



City of Sault Ste. Marie

Sault Ste. Marie Solid Waste Environmental Assessment Public Consultation Report (Draft)

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1. Introduction

The Environmental Assessment process is designed to be responsive to comments, issues or concerns that are raised by government agencies, stakeholders, Aboriginal Communities and the general public. A comprehensive public consultation program has been devised to solicit input from a broad cross-section of people and interests, ensure issues are identified as early as possible in the process and provide a means for addressing and incorporating input received.

Within this report we have identified our approach to consultation and the agencies, individuals and Aboriginal Communities that were included on our contact list. Over time the contact list has grown to include additional interested groups and individuals. This report summarizes the details of the consultation activities and events that were completed within the framework of the EA process. We have also included within this report an overview of public consultation activities that were undertaken in conjunction with the City's Waste Management Planning activities that preceded this EA.

2. Consultation Activities

A key objective of the consultation strategy was to solicit meaningful input from review agencies, Aboriginal Communities, stakeholders and the general public each step of the way. We were guided by the following key goals:

- Enhance the quality of the decision making process by capturing ideas and experiences of a broad cross-section of people;
- Ensure transparency in the decision making process;
- Enhance public understanding of the process, and rationale for the decisions reached; and
- Meet legislative requirements.

To meet these goals and objectives various tools and methodologies were utilized as presented in the following subsections.

2.1 Websites

A webpage has been established on the City of Sault Ste. Marie website. This page includes important and relevant planning documentation that was developed prior to initiating the EA together with documentation that has been developed within the framework of the EA process. The site also provides contact information for the Consultant Project Manager and the City's principle contact. The webpage has been updated periodically and updates will continue to be made as the study continues to progress.

Invitations were also extended to neighbouring communities, including Aboriginal Communities, to explore the possibility of including a link to the City's webpage on their community websites with the ultimate goal of enhancing the level of engagement.

2.2 Notices/Newsletters

Notices and Newsletters were used and will continue to be used to invite participation in consultation activities and events and to disseminate important information and project updates. Details of the Notices and Newsletters issued throughout the process are included in Section 3.0 of this report and copies are included in Appendices. There were a total of 7 notices and 5 newsletters issued through to the submission of the DRAFT EA document to the MOECC.

Additional notices are planned as the study progresses into its final stages.

2.3 Public Input Sessions

Public open houses and workshops were undertaken to disseminate project information and solicit input at key milestones or decision points within the process. The events were staged to solicit feedback and input from review agencies, stakeholders, Aboriginal communities and the general public.

The format for the “workshops” included a presentation followed by the formation of focus groups to provide input specifically tailored to the topics and issues being contemplated at the time (eg. evaluation criteria, evaluation methodology, etc.). The workshops were lead by consultant staff with the assistance of Municipal staff. The input was solicited through the completion of “workbooks” by focus groups.

The “open houses” were intended to be less formal and consisted of a series of display panels arranged to guide individuals through the process. The project consultants, with the assistance of City staff ushered individuals or groups of individuals through the presentation materials, explained the contents and addressed questions and issues.

Both formats were used to cater to the preferences of individuals (some prefer a more formal setting while others are more comfortable with a less formal setting and one on one time with consultant or City staff).

The principle objectives of the workshops and open houses were:

- communicate project progress;
- solicit input and feedback;
- enhance the quality of the decision making process by making adjustments as necessary based on the feedback received; and
- enhance understanding of the process and the decisions reached.

A summary report was prepared at the conclusion of each event which documents the issues, questions and concerns raised together with the responses provided.

2.4 Advertising

Advertising for workshops and open houses included a broad range of media to reach as many people as possible. Advertisements and Notices were placed in the local newspapers (Sault Star and Sault This Week), mailed or emailed to all individuals on the project mailing list, posted on the City website and when available included on the community calendar on Shaw Cable 10. Notices and advertisements were also distributed to adjacent communities for posting on Community bulletin boards and websites and/or publishing in their newsletters.

2.5 Input

Feedback was solicited using the following methods:

- Comments sheets;
- Email;
- Questionnaires (online and hard copy);
- Workbooks;

- Discussion groups;
- Open houses;
- Meetings; and
- Presentations.

3. Historical Consultation Activities

A significant level of consultation has occurred within the framework of the EA process and also through the Waste Management Planning activities undertaken by the City from 2000 to 2005 prior to initiating the EA Planning process. We have summarized in Sections 3.1 and 3.2 respectively, the consultation activities undertaken prior to and within the framework of the EA process.

3.1 Waste Management Planning Consultation Activities (2000-2005)

In September of 2000 the City set out to develop a comprehensive waste management plan to guide the future management of municipal solid waste. The study was largely initiated to address the City's low waste diversion rate and the diminishing waste disposal capacity at the City landfill on Fifth Line.

A series of studies were undertaken to assess existing waste management programs/services and identify potential system enhancements. Some of the key reports that were produced through these planning initiatives are described below and the full text is accessible on the City's Waste Management EA webpage.

Current Waste Management System Summary Report (September, 2000) - Inventoried and summarized current (i.e. 1999) waste management programs including costs and revenues.

Alternative Waste Diversion/Collection Systems Report (June, 2001) - Identified alternative waste diversion programs and the quantities that could potentially be diverted.

Business and Implementation Plan (February, 2003) - Identified costs of the existing and proposed waste management programs and explored strategies to recover those costs (bag limits, bag fees, increased tipping and gate fees).

The City recognized the importance of focusing their initial efforts to enhance 3Rs (reduce, reuse, recycle) through system enhancements and more equitable user fee structures that would support the diversion efforts.

Although not specifically required or mandated, the City felt it was important to engage the public in the process and solicit their input and feedback. The consultation activities undertaken throughout the early 2000's in conjunction with the planning work are summarized in the following paragraphs.

On September 26, 2001 a Public Open House was held from 3:00 p.m. to 7:00 p.m. to present information to the public on the alternative waste diversion systems developed for the City of Sault Ste. Marie. In total, 23 people signed into the meeting and 16 questionnaires were received.

In summary, the results of the questionnaires were as follows:

- all 16 respondents felt waste management was an important issue facing the City;
- all 16 respondents currently use their blue box and 15 would like to be able to put more materials in the blue box;
- 11 respondents would like more information on how and what can be recycled;

- 15 respondents felt that it was important to recycle more material even if it cost slightly more;
- 14 respondents currently utilize backyard composters;
- 11 respondents felt that backyard composting was the best option to manage organic waste with curbside pickup of organic waste to a central facility the second preference;
- 4 respondents had used the household special waste depot, with 11 planning to;
- 14 respondents felt that waste management services should be paid through a fee based on the amount of garbage generated;
- 15 respondents felt businesses should pay the full cost of disposing their waste;
- 15 respondents felt System 5 (Collection and Composting of Organic Wastes) was the preferred way to manage the City's waste while 11 thought System 4 (Recycling of Expanded Materials) was the second preference;
- System 1 (Status Quo) was the least preferred of all the systems;
- 9 respondents indicated landfill mining as the preferred option for disposal, followed by landfill expansion;
- incineration and export of waste to the United States were the least preferred disposal options.

On March 18 and 19, 2003, Public Open Houses were held at the John Rhodes Community Centre and Korah Collegiate to present information to the public on the Solid Waste Management Plan and, in particular, the alternative user pay options being considered. In total, 29 people signed into the meetings and 29 questionnaires were received.

In summary, the results of the questionnaires are as follows:

- all 29 respondents felt waste management was an important issue facing the City;
- 58 percent of the respondents had between 3 and 5 people living in their house;
- 62 percent of the respondents put out 2 or 3 bags of garbage a week;
- 100 percent of the respondents used the yellow and blue boxes on a regular basis;
- 72 percent of respondents reduced the number of large garbage bags produced by one through the blue and yellow box program;
- 57 percent of the respondents support a city-wide composting program;
- 90 percent of the respondents preferred to pay for waste management services through a user fee instead of an increase in property taxes;
- 54 percent of the respondents ranked the following user fee scenario as preferred:
 - 2 bag limit; fee for each bag in excess of that limit;
 - increase gate fee to \$4.00 in 2003;
 - increase landfill tipping fees to \$65.00/tonne by 2006;
- 92 percent of the respondents ranked the following user fee scenario as the least preferred:
 - increase property taxes by \$40.00 - \$50.00 per household in 2003;
 - leave gate fee at \$2.00/visit;
 - leave tipping fee at \$27.50; and
- 76 percent of respondents felt businesses should pay full cost of disposing of their garbage.

