

Municipality of Greenstone

Municipal Solid Waste Disposal Plan Environmental Assessment Terms of Reference

DRAFT

Date Submitted
December 21, 2012

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1. Introduction

The Municipality of Greenstone includes the incorporated towns of Geraldton, Longlac, Nakina, and Beardmore, the unincorporated villages of Jellicoe and Caramat, as well as a considerable portion of the unorganized rural area. The Municipality extends more than 200 km along the Trans Canada Highway 11 and covers an area in excess of 3,000 km².

The Greenstone Region is also home to several aboriginal communities, including Aroland, Ginoogaming, Long Lake #58, Sand Point, Rocky Bay, and Lake Nipigon Ojibway.

According to Statistics Canada, in 2011, the Municipality of Greenstone had a population of 4,724 (not including the First Nation Communities).

The Municipality operates four Municipal sanitary landfill sites in the communities of Geraldton, Longlac, Nakina and Beardmore. There are also three municipally operated rural landfill sites owned by the MNR within the municipality at Wildgoose Lake, Camp 25 and Pamela Lake. However, the MNR has closed these sites effective September 30, 2010. The Municipality has not assumed the Certificates of Approval to continue maintaining and operating these sites due to cost prohibitive environmental requirements. Weekly curb-side waste collection services are being provided to residents in these affected areas.

The landfill site in Geraldton was recently found to be out of compliance with the existing Certificate of Approval (C of A) for exceeding both the approved disposal area (waste footprint) and the approved waste volume. The Municipality initiated the Ministry of Environment's Environmental Screening Process in November 2008 with the intention to request an amendment to the C of A with respect to the capacity of the existing landfill. The draft Environmental Screening Report (ESR) was posted to the Municipality's website December 4, 2009 for review and comment. A second notice was posted on October 25, 2012. .

The additional capacity of the landfill, if approved, is estimated to allow the site to operate until Spring 2014.

In light of the recent closures of the MNR landfill sites and capacity issues at the Geraldton landfill, the Municipality recognizes that a long term solution to the management of solid waste is required. The immediate need is to service the community of Geraldton and eventually to service the other communities within the Municipality.

The Municipality is planning to conduct an Environmental Assessment (EA) to review alternative options for municipal solid waste management within the Municipality. The Municipality is currently undertaking a study to develop and receive Ministry of Environment (MOE) approval for a Terms of Reference (TOR) in accordance with the Ontario Environmental Assessment Act. The TOR will establish the framework for conducting the Environmental Assessment.

2. Environmental Assessment Planning Process

This EA process will involve the evaluation of alternatives for the disposal of Greenstone's residual waste, followed by the evaluation of potential sites for the preferred residual waste management alternative (i.e., disposal, treatment or transfer facility).

The process will begin with the preparation of an EA Terms of Reference (TOR). Once approved by the Minister of Environment, the TOR will describe the process to be followed during the EA. Legislation requires that public, Aboriginal community and agency consultation be conducted throughout the EA process, including the development of the TOR.

This TOR has been prepared in accordance with the following sections of the Environmental Assessment Act (EAA):

Terms of reference

6. (1) The proponent shall give the Ministry proposed terms of reference governing the preparation of an environmental assessment for the undertaking. 1996, c. 27, s. 3.

Same

- (2) The proposed terms of reference must,*
- (a) indicate that the environmental assessment will be prepared in accordance with the requirements set out in subsection 6.1 (2);*
 - (b) indicate that the environmental assessment will be prepared in accordance with such requirements as may be prescribed for the type of undertaking the proponent wishes to proceed with; or*
 - (c) set out in detail the requirements for the preparation of the environmental assessment. 1996, c. 27, s. 3.*

Same

(3) The proposed terms of reference must be accompanied by a description of the consultations by the proponent and the results of the consultations. 1996, c. 27, s. 3.

Preparation of environmental assessment

6.1 (1) The proponent shall prepare an environmental assessment for an undertaking in accordance with the approved terms of reference. 1996, c. 27, s. 3.

Contents

- (2) Subject to subsection (3), the environmental assessment must consist of,*
- (a) a description of the purpose of the undertaking;*
 - (b) a description of and a statement of the rationale for,*
 - (i) the undertaking,*
 - (ii) the alternative methods of carrying out the undertaking, and*
 - (iii) the alternatives to the undertaking;*
 - (c) a description of,*
 - (i) the environment that will be affected or that might reasonably be expected to be affected, directly or indirectly,*

(ii) the effects that will be caused or that might reasonably be expected to be caused to the environment, and

(iii) the actions necessary or that may reasonably be expected to be necessary to prevent, change, mitigate or remedy the effects upon or the effects that might reasonably be expected upon the environment,

by the undertaking, the alternative methods of carrying out the undertaking and the alternatives to the undertaking;

(d) an evaluation of the advantages and disadvantages to the environment of the undertaking, the alternative methods of carrying out the undertaking and the alternatives to the undertaking; and

(e) a description of any consultation about the undertaking by the proponent and the results of the consultation. 1996, c. 27, s. 3.

Exception

(3) The approved terms of reference may provide that the environmental assessment consist of information other than that required by subsection (2). 1996, c. 27, s. 3.

3. Identification of the Proponent

The proponent for the TOR and corresponding EA study is:

Municipality of Greenstone
1800 Main Street
PO Box 70
Geraldton, ON P0T 1M0
Tel: (807) 623-9495

Fax:

Email:

Contact:

4. Purpose and Description of the Proposed Undertaking

The purpose of the proposed undertaking is to create a long term (20 to 30 year) plan for the disposal of the Municipality's solid waste. The plan will be created through the Environmental Assessment (EA) process, which will be used to review and screen alternative disposal options for the Municipality.

