effective option for the company and its customers.
Incineration.	
Modernisation - Incinerators.	
Should be going to newer technologies. Burying garbage is old school.	
Consultation	
A committee should be created with the residents of Moose Creek including key members of volunteer groups such as the Chamber of Commerce, Optimist Club, Volunteer Fire Department and Moose Creek Recreation Association. By creating this consultation committee the host community would be involved.	A Community Liaison Committee (CLC) for the EOWHF has been in place since 1999. The CLC includes neighbouring landowners, the Township of North Stormont and the Ministry of Environment, Conservation and Parks. The CLC meets regularly during the year regarding operational matters related to the EOWHF. GFL would be pleased to meet with any interested stakeholders to discuss their specific interest in the project.
Make the information easily available with full transparency.	The materials from Public Open House #1 are available on the project website at: http://gflenv.com/moose-creek-eowhf.
I really would like to get a tour of the facility.	Once the conditions related to the COVID-19 pandemic allow for tours of the facility to be conducted in a safe manner, GFL would be pleased to provide a tour of the facility and will contact the commenter to make the appropriate arrangements.
Basically [the consultation program] follows the procedures followed earlier from 2014-2018. The time frame may be too short especially if there is a repeat of the 2 1/2 years gap before the 2015 Terms of Reference was approved.	Comment acknowledged.
Transportation	
It is too early, but I expect questions regarding the use of the road 700.	A traffic impact assessment study for the local network will be completed as part of the Environmental Assessment.
For current operations, my concern or comment would be about Transportation = amount of traffic going by my house (large trucks, trailers)	
Important to improve road traffic on 138. Possible wider ramps - May review if traffic light is needed.	
Other	
GFL should include a plan to produce Natural Gas for heating in partnership with gas consortium providers and bring this utility to our area.	GFL is investigating a range of options to utilize the surplus landfill gas generated including the production of renewable natural gas.
Very supportive. Job creation and future use of methane gas.	Comment acknowledged.
Concerned of the size of the project and how if we are being affected by the landfill at its current size, how much worst it could get when it's at its maximum.	The rationale for the project will be prepared as part of the Terms of Reference and updated during the Environmental Assessment if appropriate. The size of the project is based on a 20-year planning period with no change to the currently approved annual fill rate. The potential effects of the project will be assessed as part of the Environmental Assessment and mitigation measures necessary to mitigate or minimize the effects will be identified.
Main concern for me is property value. I feel with the increased size of the landfill and potential effects of it will severely impact my property value.	The potential effects of the project will be assessed as part of the Environmental Assessment and mitigation measures necessary to mitigate or minimize the effects will be identified.
It may be advisable that the land adjacent to the 138 be kept apart for future commercial development of potential associated industries e.g., greenhouses.	The alternative concepts for the project will be developed in more detail during the Environmental Assessment. This may include associated business opportunities, although the potential exists for these to be developed in closer proximity to the energy or heat source (i.e., the landfill gas to energy facility).
With the expansion eastwards, it will affect the sod operations of Manderly Sod. It will only leave a small window of opportunity of site preparations for the next area by 2025.	The potential effects of the project on local business like Manderley Sod will be assessed during the Environmental Assessment.
There is obviously needs for landfill capacity in eastern Ontario. The city of Ottawa, for example, has grown extensively over the last 40 years. As more homes are built, there will be competition with pre-existing landfills in Ottawa.	The rationale for the project will be prepared as part of the Terms of Reference and updated during the Environmental Assessment if appropriate. This will consider the need for the EOWHF to continue to provide landfill capacity over the long term.
In the socio-economic report, how many other landfills in eastern Ontario will be closing in the next 5 years and then from 2025-2045.	The rationale for the project will be prepared as part of the Terms of Reference and updated during the Environmental Assessment if appropriate. This will consider the availability of landfill capacity in Eastern Ontario.
Invest in Prescott & Russel (After all we put up with the smell) like before which the funding was used to purchase land in bog and forest Larose - (it's good for public image).	GFL is an active supporter of the local communities in the area of the EOWHF. The company would be pleased to consider future opportunities to continue providing this support in a beneficial and meaningful way to these communities.
For current operations, my concern or comment would be about ecology, ground water, surface water	The potential effects of the project on ecology, ground water and surface water will be assessed during the Environmental Assessment.