Public Open Houses were conducted to discuss and review the DRAFT terms of Reference document for the Waste Management EA on **July 3, 2003 and July 13, 2004** respectively. A total of 8 and 5 individuals attended the open houses respectively. The feedback received through the open houses is summarized below:

Based on the three completed questionnaires that were received, the Criteria Groups that were ranked the highest importance were ground water, surface water, design and operations and biology/forestry. Groups that were ranked the lowest included archaeology, heritage and social. Input provided on the individual criteria groups is summarized as follows:

- Hydrogeology – mining and lining the old site could improve groundwater quality;
- Design/Social – potential for more noise especially if an expansion is vertical and increased air emissions including methane and carbon dioxide from operating machinery;

- Surface Water – proximity to Canon Creek and Root River;
- Transportation – safety with trucks turning left off of Great Northern Road onto Fifth Line;
- Mining – the availability of aggregate to cover the waste;
- Cost/Social – impacts to property owners and property values associated with property acquisition for an expansion.

Other comments included:

- Minimizing environmental impact while maintaining economic viability is critical to success; and
- Energy should be focussed on waste reduction to increase the longevity of the landfill site.

In addition to the foregoing, consultation was also undertaken with Aboriginal communities. Additional details regarding these consultation events and the Aboriginal consultation are included in Appendix A.

3.2 Waste Management Environmental Assessment Consultation Activities (2006 to 2016)

The consultation activities completed within the context of the EA process are summarized below in chronological order. The correspondence and reporting referenced below was prepared by the Consultants on behalf of the City of Sault Ste. Marie and the meetings referenced below were attended by the Consultant and/or City staff members. Detailed documentation related to each Public Consultation Event is included in Section 4.0 and copies of relevant documents referenced below are included in Appendix B.

- A comprehensive **project contact list** was developed in October 2006 to reflect the views of a broad cross-section of the community including businesses, tourism groups, environmental groups/interests, educators, politicians and Aboriginal Communities. This contact list has been and will continue to be updated throughout the project.
- **Notice of Commencement of the EA** was placed in the local newspaper, posted on the City web site and mailed to those on the project mailing list.
- **Newsletter No. 1** (October 2006) providing information on the EA process, contact names and next steps was mailed to all individuals on the project mailing list.
- **Letters** were mailed in January, 2007 to Aboriginal Communities (ie. Batchewana First Nations and Garden River First Nations) requesting to meet to discuss consultation strategies.
- **A Meeting** was conducted on March 19, 2007 with Batchewana First Nations to update the Chief on the EA status and to solicit input on a preferred consultation strategy.
- **A Letter** dated March 21, 2007 was issued to Garden River First Nation confirming attendance at Band Council meeting and identifying a possible consultation strategy.
- **A Meeting** was conducted on March 26, 2007 with a representative of the Missanabie Cree to update them on project progress and discuss outreach to their members.
- **A Meeting** was conducted March 26, 2007 with a representative of the Métis Nation of Ontario to update them on project progress and discuss outreach to their members.

- **Attended** Garden River First Nation Band **Council meeting** on April 3, 2007 to update Council on the status of the EA and discuss consultation strategies and opportunities for First Nation members to provide input.
- May 17, 2007 **correspondence** to Batchewana First Nation requesting permission to conduct a consultation event in their community or to work together on a consultation strategy.
- June, 2007 – **advertisements** were posted/issued in advance of the June 26, 2007 Public Input session. This included distribution of hardcopy and digital notices to all Aboriginal communities. We also requested ideas on other effective means of outreach.
- June 15, 2007 – follow-up **correspondence** to Aboriginal community leaders/staff requesting that previously issued Notices be posted in prominent locations in their communities. In the case of Garden River First Nation and Batchewana First Nation, we also requested permission to conduct a separate event in their communities.
- A **Public Input Session** was held on June 26, 2007 to obtain input on the alternatives being considered and the evaluation criteria as presented in the “Alternatives To” Working Draft. The Session was advertised in local newspapers and on the City web site and notices were distributed to those on the project mailing list. Copies of the notice were also forwarded to adjacent communities or community groups (ie: Batchewana First Nation, Garden River First Nation, Prince Township, Métis Nation of Ontario, and Missanabie Cree) for posting on their websites and in prominent locations within their communities. Prior to the session, two working papers (“Waste Quantity Projections and Existing Environment Profile” and “Alternatives to the Undertaking”) were made available for review at public libraries, municipal offices, First Nations offices and the City web site. Ten (10) participants recorded their names on the sign-in sheet for this event (refer to Section 4.1 of this report for additional details on the public input session).
- June 27, 2007 – issued the public input session **presentation slides** to Prince Township and Sault Ste. Marie Region Conservation Authority for broader distribution of project information.
- June 27, 2007 – **correspondence** to Batchewana First Nation and Garden River First Nation thanking them for participating in the June 26, 2007 Public Input Session and requesting to meet to coordinate a separate consultation event in their community. Also forwarded the public input session project presentation slides for broader distribution of project information.
- July 3, 2007 – advised Indian and Northern Affairs Canada (INAC) of the **consultation** being undertaken with First Nation communities.
- July 6, 2007 – **correspondence** issued to Batchewana First Nation requesting a meeting to discuss consultation strategies.
- July 11, 2007 – **correspondence** to Ontario Realty Corporation (ORC) updating them on the status of the EA.
- July 19, 2007 – confirmed that a **Public Input Session** would be conducted in Garden River First Nation.
- July 31, 2007 – **met** with Batchewana First Nation Chief and staff to confirm the preferred consultation strategy. The Chief noted that Batchewana First Nation will proceed with a community brainstorming

session and forward feedback to the City by the end of September, 2007. The Chief confirmed that no representation from the City or Consultant is required.

- A **Public Input Session** was held on August 9, 2007 in Garden River First Nation to obtain input on the alternatives being considered and the evaluation criteria as presented in the “Alternatives To” Working Draft. The Session was advertised in the local newspapers, Garden River First Nation newsletter, the City and Garden River First Nation web sites and the changeable message sign in front of the Garden River Community Hall. Notices were also posted in prominent locations in the Community. Prior to the session, two working papers (“Waste Quantity Projections and Existing Environment Profile” and “Alternatives to the Undertaking”) were made available for review at public libraries, municipal offices, First Nations offices and the City web site. Five (5) participants recorded their names on the sign-in sheet for this event (refer to Section 4.2 of this report for additional details on the public input session).
- August 13, 2007 – **correspondence** to Batchewana First Nation thanking them for the July 31, 2007 meeting and confirming that input will be received within a 4 week timeframe. Also noted that a Public Input Session was conducted in Garden River First Nation and offered to conduct a similar event in Batchewana First Nation.
- August 27, 2007 – **touched based** to see how the August 21, 2007 Batchewana First Nation Band Council meeting went and offered our assistance.
- September 11, 2007 – **touched based** for an update on the Batchewana First Nation brainstorming session and to offer our assistance.
- September 26, 2007 – Batchewana First Nation staff confirmed that a staff report with recommendations was submitted to council on August 22, 2007 – to date Council has not taken any action.
- October, 2007 – January, 2008 – **correspondence** with Enquest Power soliciting their input.
- November 9, 2007 – **requested an update** from Batchewana First Nation Chief and staff. Offered our assistance to solicit community input.
- January 22, 2008 – **correspondence** with Batchewana First Nation identifying schedule constraints and our commitment to assist in soliciting input from community members.
- October 24, 2008 – **correspondence** with Batchewana First Nation Chief requesting an update on their input and offering our assistance.
- December 12, 2008 – **correspondence** with Batchewana First Nation indicating we will be proceeding with the next phase of the process soon.