The Environmental Assessment is required because the Municipality's landfill site in Geraldton Ward could reach capacity by Spring 2014. While the municipality operates three other municipal landfill sites, they do not have sufficient remaining capacity to be a long term disposal solution for the entire municipality. A long term solution for managing the Municipality's solid waste is needed. The Municipality needs to continue servicing the waste disposal needs for the community of Geraldton, with service being extended to the other communities within the Municipality in the long term.

5. Alternatives to be Evaluated

5.1 “Alternatives to” the Undertaking

Table 5.1 describes the alternatives for managing residual waste that will be evaluated during the EA process.

Table 5.1: Alternatives to the Undertaking

Alternative	Description
Thermal Processing	Thermal processing involves the conversion of solid waste to energy, most often through a combustion process. This energy can be captured and used to generate electricity or heat, depending on the process used. While some residual waste would require disposal, this alternative would minimize that amount.
Biological Processing	Biological treatment involves the use of micro-organisms such as aerobic and anaerobic bacteria to break down and stabilize the organic portion of the waste stream. There is the potential to capture biogas in this process, which can be used to generate energy. The residual waste will require landfill disposal.
Landfill Expansion	Expand one or more of Greenstone’s existing landfills to enable it to receive more waste in the future, specifically, all of the Municipality’s residual waste.
Waste Diversion	Waste can be diverted from disposal through waste diversion programs. Waste not diverted will require disposal.
New Landfill	Site a new landfill. Landfilling is one of the most common and readily available used forms of disposing of residual waste.
Export of Waste	If no method of managing Greenstone’s residual waste stream is available within Greenstone’s borders, then waste could be sent to another private or municipal facility for disposal.
Do nothing	Maintain the status quo and continue with current disposal activities.

5.2 “Alternative Methods” for the Undertaking

Once the preferred “Alternatives to” (or combination thereof) have been selected, then sites (or “Alternative Methods”) for the preferred options will be explored. A background report will be prepared confirming the proposed process and its rationale for siting the preferred alternative. The siting requirements will vary depending on the alternative selected.

The site selection process will occur over seven steps. These are outlined in Table 5.2.

Table 5.2: Site Selection Process

Step	Description	Outcome
1	Confirmation of site selection process	Process Document
2	Development of constraint map	Map of potentially suitable areas for sites
3	Refinement of constraint map	“Long list” of candidate sites
4	High level evaluation/comparison of long-list candidate sites	“Short list” of candidate sites
5	Site investigations of short-listed candidate sites	Background site reports
6	Evaluation/comparison of short-listed candidate sites	Preferred site
7	Documentation of site selection process	Site Selection Report

The constraint mapping will help identify areas within the study area that are not suitable for siting the preferred alternative, such as Aboriginal lands, provincially significant natural environments, etc. Once the constraint map has been used to identify suitable areas, it will be refined to identify a long list of candidate properties. The long list candidate sites will be then be evaluated using a high level environmental, social and economic analysis to determine a short list of candidate sites.

Site investigations will then be conducted on the short-list of candidate sites, including natural environment and archaeological investigations. These investigations will provide the background information required to evaluate the short-listed sites, with the intent of avoiding significant areas and reducing the overall environmental impact.

The evaluation of “Alternatives to” could conclude that more than one type of facility is preferred. Should this occur, each facility would undergo a similar site selection process.

6. Existing Environment and Potential Effects

The environment that may be affected by a proposed waste management site for the Municipality of Greenstone is briefly described below. The EA will include a detailed description of the environment within the study area, as well as potential impacts to the environment and recommended approaches to mitigate them.

6.1 Natural Environment

The Municipality of Greenstone is located along Trans-Canada Highway 11 in Northwestern Ontario, 300 km northeast of the City of Thunder Bay. Greenstone is located in the District of Thunder Bay and has an area of 3,172 sq km, making it one of the largest municipalities in Canada.

6.2 Economic

The Municipality of Greenstone was formed in January 2001 by the amalgamation of the Towns of Geraldton and Longlac, the Townships of Nakina and Beardmore, and an extensive area of unincorporated territory that included a number of settlement areas. First Nation communities located within Greenstone’s municipal boundaries include Long Lake 58, Lake Nipigon Ojibway, Rocky Bay and Sand Point. Aroland and Ginoogaming First Nations are located just outside the Municipality.

The largest occupational group in Greenstone is the sales and service group (23% of labour force), followed by trades, transport and equipment operators and related occupations (20%).

The manufacturing industry accounts for the largest percentage (23.5%) of the labour force in Greenstone, followed by the health care and social assistance industry (10.4%).

The main highway infrastructure serving the municipality is Highway 11, which runs east to west and links Greenstone with Hwy 17, Red Rock, and Thunder Bay to the west, and Hearst and Kapuskasing to the east.

Two domestic airports are located in the municipality: one in Nakina and the other in Geraldton. The nearest international airport is the Thunder Bay International Airport.

Both CN Rail and VIA Rail provided service to the municipality. The CN Rail route runs through Caramat, Longlac, and Nakina, while Via Rail provides pick-up and drop-off locations in Longlac and Nakina.

6.3 Social/Cultural

Greenstone’s population in 2012 is estimated to be 4,803. The municipality has an older population compared to the provincial average. The Municipality reports that the percentage of the total population of the ages of 45 to 64 is higher than the provincial average, while the percentages for those aged 20 to 44 is below the provincial average¹.

7. Assessment and Evaluation

7.1 Evaluating the “Alternatives to”

The evaluation of the how to manage the Municipality’s residual waste after diversion (i.e. the “alternatives to” the undertaking) will include a comparison of the advantages and disadvantages associated with each alternative, which will then be considered in an economic, social and environmental analysis. The step-by-step methodology for the “alternatives to” evaluation is described below.

Before the evaluation takes place, the proposed evaluation methodology and the evaluation criteria (see Appendix A) will be reviewed with the public and government review agencies.

¹ Municipality of Greenstone. Greenstone Community Profile 2012. May 2012

Table 7.1: Preliminary Methodology for Evaluation of the “Alternatives to”

Step	Activity
1	The “alternatives to” will be assembled into a range of alternative proposed waste management systems (e.g., landfill, waste-to-energy with landfill, etc), with each system being capable of managing all of the residual waste stream;
2	Data will be collected for use in the evaluation of the alternative proposed waste management systems (the proposed evaluation criteria are included in Appendix A of this EA TOR). Suggested indicators and data sources will be included in the background documents and may be adjusted at the initiation of this EA evaluation based on input received from agencies and the public.
3	The evaluation criteria will be applied to each of the proposed waste management systems and the potential effects identified.
4	For each effect identified under the criteria, potential measures to mitigate the effects will be considered, and the net effects for each criterion identified.
5	The net effects associated with each alternative waste management system will be compared and a list of relative advantages and disadvantages for each alternative will be developed.
6	The ‘alternatives to’ will be ranked based on the advantages and disadvantages of each and in context with the priorities established through the consultation process, and the preferred alternative will be selected.

7.2 Evaluating the “Alternative Methods”

The evaluation of “alternative methods” of carrying out the undertaking will consist of a facility selection process. Site selection will start with a review of the entire study area to identify those areas considered un-constrained from the stand-point of locating a processing and/or disposal facility. These available areas will then be systematically evaluated to identify a long-list of sites, which will then undergo additional screening and comparative evaluation, ultimately resulting in a preferred alternative. This process and selection/evaluation criteria will be reviewed with the public and government review agencies at the outset of this stage.

The step-by-step methodology for the “alternatives methods” evaluation is described in Table 7.2.

Table 7.2: Preliminary Methodology for Evaluation of the “Alternative Methods”

Step	Activity
1	<p>Siting constraints (see Appendix B) will be applied to entire study area. Those lands considered unconstrained for the siting of a processing and/or disposal facility will be identified. Lands within the study area which are constrained by any of the exclusionary criteria would be screened out for the purpose of moving forward in the site selection process.</p>
2	<p>A minimum site size requirement for the type of facility to be sited will be identified based on the preferred alternative selected.</p>
3	<p>A "long-list" of alternative opportunities in the un-constrained lands will be identified through a review of publicly owned lands and the issuance of a request for "willing host" properties. The "long-list" of alternatives will be reviewed to ensure that a reasonable range of alternatives are included on the list.</p> <p>If it is determined that there is not a reasonable range of siting opportunities on the "long-list", then a review of privately-owned lands in the study area would be conducted to identify additional siting opportunities with the same or better attributes than those publicly owned and "willing host" sites on the list. The owners of identified properties would be approached to determine if a negotiated acquisition of the property is feasible. The updated "long-list" would then be reviewed to ensure that a reasonable range of alternatives are included on the list.</p> <p>If at this stage it is determined that there is still not a reasonable range of siting opportunities on the "long-list" then the constraints applied at Step 1 would be reviewed and relaxed in consultation with the public and government agencies. Steps 2 and 3 would be repeated as necessary to obtain a reasonable "long list"</p>
4	<p>A "long-list" site evaluation will be carried out if there are more than three sites remaining after the application of siting constraints and consideration of available siting opportunities. The purpose of this level of evaluation is to remove those sites less likely to be suitable based on specific environmental, economic and social criteria. The proposed "long-list" evaluation criteria are included in Appendix B.</p> <p>The result of the "long list" evaluation will be a "short list" of alternative sites.</p>
5	<p>The "short list" of alternative sites will be evaluated using the triple-bottom line assessment described in Section 7.1 for the evaluation of "Alternatives to". This will result in the identification of a preferred site. The criteria for use in evaluating the "short-list" is included in Appendix B.</p>

8. Commitments to Address Identified Issues and Monitor Effects

During the course of developing and approval of the TOR, a summary of any commitments made and how these commitments are to be met will be prepared and included in the EA. The final EA report will also include a comprehensive list of commitments that were made during the EA process. These may include:

- Measures to manage impacts;
- Additional works and studies to be carried out;
- Monitoring programs/activities;
- Public consultation and contingency planning; and
- Documentation and correspondence.

Over the course of the study and the application of evaluation criteria, potential effects and mitigative requirements will be identified for the proposed undertaking. It is noted that these considerations will be defined based on supporting EA studies. During the EA process, a monitoring framework will be developed that considers all phases of the identified undertaking and may include monitoring to ensure compliance and/or effects on the environment.

9. Consultation Plan for Environmental Assessment

9.1 Stakeholders

Stakeholders to be consulted during the EA process include:

- **Government and Agencies** that represent the interests and mandate of various governmental departments, ministries and agencies potentially affected by the outcome of the EA Study. A Government & Agency Review Team (GART) list has been established for the study and is included in Appendix C.
- **The General Public.** This includes residents, landowners and businesses within the study area that may either have a broad or general interest in the study or may be directly affected by the study outcome. Over the course of the EA TOR development, a contact list of those individuals and groups expressing interest in the study will be compiled. This list will be updated as the study proceeds. The general public will be contacted through the media, the municipality's website, and public notices.
- **Aboriginal Peoples** potentially impacted or interested in the undertaking will be identified through contact with the Ontario Ministry of Environment, Aboriginal Affairs, Aboriginal Affairs and Northern Development Canada, and local bands and tribal councils. All public documents will be circulated to the interested aboriginal groups, including the TOR for their review and comment. All comments will be recorded and addressed in the Consultation Record supporting the EA.