There was a significant time period between the consultation activities noted above and the resumption of activities in May, 2010. The reasons for this gap are summarized in the following paragraphs.

In 2004, Elementa (formerly Enquest Power – a waste-to-energy vendor) initiated discussions with the City of Sault Ste. Marie to gain support for a pilot scale energy-from-waste facility in Sault Ste. Marie. A small private sector pilot scale facility (maximum 3 tonnes/day) was constructed in 2006-07 and operational testing was completed in 2007-08. Elementa subsequently approached the City to endorse a waste supply agreement to allow construction of a larger commercial demonstration facility.

During the timeline from January 2009 until May 2010 there were no significant EA activities undertaken. City Council felt it was important to allow time for the Elementa pilot project to mature and to bring clarity to the role Elementa may play in the City's overall waste management plan prior to moving forward with the Environmental Assessment work.

In October, 2009 the City endorsed an agreement with Elementa to supply a portion of the City's waste to Elementa over a minimum period of ten years. The City's endorsement of a waste supply agreement brought clarity to the role Elementa may play in the City's overall waste management plan. The City subsequently made a decision to resume with the EA process.

Several staff reports (ie. August 18, 2008, June 8, 2009, and October 26, 2009) relating to Elementa and the EA process were tabled at Council meetings and form part of the public consultation record (refer to Appendix B).

The public consultation activities listed below were undertaken once the EA process resumed in 2010:

- **Newsletter No. 2** (May 2010) inviting individuals to the June, 2010 Public Open House and updating them regarding the EA process, the City's contractual relationship with Elementa, results of the "Alternatives To" evaluation, the level of diversion being achieved, next steps in the process and project contact names was mailed to all individuals on the project mailing list.
- **A Notice of Public Information Centre** was distributed to adjacent communities, Aboriginal Communities and those on the project mailing list and published in local newspapers, Shaw Cable 10 and the City web site.
- **Correspondence** was issued on May 21, 2010 to Garden River First Nation, Batchewana First Nation, Metis Nation of Ontario, Missanabie Cree and Prince Township advising of the June 3rd public information centre. Notices were provided for posting in their communities and on community websites. An offer was also extended to have consultant staff post the notices in their communities. A meeting with Band Council was also requested to update them on the project status.
- Received **correspondence** dated May 27, 2010 from the Environmental Assessment Co-ordinator for the Ontario Region of Transport Canada outlining requirements for approval under the Navigable Waters Protection Act and Railway Safety Act.
- **Correspondence** dated May 28, 2010 confirming attendance at a Garden River First Nation Band Council meeting to solicit input and update them regarding project progress.
- A **report** to City of Sault Ste. Marie Municipal Council was tabled at the May 31, 2010 Council meeting. The report identified the preferred "Alternative To", advised of the June 3, 2010 public information centre and provided a summary, in chronological order, of the waste management work and accomplishments from 2000 to present.
- A **Public Information Centre** was held on June 3, 2010 in the Thompson Room at the Civic Centre. The session provided a forum for interested individuals, agency representatives, and stakeholders, to obtain updated information regarding waste management planning, gain an understanding of the Environmental Assessment process, review the results of the "alternatives to" evaluation, identify the next steps in the process and have questions answered. The Session was advertised in local newspapers, Shaw Cable 10 and the City web site and notices were distributed to those on the project mailing list. Copies of the notice were also forwarded to adjacent communities or community groups (ie: Batchewana First Nation, Garden River First Nation, Prince Township, Metis Nation of Ontario, and Missanabie Cree). Ten (10) participants recorded their names on the sign-in sheet and the total participation is estimated to be in the range of 20 people (refer to Section 4.3 of this report for additional details on the public input session).

- **Attended** the June 8, 2010 Garden River First Nation Band Council meeting to make a presentation. We updated Band Council regarding the project progress including the selected preferred “Alternative To” and talked about the environmental management features at the existing City landfill.
- Received **correspondence** dated June 15 from the Ontario Realty Corporation indicating their organization is interested in any potential impacts to ORC-managed property. ORC requested mapping showing the project location to confirm whether ORC has any properties in the vicinity of the proposed project.
- June 24, 2010 - **correspondence** with Batchewana First Nation Chief and staff advising of the Band Council meeting AECOM and City staff attended with Garden River First Nation and offering to complete a similar presentation in their community. We also requested feedback on the brainstorming session that was scheduled to be undertaken in 2007.
- June 25, 2010 - **correspondence** with Caroline Barry of Garden River First Nation thanking GRFN for allowing the team to attend the June 8th Band Council meeting and advising that further comments can continue to be provided to the project team. A copy of our meeting report was also included with the correspondence.
- Issued a **response** to a resident’s questions on June 23, 2010. We summarized the planning and EA reports and studies that have been completed to date and directed the individual to the City’s Waste Management EA webpage. We also addressed the project timelines, 3R’s initiatives/efforts in the City, the preferred “Alternative To” and the role that Elementa may play in the City’s future waste management system.
- **Met** with Sue Chiblow of the Chiefs of Ontario on July 28, 2010 to discuss the status of the EA and environmental controls at the existing landfill. The meeting was undertaken at the request of Garden River First Nation Band Council. We also requested Sue’s ideas on the best approach to solicit input from community members.
- The City’s Waste Management EA **webpage** was refreshed in August 2010.
- Issued a **response** to Elementa’s questions on August 16, 2010. We explained the rationale for the inclusion of “High Heat Processes” as an “Alternative To” and referenced the detailed evaluation that is included on the City’s webpage. We also highlighted the preferred “Alternative To” and the role Elementa is expected play in the City’s overall waste management plan.
- September 24, 2010 - **issued** July 28th meeting report and Public Consultation Plan to Sue Chiblow.
- January 21, 2011 – **issued** the most recent project schedule to Sue Chiblow and advised of the upcoming Alternative Methods – Step 1 workshop.
- **A Newsletter** (April 2011) providing information on the EA process, the City’s contractual relationship with Elementa, results of the “Alternatives To” evaluation, next steps in evaluating a new landfill versus a landfill expansion, details of the April 19, 2011 Public Input Session, and different avenues to provide input was distributed to those on the project mailing list.
- **Notice of Public Information Centre** was published in local newspapers, Shaw Cable 10 and the City web site.
- **Correspondence** was issued on April 8, 2011 to Garden River First Nation, Batchewana First Nation, Prince Township, Metis Nation of Ontario and Missanabie Cree advising of the April 19th public information centre. Notices were provided for posting in the communities and on community websites. An offer was also extended to meet with Batchewana and Garden River First Nation Band Councils.

- The City's Waste Management EA **webpage** was refreshed in April 2011.
- A **Public Workshop** was held on April 19, 2011 in the Russ Ramsay Room at the Civic Centre. The session provided a forum for interested individuals, agency representatives, and stakeholders, to obtain updated information regarding waste management planning, gain an understanding of the Environmental Assessment process, review and provide comments and input on the Step 1 evaluation of a new landfill versus a landfill expansion. The Session was advertised in local newspapers, Shaw Cable 10 and the City web site and notices were distributed to those on the project mailing list. Copies of the notice were also forwarded to adjacent communities or community groups (ie: Batchewana First Nation, Garden River First Nation, Prince Township, Metis Nation of Ontario, and Missanabie Cree. Refer to Section 4.4 of this report for additional details on the public input session.
- Received **correspondence** dated May 5, 2011 from the Ministry of Tourism and Culture. They noted an interest in the conservation of cultural heritage resources including archaeological resources, built heritage resources and cultural heritage landscapes.
- **Spoke** to Danny Sayers, Natural Resource Manager for Batchewana First Nation on May 11, 2011. He confirmed that he would be the lead contact on behalf of Batchewana First Nation and suggested that we offer to make a presentation to Band Council.
- **Correspondence** was issued on May 11, 2011 to Batchewana First Nation Chief and Council summarizing the key milestones and requesting a meeting with Chief and Council.
- **Correspondence** was issued on May 27, 2011 to local resident addressing several questions that he had raised.
- **Correspondence** was issued on September 6, 2011 to Infrastructure Ontario advising that we will keep them apprised as the project progresses.
- **Correspondence** was issued on February 3, 2012 to Elementa Group advising of the project status and requesting feedback on the planning and implementation schedule for their Energy-from Waste facility.
- **Correspondence** was issued on February 22, 2012 to Garden River First Nation, Batchewana First Nation and Prince Township advising of the proposed March 6th public input session. The letter included updates on the status of the project and Notices were provided for posting in the communities and on the community websites. An offer was also extended to meet with Band Council to update them on the project status.
- **Visited** Batchewana First Nations on February 22, 2012, and dropped off the Solid Waste Management Environmental Assessment Alternative Methods – Step 2 (Identification and Comparison of Expansion Options) Draft Working Paper and Notices of the upcoming Public input Session for posting within the Community. Also **spoke** to Danny Sayers and reiterated that Batchewana community members are welcome to attend the upcoming Public Input Session and extended an offer to meet with Band Council and/or conduct an open house in their community.
- **Visited** Garden River First Nations on February 22, 2012, and dropped off the Solid Waste Management Environmental Assessment Alternative Methods – Step 2 (Identification and Comparison of Expansion Options) Draft Working Paper and Notices of the upcoming Public input Session for posting within the Community. Also **spoke** to the Band Office receptionist and explained that community members are welcome to attend the upcoming Public Input Session and extended an offer to meet with Band Council and/or conduct an open house in their community.

- **Correspondence** was issued on February 23, 2012 to Sue Chiblow advising of the March 6th public input session. A newsletter was provided and activities undertaken with Garden River First Nation were reported.
- A **Public Information Centre** was held on March 6, 2012 in the Russ Ramsay Room at the Civic Center. The principle objective of the Step 2 Alternative Methods consultation task was to obtain feedback from the general public, agencies, Aboriginal Communities and stakeholders regarding the evaluation criteria and the preliminary results. To assist in soliciting as much input as possible, a questionnaire was developed to provide targeted feedback and a comment sheet was made available to provide general comments. The Session was advertised in local newspapers and on the City web site and notices were distributed to those on the project mailing list. Copies of the notice were also forwarded to adjacent communities or community groups (ie: Batchewana First Nation, Garden River First Nation, Prince Township, Metis Nation of Ontario, and Missanabie Cree). Local media also raised awareness of the event through relevant news articles. A total of seventeen (17) individuals recorded their names on the sign-in sheet (refer to Section 4.5 of this report for additional details on the public input session).
- Issued a **response** on May 18, 2012 to a local resident addressing concerns related to the safety of his drinking water supply. Our response highlighted the leachate management controls, groundwater monitoring system and annual reporting completed for the existing site, and described the preferred expansion option and the proposed leachate management controls for the expanded site. Consideration of the safety of his drinking water supply will be investigated in detail in the next phase of the project (ie. impact assessment for the preferred expansion option).
- Issued a **response** on May 16, 2012 to a local resident addressing questions raised regarding the depth of monitoring wells and the leachate collector along the south perimeter of the existing site.
- Issued a **response** on June 6, 2012 to a local resident addressing various questions and concerns including potential groundwater quality impacts, risk mitigation, waste-to-energy and composting regulations.
- **Correspondence** was issued on January 20, 2016 to Garden River First Nation, Batchewana First Nation, Prince Township, Metis Nation of Ontario and Missanabie Cree advising of the February 9, 2016 public information centre. The letter included updates on the status of the project and digital copies of the Notice, Newsletter, Comment Sheet and public information center displays. Communities were encouraged to disseminate the information within their respective communities. An offer was also extended to meet with Aboriginal Communities to update them on the project status.
- A presentation was made in open Council on February 8, 2016. The presentation was televised locally and included an overview of the EA process, the EA tasks and activities completed to date, the results of the impact assessment for the preferred landfill expansion option and the next steps. It also provided an opportunity to address questions from councillors.
- A **Public Information Centre** was held on February 9, 2016 in the Russ Ramsay Room at the Civic Centre. The session provided a forum for interested individuals, agency representatives, Aboriginal Communities and stakeholders, to obtain updated information regarding waste management planning, gain an understanding of the Environmental Assessment process, review and provide comments on the results of the impact assessment work for the preferred option, have questions answered and consider the next steps in the process. The Session was advertised in local newspapers, Shaw Cable 10 and the City web site and notices were distributed to those on the project mailing list. Copies of the notice were also forwarded to adjacent communities or community groups (ie: Batchewana First Nation, Garden River First Nation, Prince Township, Metis Nation of Ontario, and Missanabie Cree). Nine (9) participants recorded their names on the sign-in sheet (refer to Section 4.6 of this report for additional details on the public input session).

- Issued a **response** on March 21, 2016 to a local resident addressing various questions including pay-as-you-throw programs, source separated organics/backyard composters, bi-weekly waste collection and clear bags. In addition we provided a comprehensive summary of 3R's initiatives that are integral to the City's waste management plan.
- Issued a **response** on March 21, 2016 to a local resident summarizing the 3R's initiatives that are integral to the City's waste management plan. We also addressed a question regarding the status of the local waste-to-energy project that is being undertaken by the private sector proponent in parallel to the waste EA.
- **Contacted** Batchewana First Nation (Danny Sayers) as a follow-up to the correspondence issued in January 2016 and left a message for him.
- **Met** briefly with representatives of the Metis Nation of Ontario on April 5, 2016 to provide an overview of the project and next steps to engage them in the process. It was noted that we have met with local representatives in the past and have continued to deliver project information and updates to them throughout the course of the study. They explained that the process has changed, and a consultation committee has been formed. Jesse Fieldwebster requested that information be forwarded to the Committee for their consideration.
- Issued an **email** to Jesse Fieldwebster on April 11, 2016 which summarized the work completed to date and the current status of the project. The email attachments included the most recent project newsletter, and the displays that were made available at the February 9, 2016 Public Open House.
- Received a **request** from Jesse Fieldwebster to meet with and present project details to the MNO Consultation Committee. A meeting was coordinated for April 22, 2016 in Sault Ste. Marie.
- Issued a follow-up email to Gerry Lesage (Band Councillor responsible for Business Entities, Natural Resources and Lands, of Garden River First Nation on April 13, 2016 as a follow-up to the earlier phone call and submission made in January 2016. It was noted that we look forward to hearing back from them if there is an interest in the project.
- Issued a follow-up **email** to Danny Sayers on April 14, 2016 as a follow-up to the earlier phone call and submission made in January 2016. It was noted that we look forward to hearing back from them if there is an interest in the project.
- **Met** with the MNO Consultation Committee on April 22, 2016. The format for the meeting included a presentation made by Jesse Fieldwebster which provided insight into the historical evolution of the Metis people and their political structure. Rick Talvitie delivered a presentation which focussed on the existing landfill site disposal operations, leachate management controls and reporting, and the Waste Management EA project need, alternatives to the undertaking, alternative methods and impact assessment work and proposed mitigation measures. The proposed leachate management and surface water management enhancements were summarized.
- Issued a follow-up **email** to Cathy Clement of the Missanabie Cree on May 4, 2016 as a follow-up to the submission made to Chief Gauthier in January 2016. It was noted that we look forward to hearing back from them if there is an interest in the project.

4. Public Input Sessions

4.1 June 26, 2007 Public Input Session – Input on “Alternatives To” and Evaluation Criteria

A public input session was conducted on Tuesday June 26, 2007 in the Russ Ramsay Boardroom of the Sault Ste. Marie Civic Centre. The session provided a forum for interested individuals, Aboriginal representatives, agency representatives, and property owners, to discuss the “alternatives to” the undertaking and criteria that will be used to compare and select a preferred approach to manage solid waste in Sault Ste. Marie, Prince Township and Batchewana First Nation’s Rankin Reserve. The meeting format included a presentation followed by facilitated discussions regarding the alternatives and the evaluation criteria.