A mailing list is provided in Appendix

9.2 Consultation Activities

The minimum scope of consultation activities for EA study milestones are provided in the table below. The full program for public consultation and engagement will be developed during the initial phase of the EA. A draft consultation plan is attached in Appendix E.

Table 9.2: Minimum Scope of Consultation Activities

Study Milestone	Minimum Scope of Consultation Activities
<ul style="list-style-type: none"> Development of TOR 	<ul style="list-style-type: none"> Notice to stakeholders to launch development of the TOR Open house(s) for the general public, municipal officials/staff Circulation of TOR to Government & Agency Review Team (GART) for comment Project webpage posted on municipal website, including instructions on how to make comment during process Posting of draft and final TOR on project webpage
<ul style="list-style-type: none"> Initiate EA study 	<ul style="list-style-type: none"> Notice of commencement to stakeholders through newspapers, project website, distribution to First Nations and GART
<ul style="list-style-type: none"> Identify “alternatives to” waste disposal options, waste diversion strategies 	<ul style="list-style-type: none"> Open house(s) for general public to learn about/provide input on “alternatives to” Notice of open house to be posted on project website, local newspapers
<ul style="list-style-type: none"> Evaluate “alternatives to” waste disposal and select preferred alternative Evaluate long list of “Alternative methods” (i.e., waste management sites) and reduce to short list 	<ul style="list-style-type: none"> Open house(s) for general public to learn about/provide input on preferred “alternatives to” and on evaluation process for “alternative methods” Notice of open house to be posted on project website, local newspapers
<ul style="list-style-type: none"> Identify short list of “Alternative methods” Evaluate short list of “Alternative methods” and select preferred site 	<ul style="list-style-type: none"> Open house(s) for general public to learn about/provide input on short list of “Alternative methods” and on evaluation process to select preferred site Notice of open house to be posted on project website, local newspapers
<ul style="list-style-type: none"> Complete further site-specific studies to confirm suitability of site and documentation for approvals 	<ul style="list-style-type: none"> On-going liaison/consultation with affected stakeholders
<ul style="list-style-type: none"> EA completion 	<ul style="list-style-type: none"> Notice of completion circulated to First Nations, general public, and GART ESR posted for public review and comment Notices posted on project webpage

9.3 Issues Resolution

Over the course of the study, it is expected that issues will arise that require resolution either before moving from one step to the next or prior to the issuance of approvals. It will be the Municipality of Greenstone's preference to resolve issues as they arise and without the assistance of an outside party. However, should this approach not work the use of a facilitator to negotiate a resolution or use of the EAA's mediation provisions will be considered. It is recognized that unresolved issues could be referred to the Province's Environmental Review Tribunal, which would make a decision on approval of the undertaking, and that unresolved issues could have a bearing on that decision and that conditions of approval could be imposed to deal with certain issues.

10. Modifying the Terms of Reference

While preparing the EA, it may be found that minor modifications to the EA approach outlined in this TOR may be necessary. This could include refinement of the evaluation methodologies, additional studies, changes to the consultation approach, or other changes that are required to address comments from the public, agencies, or Aboriginal groups. Minor modifications will be reviewed by the MOE and affected parties.

11. Other Required Approvals

The EAA and EPA approvals required for each alternative will be identified as appropriate. Also, any further approvals for the preferred undertaking will be identified in the EA. For example, these could include, but are not limited to:

- Federal/Provincial EA coordination;
- Fisheries Act (Department of Fisheries and Oceans);
- Lakes and Rivers Improvement Act (Ministry of Natural Resources);
- Stormwater and leachate management approvals (Ministry of the Environment);
- Permit to Take Water (Ministry of the Environment);
- Certificate of Approval for Air (Ministry of the Environment);
- Certificate of Approval for Noise (Ministry of the Environment);
- Local approvals, such as noise bylaws, road closures, tree removals, site alterations, etc. (local municipality).

While this undertaking is subject to the requirements of the Ontario EA Act, the requirements of the Canadian Environmental Assessment Act (CEAA) may also apply. As a result, the proponent will work in a coordinated way with the provincial and federal governments to satisfy both levels of environmental legislation pursuant to the Canadian-Ontario Agreement on EA Cooperation.

In order to ensure an effective and efficient coordination of the provincial and federal EA processes, a project description will be prepared in a timely fashion for circulation to federal authorities to determine if there is trigger under the CEAA.

The intent is to produce a single EA body of documentation on environmental effects to meet all of the information needs of both the federal and provincial governments. To the extent practical, both federal and provincial information requirements regarding potential issues will be integrated into this EA.

12. Environmental Assessment Report and Submission

An EA Report will be prepared at the conclusion of the individual EA to document the environmental assessment undertaken in accordance with the approved TOR. At a minimum, the EA report will fulfill the requirements set out in subsection 6.1 (2) of the EAA.

A draft of the EA Report will be made available for agency/public review prior to formal submission to the Ministry of the Environment (MOE). The purpose of the pre-submission review is to obtain comments on the contents of the EA report before submitting it formally to the Minister for review and approval.

Once comments from the pre-submission review are incorporated, the EA report will be formally submitted to the Minister for review and approval. The EA report will also undertake a formal public and agency review process.