Representatives of the Consultant team and the City of Sault Ste. Marie were in attendance throughout the session to provide information, address questions, and facilitate discussions. The information session was open from 6:00 p.m. to 9:00 p.m. with a total of 10 individuals recording their names on the sign-in sheet.

Notification of the Open House (copy included in Appendix C)

The Open House was advertised as follows:

- Sault Star on June 16 and June 23, 2007;
- Sault This Week on June 20, 2007;
- Community Channel for 10 days;
- City of Sault Ste. Marie website;
- Hardcopies and a digital copy of the notice were also forwarded to adjacent communities or community groups (ie: Batchewana First Nation, Garden River First Nation, Prince Township, Metis Nation of Ontario, and Missanabie Cree) for posting on their websites and in prominent locations within their communities; and
- Individual notices were mailed to property owners abutting the project and to all individuals and agencies that had expressed an interest in Waste Management EA.

Information Available to Participants

Two working papers were issued and made available for review in advance of the session which characterized the study area and provided information on waste quantities, the alternatives to the undertaking and the evaluation criteria. These papers entitled “Waste Quantity Projections and Existing Environment Profile” and “Alternatives to the Undertaking” were also available at the session.

These reports were made available for review at the following locations prior to the public input session:

- AECOM’s office;
- Civic Centre Engineering and Planning;
- Public Works and Transportation;
- Main Library;
- Churchill Branch Library;
- Korah Branch Library;
- Township of Prince Municipal Office;
- Batchewana First Nation;
- Garden River First Nation;
- Local Metis Nation of Ontario Office; and
- Local Missanabie Cree Office.

The reports were also available on the City of Sault Ste. Marie website.

A Participant's Workbook was also posted on the City's website and distributed at the session to provide individuals with an opportunity to record their ideas and opinions relating to the alternatives and the proposed evaluation criteria.

At the onset of the session a presentation was made to report on recent successes with diversion and to provide an overview of the alternatives being considered and the evaluation criteria being proposed. Displays were also posted on the walls to disseminate information to any individuals that missed the initial presentation. The following displays were posted on the walls (refer to Appendix C):

- A display welcoming residents;
- Meeting Format;
- Objectives of the Meeting;
- Historical Overview of the Waste Management Planning Process;
- Waste Management Services provided by the City;
- Other Recycling Opportunities provided in the City;
- Historical Overview of Waste Quantities Landfilled;
- Historical Overview of the Residential Waste Diversion Rate;
- Composition of Waste Landfilled;
- Project Need;
- What is an EA?;
- Overview of the EA Process
- "Alternatives To" being considered;
- Overview of the Increased Waste Diversion Alternative;
- Overview of the Incineration/High Heat Process Alternative;
- Overview of the Landfill Alternative;
- Overview of the Export Waste Alternative;
- Overview of the Evaluation Criteria;
- Next steps to be undertaken in the process; and
- Proposed Project Schedule.

Comments and Questions

The following comments/questions were raised during the presentation portion of the meeting.

Table 1 JUNE 26, 2007 PIC QUESTIONS AND RESPONSES	
Questions	Response
Where would the hazardous waste from an incinerator go?	It would need to be taken to a hazardous waste facility near Sarnia or other suitably licensed site.
How big a landfill would be needed?	Based on the projections, a landfill that could accommodate approximately 2.7 million tonnes would be needed. A typical footprint for a 2.0 million tonne landfill would likely be in the range of 20 Ha.

Table 1
JUNE 26, 2007 PIC QUESTIONS AND RESPONSES

Questions	Response
Have you considered population in your waste quantity disposal projections?	Yes, the waste quantity projections are based on population projections done by another consultant. The total estimated Sault Ste. Marie population in 2046 is nearly 86,000 (Note: the City Planning department revised their projections in 2015. As a result of those revisions the projected 2046 was reduced to 82,820).
Have you considered increasing the service area so that incineration or high heat technologies would be more cost effective? Sault Ste. Marie could service a larger area as a profitable business generating jobs for our residents. You should establish a committee with a mandate to look at this.	<p>A waste management steering committee comprised of City staff is overseeing the project. The City's mandate is to look after its own waste and that is the intention of this study. The province has also recently released a draft provincial policy statement which encourages the management of waste close to source. The transport of waste over significant distances results in additional impacts including noise, dust and air emissions.</p> <p>The private sector is more likely to explore opportunities for a facility servicing a broad geographic region.</p>
Can there be more than one "Alternative to" selected?	Yes, the preferred waste system is likely to include a combination of the alternatives. For example, it is expected that increased 3R's would be part of the system along with one or more disposal method(s).
Doesn't diversion have a bigger service area?	The collection of blue and yellow box materials outside of the study area is a private collection and is not part of the municipal system.
Would a high heat process be able to manage nuclear or hospital waste?	Requires further study and would be looked at if "high heat" is the preferred "Alternatives To".
It was suggested that the City should not overlook incineration/high heat as a future waste management option. A lot can change over the years and it may prove to be beneficial and cost effective in the future.	Agreed.
It was noted that the timing of the meeting right before a long weekend made it challenging to attend as this is a very busy week.	It was noted that the project team wanted to have a meeting prior to vacation season. Future sessions will consider statutory holidays.

Facilitated Discussions

After the presentation, participants were asked for their input on the “alternatives to” being considered and the evaluation criteria. A workbook was provided to help facilitate this discussion. City and Consultant staff members participated in the discussion and took note of the comments raised. The following reflects the questions asked in the workbook and the results of the discussion on these questions.

1. Are there additional alternatives or evaluation criteria that you think should be considered?

In all cases the selected alternative will be a combination of two or more alternatives. The evaluation should consider impacts associated with the relevant combination of alternatives (eg. the selection of incineration/high heat will involve increased diversion, incineration/high heat, landfilling and export of waste – hazardous waste).

2. Are there any advantages or disadvantages of the alternatives that were missed?

Table 2 JUNE 26, 2007 PIC ADVANTAGES AND DISADVANTAGES		
Alternatives	Advantages	Disadvantages
Increased Waste Diversion	<ul style="list-style-type: none"> has significant advantages some materials are increasing in value so we may be able to recycle more/get more revenue consider mandatory recycling 	
Incineration/High Heat Processes	<ul style="list-style-type: none"> requires less space 	<ul style="list-style-type: none"> still have to truck hazardous waste to Sarnia or other approved hazardous waste site seems that it is used most in densely populated areas if costs are too high for industry they may start illegal dumping the acceptability of incineration varies with the political climate
Landfill	<ul style="list-style-type: none"> landfill mining will add a few years to the life of the landfill 	
Export of Waste Outside the Study Area		<ul style="list-style-type: none"> wear and tear on roads noise out of control of City - still need local disposal/landfill if border closes
Do-Nothing		<ul style="list-style-type: none"> not an option; need to manage waste

3. Are there any alternatives that should be excluded from serious consideration?

Generally participants felt that the Do-nothing option was not a realistic option as there is a need to manage waste.

Export was also identified as an option that should not be pursued any further. It was noted that provincial policy is favouring solutions as close as practicable to generation and it was felt that exporting waste is not reliable and not sustainable for the long term.

4. How well do you feel each option meets the intent of the evaluation criteria?

Comments made on the ability of each of the alternatives to meet the criterion are noted. An x represents general agreement that the alternative cannot meet the intention of the criterion. Blanks left are intentional as comments were not made for all alternatives/criteria.

Table 3 JUNE 26, 2007 PIC ALTERNATIVES EVALUATION					
Criteria	Increased Diversion	Incineration/ High Heat	Landfill	Export	Do-nothing
Compliance with Regulations and Policy	complies with regulations and policy	would meet criterion; would not comply as well as landfill	would meet criterion; meeting future regulations may be difficult	may not meet policy/ regulation in a few years (e.g. if border closes)	x
Environmental Acceptability	environmentally acceptable	environmentally acceptable cleaner; less emissions than landfill	environmentally acceptable	less likely to be acceptable compared to other alternatives	x
Ability of City to implement	City can implement	could implement but more challenging because new technology	City can implement	public would probably be concerned about exporting	x
Flexibility of System		some uncertainty	landfill is flexible	not flexible as you are stuck with a negotiated quantity leaves no contingency if someone strikes	x
Capability to Manage Quantity and Quality of Waste	could mandate recycling but will still not cover everything	some uncertainty	best at managing all waste		x
Proven Technical Capability	proven	proven not enough information to know if they would meet our environmental standards	proven	proven	x
Economic/ Cost		cost prohibitive			

Other comments made about the alternatives:

- Should deal with waste management at the source and the time of generation - landfilling of waste was noted to be an interim “storage” solution whereas incineration/high heat processes represented a longer term management approach. It was also conceded that current economic conditions are not conducive to managing waste through incineration/high heat at this time (ie: too costly).
- Landfills may be regarded as resources to be mined as a fuel at a future date once the economics become more favourable.
- Manufacturing and packaging are changing so we need a system that has the flexibility to manage this change and adapt to less waste.
- New generations are teaching their parents about recycling so we will see more emphasis on increased diversion in the future.
- Should look to the private sector for information on incineration – they probably have more experience.
- Consider that landfilled waste could be a future resource.
- Expand the service area to make incineration/high heat processes more cost effective/viable.

5. Should all the evaluation criteria be of equal importance?

There were different opinions expressed on the importance of the criteria as well as some comments on the criteria themselves as follows:

- Some participants indicated that all criteria should be considered equally important.
- Environmental acceptability was raised as a criterion that should be considered most important.
- Flexibility and capability of managing the waste stream were identified as criteria that should be considered less important.
- Compliance with regulation/policy, environmental acceptability, ability of city to implement and cost were identified as most important by some participants.
- Proven technical capability was identified as a criterion that should not be considered as more important than flexibility and capability of managing waste stream.
- It was noted that proven technical capability really reflects the ability to “sell” the technology to the public.
- It was noted that the ability of the City to implement really reflects the will of the people.
- It was noted that environmental acceptability may be different for different stakeholders.
- It was noted that cost is a reality of life.

Completed Workbooks

In addition to the foregoing feedback obtained through the facilitated discussions three completed workbooks were also received following the consultation event.

In general, preferences were noted for waste diversion, incineration/high heat processes and landfilling. Export and do-nothing were identified as impractical and unrealistic. Comments that were included in the workbooks together with responses are summarized in the table below.

Table 4
JUNE 26, 2007 PIC SUMMARY OF COMPLETED WORKBOOKS

Comment	Response
The selected system should allow conversion of waste into energy without sorting.	Some sorting is completed at source as part of the recycling programs including the public drop-off area at the landfill site. Typically no additional sorting is done for landfilling however most incineration/high heat processes will include some upfront sorting.
Consider processing of waste for the Region as a potential job creation strategy.	See response in Table 1.
Consider impacts of combined alternatives.	Consideration of combined impacts is included in the rankings under each criterion.
Quality of residues from incineration and high heat processes is dependant on what is included in the waste which is difficult to control.	Agreed.
Concerns were noted with possible need for land expropriation and the location of the existing site on the City's aquifer.	Property impacts are considered at a general level at this time but will be considered in greater detail in the next phase of the process. Potential impacts to surface water resources is included. An engineered leachate collection and management system is included in the landfilling alternative.
It is important that waste reduction is included as an alternative or at least incorporated as part of the waste diversion alternative.	The waste diversion alternative includes the 3 R's (reduce, reuse, recycle).
Concern was noted that incineration and high heat processes may generate more hazardous waste than is noted in the EA documentation.	The information included in the documentation was obtained through research completed on existing operating facilities.
Skepticism was noted that incineration/high heat processes are safe. Research needs to be independent and unbiased.	Incineration and high heat processing plants would be required to meet MOECC regulated emission requirements of the day. Facilities must be instrumented with monitoring equipment to demonstrate on going compliance.
Need to consider leachate impacts and impacts on habitat associated with landfilling including attraction of bears and rats.	This is considered at a general level at this time and will be considered in more detail in the next phases of the process.

4.2 August 9, 2007 Public Input Session – GRFN Input on “Alternatives To” and Evaluation Criteria

A public open house was conducted on Thursday August 9, 2007 in the Garden River First Nation Community Centre. The session provided a forum for interested individuals, agency representatives, and property owners, to

discuss the “alternatives to” the undertaking and criteria that will be used to compare and select a preferred approach to manage solid waste in Sault Ste. Marie, Prince Township and Batchewana First Nation’s Rankin Reserve. The session was conducted in an open house format which allowed interested individuals to attend at any time between 4:00 pm and 7:00 pm.

Representatives of the Consultant team and the City of Sault Ste. Marie were in attendance throughout the session to provide information, address questions, and facilitate discussions. A total of 5 individuals recorded their names on the sign-in sheet.

Notification of the Open House (copy included in Appendix D)

Notification of the Open House was advertised as follows:

- Sault Star on July 28 and August 4, 2007;
- City of Sault Ste. Marie website;
- Garden River First Nation website;
- Garden River First Nation’s August, 2007 Newsletter;
- Six hardcopies of the notice were also forwarded to Garden River First Nation for posting in prominent locations within their community; and
- The event was also advertised for two days in advance of the event on the changeable message sign located along Highway 17 in front of Community Hall.

Information Available to Participants

Two working papers were issued and made available at and in advance of the open house. These papers entitled “Waste Quantity Projections and Existing Environment Profile” and “Alternatives to the Undertaking” provided information on the environmental character of the study area, waste quantities, the alternatives to the undertaking and the evaluation criteria. These documents were available for downloading from the City’s website or by contacting AECOM or by visiting the local Band Office.

A Participant’s Workbook was also posted on the City’s website and distributed at the open house to provide individuals with an opportunity to record their ideas and opinions relating to the alternatives and the proposed evaluation criteria.

Displays were posted on the walls during the open house and Consultant and/or City staff representatives explained the contents of the displays to individuals or small groups and answered their questions. The following displays were posted on the walls (copies are included in the Appendix D):

- A display welcoming residents;
- Objectives of the Meeting;
- Historical Overview of the Waste Management Planning Process;
- Waste Management Services provided by the City;
- Other Recycling Opportunities provided in the City;
- Historical Overview of Waste Quantities Landfilled;
- Historical Overview of the Residential Waste Diversion Rate;
- Composition of Waste Landfilled;
- Project Need;
- What is an EA?;

- Overview of the EA Process
- “Alternatives To” being considered;
- Overview of the Increased Waste Diversion Alternative;
- Overview of the Incineration/High Heat Process Alternative;
- Overview of the Landfill Alternative;
- Overview of the Export Waste Alternative;
- Overview of the Evaluation Criteria;
- Next steps to be undertaken in the process; and
- Proposed Project Schedule.

Comments and Questions

Aside from the input provided through the completed workbooks (refer to Section below) there were no additional alternatives or evaluation criteria identified and no opinions voiced on the importance of the evaluation criteria during discussions with participants.

During the conduct of the open house there was considerable interest in expanded diversion programs and an understanding that some form of waste disposal will continue to be required in the future.

Completed Workbooks

Two completed workbooks were received during the event. The input obtained through the completed workbooks is summarized below.

1. Are there additional alternatives or evaluation criteria that you think should be considered?

Responses provided were “no” and “I don’t know”.

2. Are there any advantages or disadvantages of the alternatives that were missed?

Table 5		
AUGUST 9, 2007 PIC ADVANTAGES AND DISADVANTAGES		
Alternatives	Advantages	Disadvantages
Increased Waste Diversion	<ul style="list-style-type: none"> • Long term benefits resulting from public education including changed habits and reduced waste generation 	
Incineration/High Heat Processes		
Landfill		
Export of Waste Outside the Study Area		<ul style="list-style-type: none"> • Sends the “wrong” message. • Encourages increased waste generation – “out of sight out of mind”
Do-Nothing		

3. Are there any alternatives that should be excluded from serious consideration?

Generally participants felt that the Do-nothing option was not a realistic option as there is a need to manage waste.

Export was also identified as an option that should not be pursued any further because of the higher costs, increased environmental impacts, and a need to be responsible for our own problems.