Appendix A – Preliminary Evaluation Criteria for “Alternatives to the Undertaking”

Table A1: Preliminary Evaluation Criteria for “Alternatives to the Undertaking”

Category	Proposed Evaluation Criteria
Natural Environment	<ul style="list-style-type: none"> • Potential for destruction or disruption of sensitive terrestrial and/or aquatic habitats at an eventual site • Potential air quality and noise impacts of operating facility
Economic	<ul style="list-style-type: none"> • Total system cost • Net system costs per tonne of waste managed • Sensitivity of system costs and affordability to external influences • Legal/contractual risks associated with waste management alternative
Technical	<ul style="list-style-type: none"> • Technical risks associated with waste management alternative • Proven track record of technology to manage waste
Social/Cultural	<ul style="list-style-type: none"> • Potential for land use conflicts for siting of facilities required for alternative

Appendix B – Preliminary Evaluation Criteria for “Alternatives Methods”

Table B1: Preliminary Criteria for Excluding Lands from Consideration for Waste Disposal Site

The following criteria are for those lands **excluded** for consideration for a waste disposal site:

- Designated residential areas and areas within 400m of those designations.
- Designated institutional areas and areas within 400m of those designations.
- Designated Natural Heritage areas and areas within 400m of those designations.
- Class 1 Prime agricultural lands.
- Designated tourism areas and areas within 400m of those designations.
- Park/recreational lands.
- Areas around federally regulated airports as per Transport Canada Guidelines, subject to further discussions with Transport Canada.
- Aboriginal reserves.
- Where possible, areas with less than 1 metre (subject to further consideration) of overburden in the base of the potential landfill.
- Where possible, areas less than 50 metres from a permanent watercourse.
- Land that would prevent the efficient expansion of settlement areas, on sites adjacent or close to settlement areas.
- Land containing significant habitat of endangered species and/or threatened species.
- Land known/identified as a mineral, mineral aggregate or petroleum resource, where development would preclude or hinder their expansion or continued use or which would be incompatible for reasons of public health, safety or environmental impact.
- Lands where there are natural and or/humane made hazards that cannot be mitigated (e.g., flooding, mine hazards, etc).

Table B2: Preliminary Evaluation Criteria for a “Long-List” of Alternative Sites

Preliminary Evaluation Criteria for a “Long-List” of Alternative Sites

- Proximity to required infrastructure (e.g., road network, electricity connection, etc).
- Site accessibility (i.e., distance from major road routes, etc).
- Potential impact of waste transport route.
- Size of property.
- Surrounding/proximate land uses.
- Site availability.
- Proximity of site to certified airports.

Table B3: Preliminary Comparative Evaluation Criteria for “Short-list” of Alternative Sites

<p>Environmental</p> <ul style="list-style-type: none"> • Effects on surface and ground water quality, quantities or flow, including significant sedimentation or soil erosion on or off site. • Effects on rare (vulnerable), threatened or endangered species of flora, fauna or their habitat. • Effects on protected natural areas such as ANSIs, ESAs, designated wetlands, or other significant or locally important natural areas. • Effects on wildlife habitat, populations, corridors and movement. • Effects on fish and their habitat, spawning movement or environmental conditions. • Creation of non-hazardous waste materials requiring disposal. • Creation of hazardous waste materials requiring disposal. <p>Economic</p> <ul style="list-style-type: none"> • Cost of facility (capital, operating). • Potential disruption to businesses along haul routes or in proximity (e.g., noise impacts, traffic, etc). • Effects on recreation or tourism. • Increases to demands on community services and infrastructure. • Effect on use of Canada Land Inventory Class 1-3, specialty crop or locally significant agricultural land. • Bird hazards to airport facilities. <p>Social/Cultural</p> <ul style="list-style-type: none"> • Effect on air quality due to emissions. • Emission of greenhouse gases. • Effects of emission of odours, dust, noise, light pollution. • Effects on neighbourhood or community character. • Potential for aesthetic impacts. • Effect on traffic. • Effect on heritage buildings, structures or sites, archaeological sites or areas of archaeological importance, or cultural heritage landscapes. • Effect on scenic or aesthetically pleasing landscapes or views. • Effect on land, resources, traditional activities or other interests of Aboriginal communities.

Based on “Schedule 1 – Screening Criteria Checklist” from MOE’s *Guide to Environmental Assessment Requirements for Waste Management Projects* (March 15, 2007)

Appendix C – Government and Agency Review Team

Table C1: Government and Agency Review Team (GART)

Local

Municipality of Greenstone, including local Councillors and relevant departments
Planning Boards
School Boards
Utilities (e.g., gas, telephone, cable)
Local Architectural Conservation Advisory Committees

Provincial Agencies and Ministries

Ministry of Agriculture, Food and Rural Affairs (OMAFRA)
Ministry of Tourism (MOT)
Ministry of Culture (MCL)
Ministry of Energy (ENE)
Ministry of the Environment (MOE)
Ministry of Municipal Affairs and Housing (MMAH)
Ministry of Natural Resources (MNR)
Ministry of Northern Development and Mines (MNDM)
Ministry of Transportation (MTO)
Ministry of Community and Social Services (MUSS)
Ministry of Government Services (MGS)
Ministry of Health and Long Term Care
Ontario Energy Board (OEB)
Ontario Secretariat for Aboriginal Affairs

Federal Agencies

Canadian Environmental Assessment Agency
Fisheries and Oceans Canada (DFO)
Transport Canada
Health Canada
Environment Canada (EC)
Indian and Northern Affairs Canada - Specific Claims Branch.
Indian and Northern Affairs Canada - Litigation Management and Resolution Branch
Indian and Northern Affairs Canada - Comprehensive Claims Branch
National Energy Board (NEB)
CN Rail
VIA Rail
Any other potential federal funding agencies

Appendix D – Public Consultation Mailing List: Government Review Agencies and Interest Groups

Public Consultation Mailing List – Government Review Agencies and Interest Groups