4. How well do you feel each option meets the intent of the evaluation criteria?

Input was provided by one individual for three alternatives.

Increased waste diversion was rated the highest possible under each criterion and landfill and incineration were rated similarly under each criterion with a slight preference shown for landfill.

5. Should all the evaluation criteria be of equal importance?

The only comment made by one individual was that “environmental acceptability” is the most important criterion. The importance of other criteria was not differentiated.

6. Do you have any other issues or additional comments you would like to make?

One respondent strongly supported the development of a residential organics collection and processing program and/or encouraging individuals to compost organics themselves.

4.3 June 3, 2010 Public Input Session – Preferred “Alternative To” and Next Steps

A public information centre was conducted on Thursday June 3, 2010 in the Thompson Room at the Civic Centre. The session provided a forum for interested individuals, agency representatives, Aboriginals and stakeholders, to obtain updated information regarding waste management planning, gain an understanding of the Environmental Assessment process, review and provide comments on the results of the “alternatives to” the undertaking evaluation, identify next steps in the process and have questions answered. The session was conducted in an open house format which allowed interested individuals to attend at any time between 3:30 pm and 7:30 pm.

Representatives of the Consultant team and the City of Sault Ste. Marie were in attendance throughout the session to provide information, address questions, and facilitate discussions. A total of 10 individuals recorded their names on the sign-in sheet. Some individuals in attendance did not record their names on the sign-in sheet.

Notification of the Open House (copy included in Appendix E)

The Open House was advertised as follows:

- Sault Star on May 29, 2010;
- Sault this Week on May 26 and June 2, 2010;
- City of Sault Ste. Marie website; and
- Local Shaw Cable 10 for approximately 6 days.

The Notice of the Open House and Newsletter were also forwarded to Garden River First Nation (GRFN), Batchewana First Nation (BFN), Metis Nation of Ontario, and Missanabie Cree. Offers were also extended to GRFN and BFN to attend a Band Council meeting to update them on the study progress. GRFN responded and invited the City and its Consultant to attend the June 8, 2010 Band Council working meeting (refer to meeting report included in the Appendix E).

In addition, Newsletters were distributed to agencies, stakeholders, individuals who previously expressed an interest in the study, and property owners within 1,000 m of the existing landfill site.

Information Available to Participants

Displays were posted on the walls during the open house and the Consultant team and/or City staff representatives explained the contents of the displays to individuals or small groups and answered their questions. The following displays were posted on the walls (copies are included in the Appendix E);

- A display welcoming resident;
- A display summarizing what individuals should do at the Open House;
- Objectives of the Public Information Centre;
- Overview of waste management planning work completed over the last decade;
- Principle Waste Management Services provided by the City;
- Other Recycling Opportunities provided in the City;
- Historical Overview of the Residential Waste Diversion Rate;
- Historical Overview of Waste Quantities Landfilled;
- Composition of Waste Landfilled;
- Project Need;
- What is an EA?;
- Overview of the EA Process
- “Alternatives To” being considered;
- Overview of the Increased Waste Diversion Alternative;
- Overview of the Incineration/High Heat Process Alternative;
- Overview of the Landfill Alternative;
- Overview of the Export Waste Alternative;
- Overview of the “Do Nothing” Alternative;
- Overview of the Evaluation Criteria;
- Results of the Evaluation;
- Preferred “Alternative To” the undertaking and the rationale for the selection;
- Next steps to be undertaken in the process; and
- How to contact the project team.

Comments and Questions

During the conduct of the Open House, no comment sheets were received. There were however, a number of comments/questions that are summarized in Table 6.

Table 6 JUNE 3, 2010 PIC COMMENTS/QUESTIONS AND RESPONSES	
Comment/Question	Response

Has consideration been given to the energy requirements to recycle plastics vs. thermally processing plastics?	Municipalities are mandated by Provincial legislation to collect and recycle No's 1 and 2 plastics (ie. designated by the province). In Sault Ste. Marie, other plastics (ie: numbers 3 through 7) are currently being disposed of in landfill and are currently available for thermal processing. A comparison of the energy requirements to recycle no's 1 and 2 plastics versus thermally processing these plastics is beyond the scope of this study and should be done at the Provincial level as part of the material designation process.
A concern was noted with the potential impact of the landfill on groundwater resources in the area of the landfill site. It was noted that the City had extended the Municipal water distribution system along Fifth Line west of the landfill to address water quality concerns in drinking water wells.	The extension of the Municipal water distribution system to the landfill site was completed in 1997± to address potential concerns with potable water quality on the landfill site itself. The City is not aware of any water quality problems in potable wells surrounding the landfill site that may be attributable to the landfilling operations. (Note: time was also spent educating the individual regarding the various monitoring and leachate control systems that are present at the existing landfill site to safeguard groundwater quality beyond the boundaries of the landfill site).
The biosolids generated at the two waste water pollution control plants could be processed in the proposed Elementa facility.	This may be a viable approach but Elementa has not yet tested and confirmed that biosolids can be processed in their facility. Furthermore their proposed commercial scale plant will not have adequate capacity to process all residual waste generated in Sault Ste. Marie and they will likely prefer waste streams with higher energy content if available.
Surprised that thermal processes did not fare better in the evaluation relative to landfilling.	The rationale for the rankings is included in a summary table in the Alternatives to the undertaking report and any comments on individual rankings are encouraged.

4.4 April 19, 2011 Public Input Session – Evaluation Approach/ Criteria for a new Site vs. Expansion

A public input session was conducted on Tuesday April 19, 2011 in the Russ Ramsay Room at the Civic Centre.

The session provided a forum for interested individuals, agency representatives, and stakeholders, to obtain updated information regarding waste management planning, gain an understanding of the Environmental Assessment process, review and provide comments on the criteria and approach used to evaluate a new site versus expansion of an existing site, discuss and comment on the preliminary results of the evaluation, provide input regarding the evaluation criteria to be used in the next steps and have questions answered. The session included a presentation by the consultant team followed by a question and answer period and a working group session to complete the workbook.

Representatives of the Consultant team and the City of Sault Ste. Marie were in attendance throughout the session to disseminate information, address questions, and facilitate discussions.

Notification of Public Input Session (copy included in Appendix F)

The Session was advertised as follows:

- Sault Star on April 16, 2011;
- Sault this Week on April 6 and 13, 2011;
- City of Sault Ste. Marie website; and
- Local Shaw Cable 10 for approximately two weeks.

The Notice of the Open House and Newsletter were also forwarded to Prince Township, Garden River First Nation (GRFN), Batchewana First Nation (BFN), Metis Nation of Ontario, and Missanabie Cree. Offers were also extended to GRFN and BFN to attend a Band Council meeting to update them on the study progress.

In addition, Newsletters were distributed to agencies, stakeholders, individuals who previously expressed an interest in the study, and property owners within 1,000 m of the existing landfill site.

Information Available to Participants

Large scale copies of the power point presentation slides were posted on the walls for easy reference throughout the public input session (copies included in Appendix F). The following slides/displays were posted:

- A display welcoming participants;
- A display summarizing planned activities;
- Objectives of the Public Input Session;
- Overview of waste management planning work completed over the last decade;
- Principle Waste Management Services provided by the City;
- Other Diversion Opportunities provided to residents;
- Historical Overview of the Residential Waste Diversion Rate;
- Historical Overview of Waste Quantities Landfilled;
- Composition of waste landfilled;
- Project Need;
- What is an EA?;
- Overview of the EA Process
- Phase 2 - "Alternatives To" conclusions reached;
- Overview of Alternative Methods being considered;
- Overview of the two step evaluation to be completed;
- Overview of the Evaluation Criteria;
- Results of the Preliminary Evaluation;
- Preliminary Preferred "Step 1 Alternative Methods" and the rationale for the selection;
- Next steps to be undertaken in the process; and
- How to contact the project team.

In addition to presenting the material on the slides an overview of the landfill environmental management features and monitoring program was provided.

Comments/ Questions Raised During the Presentation

The questions/comments raised during the presentation and responses provided are summarized in Table 7.