GROUP	ADDRESS	DEAR	COMMENT
Ministry of the Environment	Agatha Garcia-Wright Director, Environmental Assessment (Acting) Environmental Assessment and Approvals Branch 2 St. Clair Ave. West Floor 12A Toronto, ON M4V 1L5	Ms. Garcia-Wright	
	Paula Allen, APEP Supervisor Technical Support (Sudbury) Ministry of the Environment 199 Larch Street Suite 1101 Sudbury ON P3E 5P9	Ms. Allen	
	John P. Taylor Director – Thunder Bay Regional Office Ministry of the Environment 3 rd Floor, Suite 331 435 James St. South Thunder Bay, ON P7E 6S7	Mr. Taylor	
	Trina Rawn, District Manager Thunder Bay District Office Ministry of the Environment 808 Robertson St. Kenora, ON P9N 1X9	Ms. Rawn	
	Monika Holenstein, Senior Environmental Officer Thunder Bay District 435 James St. S., Suite 331B Thunder Bay, ON P7E 6S7	Ms. Holenstein	

GROUP	ADDRESS	DEAR	COMMENT
	Ellen Cramm Environmental Resource Planner/EA Coordinator Technical Support (Thunder Bay) 3 rd Floor, Suite 331 435 James St. South Thunder Bay, ON P7E 6S7	Ms. Cramm	
	Carrie Hutchison Environmental Resource Planner/EA Coordinator Technical Support (Thunder Bay) 3 rd Floor, Suite 331 435 James St. South Thunder Bay, ON P7E 6S7	Ms. Hutchison	
	Cindy Batista Project Officer Environmental Approvals Branch Ministry of the Environment 2 St. Clair Avenue West, 14th Floor, Toronto ON M4V 1L5	Ms. Batista	
	Joseph Tyance Senior Advisor, Outreach & Programs Support Aboriginal Affairs Branch Ministry of the Environment, Northern Region 435 James St. S., Suite 331 Thunder Bay, ON P7C 6S7	Mr. Tyance	
Ministry of Natural Resources	Allen Willcocks Regional Director – Northwest Region Ministry of Natural Resources 435 James St. S., Suite 221A Thunder Bay, ON P7E 6S7	Mr. Willcocks	

GROUP	ADDRESS	DEAR	COMMENT
	Phil Couture Area Supervisor, Geraldton - GERALDTON AREA OFFICE Ministry of Natural Resources Ontario Government Bldg 208 Beamish Ave W PO Box 640 Geraldton ON P0T1M0	Mr. Couture	
	Evan Armstrong Biologist - GERALDTON AREA OFFICE Ministry of Natural Resources Ontario Government Bldg 208 Beamish Ave W PO Box 640 Geraldton ON P0T1M0	Mr. Armstrong	
	Melanie Lankin Senior Lands & Waters Technical Specialist (Acting) - GERALDTON AREA OFFICE Ministry of Natural Resources Ontario Government Bldg 208 Beamish Ave W PO Box 640 Geraldton ON P0T1M0	Ms. Lankin	
Ministry of Transportation	Dale Willis Head – OPERATIONAL SERVICES Ministry of Transportation 1st Flr 615 James St S Thunder Bay ON P7E 6P6	Ms. Willis	

GROUP	ADDRESS	DEAR	COMMENT
Ministry of Culture	Andrew Hinshelwood Archaeology Review Officer – Thunder Bay Culture Programs Unit Ministry of Tourism, Culture & Sport Suite 334 – 435 James Street South Thunder Bay, ON P7E 6S7	Mr. Hinshelwood	
MNDM – Ministry of Northern Development, Mines and Forestry	John Guerard Manager - THUNDER BAY AND AREA Ministry of Northern Development and Mines Ontario Government Bldg Suite 332 435 James St S Thunder Bay ON P7E6S7	Mr. Guerard	
Ministry of Municipal Affairs and Housing	Lynn Buckham Regional Director (Acting) - NORTHWESTERN MUNICIPAL SERVICES OFFICE Ministry of Municipal Affairs and Housing Suite 223 435 James St S Thunder Bay ON P7E6S7	Ms. Buckham	
	Murray Armstrong Planner - COMMUNITY PLANNING AND DEVELOPMENT Suite 223 435 James St S Thunder Bay ON P7E6S7	Mr. Armstrong	

GROUP	ADDRESS	DEAR	COMMENT
Ministry of Aboriginal Affairs	Pam Wheaton Director - ABORIGINAL AND MINISTRY RELATIONSHIPS BRANCH - RESOURCE AND ECONOMIC DEVELOPMENT Ministry of Aboriginal Affairs 9th Flr, 160 Bloor St E Toronto ON M7A2E6		
	Wendy Cornet Manager (Acting) - CONSULTATION UNIT Ministry of Aboriginal Affairs 9th Flr, 160 Bloor St E Toronto ON M7A2E6	Ms. Cornet	
Federal Government	Environment Canada 4905 Dufferin Street Toronto, ON M3H 5T4	Sir/Madam	
	Neville Ward Senior Habitat Biologist Fisheries and Oceans Canada 100 Main Street Suite 425 Thunder Bay ON P7B 6R9	Mr. Ward	
	Tom Kleinboeck Fish Habitat Biologist Fisheries and Oceans Canada Northern Ontario District - Thunder Bay Office 100 Main Street, Suite 425 Thunder Bay, Ontario P7B 6R9	Mr. Kleinboeck	

GROUP	ADDRESS	DEAR	COMMENT
	Debra D Taylor Regional Director General, Ontario Transport Canada Regional Director General's Office - Ontario Region 4900 Yonge Street North York, Ontario M2N 6A5	Ms. Taylor	
	Transport Canada Thunder Bay 33 Court Street South Thunder Bay, Ontario P7B 2W6	Sir/Madam	
	Lucy Butts Regional Director General, Ontario Region Health Canada REGIONAL DIRECTOR GENERAL'S OFFICE 180 Queen Street West Toronto, Ontario M5V 3L7	Ms. Butts	
	Canadian Environmental Assessment Agency Place Bell Canada 160 Elgin Street, 22nd Floor Ottawa, Ontario K1A 0H3	Sir/Madam	
	Infrastructure Canada Communications 6th Floor, 90 Sparks Street Ottawa, ON K1P 5B4	Sir/Madam	
First Nations & Métis	Métis Consultation Unit Métis Nation of Ontario Head Office 500 Old St. Patrick Street, Unit D Ottawa, ON K1N 9G4	Sir/Madam	

GROUP	ADDRESS	DEAR	COMMENT
Municipality	Mayor Renald Beaulieu The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Mayor Beaulieu	
	Councillor Jay Daiter The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councillor Daiter	
	Councillor Armand Giguere The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councillor Giguere	
	Councillor Jane Jantunen The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councillor Jantunen	
	Councillor Ron Melhuish The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councillor Melhuish	
	Councillor William Assad The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councilor Assad	

GROUP	ADDRESS	DEAR	COMMENT
	Councillor Chris Walterson The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councilor Walterson	
	Councillor Mary Moylan The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councilor Moylan	
	Councillor Kevin Melanson The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Councilor Melanson	
	Roy Sinclair, CAO The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Mr. Sinclair	
	Brian Aaltonen, Director Public Services The Municipality of Greenstone P.O. Box 70 1800 Main Street Geraldton, ON P0T 1M0	Mr. Aaltonen	
Emergency Service Providers	Ontario Provincial Police (Greenstone) Highway 11 Geraldton, ON P0T 1M0	Sir/Madam	

GROUP	ADDRESS	DEAR	COMMENT
	Stephane Leblanc Superintendent, EMS District Operations Superior North Emergency Medical Services 401 E. Donald St. Thunder Bay ON P7E 5V1	Mr. Leblanc	
	Marc Tousignant Superintendent, EMS Operations Superior North Emergency Medical Services 401 E. Donald St. Thunder Bay ON P7E 5V1	Tousignant	
School Boards	Superior-Greenstone School Board P. O. Bag A - 12 Hemlo Drive Marathon, Ontario P0T 2E0	Sir/Madam	
Railways	Canadian National Railway Company Montreal (Headquarters) 935 de La Gauchetiere St. West Montreal, Quebec H3B 2M9	Sir/Madam	
	Canadian Pacific Railway 1290 central Parkway West Mississauga, ON L5C 4R3	Sir/Madam	
Medical Care	Thunder Bay District Health Unit Main Office 999 Balmoral Street Thunder Bay, ON P7B 6E7	Sir/Madam	

GROUP	ADDRESS	DEAR	COMMENT
	Thunder Bay District Health Unit Geraldton Branch P. O. Box 1360 510 Hogarth Ave., W. Geraldton, ON P0T 1M0	Sir/Madam	
Utilities	Don McClusky Union Gas 1211 Amber Drive Thunder Bay, ON P7A 8B2	Mr. McClusky	
	Bishop Racicot HydroOne 255 Burwood Road P. O. Box 10309 Thunder Bay, ON P7B 6T8	Mr. Racicot	
	Bell Canada 229 Vickers St. S. Thunder Bay, ON P7B 6J9	Sir/Madam	
	Paul Mascarin TBay Tel OPE Specialist TBayTel 1050 Lithium Drive Thunder Bay, ON P7B 6G3	Mr. Mascarin	
Other	Don Gresh Land Representative TransCanada PipeLines Station 68, RR#16 Compressor Station Rd Thunder Bay, ON P7B 6B3	Mr. Gresch	
	Eric Pietsch, President Geraldton District Chamber of Commerce P.O. Box 128 Geraldton, ON P0T 1M0	Mr. Pietsch	

GROUP	ADDRESS	DEAR	COMMENT
	President North of Superior Tourism Association 605 E. Victoria Ave. Thunder Bay, ON P7C 1B1	Sir/Madam	
	Wayne Kaboni, President Longlac Chamber of Commerce P.O. Box 877 Longlac, ON P0T 2A0	Mr. Kaboni	
	Geraldton Area Natural Resources Advisory Committee 208 Beamish Avenue PO Box 640 GERALDTON, Ontario POT 1M0	Sir/Madam	
	Del Isaacs, President Longlac Historical Society P.O. Box 210 Longlac, ON P0T 2A0	Mr. Isaacs	
	Longlac Snowmobile Club PO Box 748 Longlac, ON P0T 2A0	Sir/Madam	
	Longlac Cross-Country Ski Club 104 Forestry Rd. Longlac, ON P0T 2A0	Sir/Madam	
	Geraldton Community Forest Inc. 7 Popowich Dr. Geraldton, ON P0T 1M0	Sir/Madam	
	Greenstone Economic Development Corporation P.O. Box 1018 1409 Main Street Geraldton, ON P0T 1M0	Sir/Madam	

GROUP	ADDRESS	DEAR	COMMENT
	Buchanan Northern Hardwoods Inc 94 Vibert Rd, Thunder Bay, ON P7C 5M9	Sir/Madam	
	Mike Malouf 140140 Richview Road Etobicoke, ON M9A 5C1		
	Dave Koroscil Box 52 Geraldton, ON P0T 1M0		
	Louise Koroscil 369 Balsam St. Thunder Bay, ON P7A 5N9		

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Appendix E – Draft Consultation Plan

Public, Interest Group & Review Agency Consultation

The following points of contact will be made with the public, interest groups and review agencies:

1. **Notice of Commencement**
 - a. Advertised in the local newspaper, Geraldton Longlac Times Star.
 - b. Letter notices delivered via mail to the attached contact list of agencies and interest groups.
 - c. Posted to the project website, www.greenstone.ca.
2. **Notice of Public Meetings** (one public meeting is anticipated for the preparation of the ToR)
 - a. Same as above for Notice of Commencement; and,
 - b. All persons/groups previously expressing an interest in the project will be contacted directly (by mail) for all future correspondence following their expression of interest.
3. **Notice of Submission**
 - a. Same as above for Notice of Public Meetings.

All mailed notices will be delivered approximately 2 weeks prior to public meetings. Newspaper notices will be published in two newspaper publications leading up to the event.

Available information will be posted to the project website in advance of public meetings.

Aboriginal Consultations

Consultation with Aboriginal communities at the Terms of Reference stage is intended to allow the proponent to identify and consider potential concerns and issued of Aboriginal communities and to provide those communities with an opportunity to receive information about an have meaningful input into the development of the ToR. Aboriginal Consultations for this project will be undertaken directly by the Municipality. The following is the Aboriginal consultation plan for the preparation of the Terms of Reference:

- a. Contact the Aboriginal Communities within the Greenstone Area (see attached list), via letter inviting them to meet with Municipal officials to discuss the project. The letter will be followed up by a phone call to schedule a meeting.
- b. Contact, via letter, the remaining Matawa First Nations, all other communities within the Robinson-Superior Treaty area, the Métis Nation of Ontario and the Red Sky Independent Métis Nation notifying them of the project and inviting their comments/queries (see attached list of communities). No specific invitation to a meeting with the Municipality is required. The letter should include details of the formal

- meeting/information sessions that have been offered to the six (6) communities noted in (a) above.
- c. Similar correspondence, depending on the interest of each community, will be made for each phase of the project (i.e. Notice of Commencement, Notice of Public Consultation and the Notice of Submission).
 - d. The correspondence to the Aboriginal communities will precede other correspondences directed at the general public.

Record of Consultation

The consultation activities and their results must be documented in a Record of Consultation for inclusion into the Terms of Reference submitted to the MOE for approval. The Record of Consultation will:

- Identify all persons consulted during the terms of reference preparation and how they were identified;
- Describe the consultation activities which took place (methods, schedule of events, notification that was given about the activity and material used);
- Describe how interested Aboriginal communities were identified and how they were consulted;
- Clearly and accurately summarize the comments made by all interested persons during the preparation of the terms of reference;
- Describe the proponents response and how concerns were considered in the development of the terms of reference;
- Describe any outstanding concerns;
- Include all notification information;
- Include all hand out/display information provided at consultation events;
- Include minutes of any meetings held with interested persons;
- Include copies of written comments received from interested persons.

All comments received and responses to comments will be summarized in a table complete with reference to the where the comments have been addressed in the ToR.

Comments from the General Public will be arranged by type (i.e. comments on water quality will be grouped together). Comments from Agencies/Aboriginal Communities will be organized by agency/community, not by issue type.

Aboriginal Contact List for Direct Consultation

Long Lake #58 First Nation
P.O. Box 609
Longlac, ON
P0T 2A0

Ginoogaming First Nation
P.O. Box 89
Longlac, ON
P0T 2A0

Bingwi Neyaashi Anishinaabek
146 Court St. S.
Thunder Bay, ON
P7B 2X6

Biinjitiwaabik Zaaging Anishinaabek
501 Spirit Bay Road
General Delivery
MacDiarmid, Ontario
P0T 2B0

Animbiigoo Zaagi'igan Anishinaabek
204 Main St.
P.O. Box 120
Beardmore, ON
P0T 1G0

Aroland First Nation
P.O. Box 390
Nakina, ON
P0T 2H0

Aboriginal Contact List for Limited Consultation

Gull Bay First Nation
General Delivery
Gull Bay, ON
POT 1P0

Fort William First Nation
90 Anemki Drive, Suite 200
Thunder Bay, ON
P7J 1L3

Michipicoten First Nation
P.O. Box 1, Site 8, RR#1
Wawa, ON
POS 1K0

Namaygoosisagagun First Nation
195 Park Avenue
Thunder Bay, ON
P7B 1B9

Pays Plat First Nation
10 Central Place
Pays Plat, Ontario
POT 3C0

Pic Mobert First Nation
P.O. Box 717
Mobert, ON
POM 2J0

Pic River First Nation
78 Pic River Rd. Box 193
Heron Bay, Ontario, ON
POT 1R0

Red Rock Indian Band
P.O. Box 1030
Nipigon, Ontario
POT 2J0

Constance Lake First Nation
PO Box 4000
Constance Lake, ON P0L 1B0

Eabametoong First Nation
Eabamet Lake Post Office
Fort Hope, ON
POT 1L0

Hornepayne First Nation
P.O. Box 1553, 274 Front Street
Hornepayne, ON
POM 1Z0

Marten Falls First Nation
General Delivery
Ogoki Post, ON
POT 2L0

Neskantaga First Nation
P.O. Box 105
Lansdowne House, ON
POT 1Z0

Nibinamik First Nation
General Delivery
Ontario
POT 3B0

Webequie First Nation
Box 268
Webequie, ON
POT 3A0

Red Sky Métis Independent Nation
406 East Victoria Avenue
Thunder Bay, Ontario
P7C 1A5

William Gordon, President
Greenstone Métis Council
205 Clarke Ave. PO Box 825
Geraldton, ON
POT 1M0