Table 7
APRIL 19, 2011 PIC COMMENTS/QUESTIONS DURING PRESENTATION

Comment/Question	Response
Is 34% diversion comparable to other municipalities	Yes. City of Sault Ste. Marie is in line with other similarly sized municipalities with similar diversion programs.
In southern Ontario there is a large weight associated with newspapers so their diversion rate shows as higher. We should use volume to indicate diversion rate rather than weight.	It is very difficult to measure volume and weights are much more practical/convenient.
Sudbury diversion rates are higher but they do collect more plastics and they have organics collection. It is a single stream process with improved participation. The waste from the Sudbury MRF is approximately 1.5-4%	No response required.
Are there items banned from the landfill?	Yes old corrugated cardboard and leaf and yard waste are banned.
Elementa tried to do their EA and Certificate of Approval at the same time. They should have finished one process and then gone to the next.	No response required.
How much of the residual waste is organics?	Based on previous studies completed, approximately 30-40% of the waste stream is organic.
How much does the existing site cost? How much less will an expansion cost compared to a new site?	Although detailed estimates have not been completed qualitatively an expansion is less costly and the rationale is detailed in the EA report.
The City has improved odour control with the installation of the gas management system. Sludge is the remaining issue that needs to be dealt with at the existing site.	Agreed. A biosolids management plan has been completed to mitigate odours in transit to the landfill and at the site itself.
Needs to be clear that, while local residents may have become used to the site it does not mean that they like it.	Understood. The City will continue to be as proactive as possible to continually improve nuisance management at the site.
Representatives from Elementa indicated that they can process any carbon based material that is available. In their discussions with Spain they understand that landfills are banned there. The comment "why bury energy" was made.	The City has endorsed a waste supply agreement with Elementa which provides for the management of a portion of the residual waste stream in an energy-from-waste facility.
Is the City of Sault Ste. Marie looking at new recycling products? The City should work with the contractor to get more recyclable materials	The City's contract for recycling collection and processing includes provisions to consider new products. The inclusion of new material is however

Table 7
APRIL 19, 2011 PIC COMMENTS/QUESTIONS DURING PRESENTATION

Comment/Question	Response
collected.	contingent upon having an established market to purchase/utilize the materials.

Public Input Session Workbook

Following the presentation and question/answer period, a small group discussion was held with participants to go through the public input session workbook. Six participants joined in the small group discussion including two site neighbours. The following documents the discussion that took place.

Participants were asked to comment on the project team's preliminary conclusion that a landfill expansion is preferred over the development of a new site and the key differences between the two options. Participants commented as follows:

Table 8
APRIL 19, 2011 PIC – COMMENTS/QUESTIONS DURING WORKING GROUP SESSION

Comment/Question	Response
An expansion option assumes there is land to expand into. We need to confirm that there is enough room.	This is an important consideration and will be addressed in Step 2 of the Alternative Methods evaluation provided expansion is selected as preferred in Step 1.
Should consider mining the existing site and expanding upwards. You could remove recyclables from the mined material and then take it to Elementa for processing.	Mining and a vertical expansion will be considered in the next step of the Alternative Methods phase. Recoverable materials that are encountered during the mining operations will be separated and marketed.
It was noted that you could always mine the existing site even if a new site was identified as preferred.	Agreed, however there would be two sites that would generate nuisance impacts and would require additional resources to operate and manage.
A new site brings a lot of headaches – Where are you going to find a clay dish like you have at the existing site? You will spend 10 years and a lot of money to look for a new site and then find out at the last minute that there is something about it that makes it not workable.	The search for a suitable new site can be very time consuming and costly and typically generates significant anxiety in communities. Significant investment can occur with no guarantees that a workable site will be established. This is also the case for site expansion but a lessor investment is likely required. Both a site expansion and a new site will however require a liner to manage leachate.
The existing site is a known quantity.	Agreed. This was cited as an advantage in the evaluation.
We don't have the density and sprawl in Sault Ste. Marie that they have in southern Ontario so we could probably find a new site that might be better than the existing site.	The search for a suitable new site can be very time consuming and costly and typically generates significant anxiety in communities. Although a new site could potentially be identified the preliminary

Table 8
APRIL 19, 2011 PIC – COMMENTS/QUESTIONS DURING WORKING GROUP SESSION

Comment/Question	Response
	conclusion reached through the evaluation completed is that the City should initially focus resources on assessing the practicality and net impacts of an expansion. A search for a new site was also completed in the late 80's with limited success.
You will run in to NIMBY if you try to site a new landfill. Residents and property owners were concerned with wind turbines so they are certainly going to be concerned with a landfill.	Agreed.
It was noted that both sites have similar potential for disruption to the neighbouring community.	Agreed but there has been some adaptation with the existing site.
Concern about mining is the odour. There was a lot of odour when they dug into the site to place the pipes for the landfill gas collection system.	Odour is a significant concern associated with mining operations and will require close attention to best practices to mitigate. The intent would also be to limit the timeline for mining operations.
Don't think a community will allow a new landfill. The City should go with what we have and make it better.	The preliminary conclusions reached through the evaluation suggest focusing on an expansion for a number of reasons as noted elsewhere in the report. The intent would be to further improve the environmental management features at the existing site in conjunction with an expansion.
It was suggested that an expansion could not go east or south, there is not much room to go west, and the north is the best direction for an expansion as there are no additional people to impact. North was preferred over going higher. A separate fill area to the north was suggested.	Various expansion options will be explored in the next step of the process if the preferred alternative from the current step is expansion. It was acknowledged that expansion east or south is not likely practical.
It was acknowledged that there would be a cost savings with an expansion over a new site.	Agreed.
There was discussion on the lifecycle cost of existing equipment and whether it could be re-used if a new site was selected. It was suggested that the equipment cost difference for the site is probably not that great and should not be what is relied upon to make the decision between the options.	It was noted that in addition to the equipment there are infrastructure items on the current site that could potentially be reused including site roads, weigh scale(s), scale house and administrative and maintenance buildings existing groundwater, surface water and landfill gas monitoring systems. Collectively these items could result in a substantial cost savings.
It was noted that investigations on a new site would be very costly and there is a lot less certainty than with an existing site.	The search for a suitable new site can be very time consuming and costly and typically generates significant anxiety in communities. Significant investment can occur with no guarantees that a workable site will be established. Although a

Table 8
APRIL 19, 2011 PIC – COMMENTS/QUESTIONS DURING WORKING GROUP SESSION

Comment/Question	Response
	significant investment is also required for a site expansion the required investment is likely much less given the significant knowledge that pre-exists for the site.
Don't think that a new site would be much harder to approve but it would be harder to get buy-in from the community.	Agreed that there may be increased challenges in obtaining buy-in from the community for a new site particularly if it is located near sensitive uses. The approval for a new site would require more extensive investigations to ascertain potential impacts particularly with groundwater.
The existing site is well run there have been improvements (e.g. gas management). The sludge smell and potential for groundwater impacts are the only issues at the existing site that neighbours are concerned about. If you fix these issues then there is no problem with the existing site.	A biosolids management study is being completed to address the management, nuisance impacts and potential beneficial use of the sewage biosolids. The City has been effectively monitoring and managing groundwater quality at the existing site and expansion would include further enhancements to the existing leachate management features and protocols.
One option to fix the concern about groundwater is to supply municipal water to local residents.	Consideration will be given to potential impacts to private well supplies in the next phase of the study.
The long term plan for the landfill is good but we should also be focusing on what we can do to help Elementa. It was noted that their biggest issue at this point was getting an appropriate electricity rate from the Ontario Power Authority. Waste-to-energy is the only thing not included in the government's feed-in-tariff program and it should be.	The City has endorsed a waste supply agreement with Elementa. It is anticipated that Elementa will continue to negotiate with OPA with the goal of establishing an acceptable power purchase agreement.
It was noted that we should be focusing on reducing and recycling.	Increased 3R's was identified as an important element of the overall preferred solution identified in the first phase of the study and the City is committed to investigating and implementing cost effective 3R's strategies.

There was not sufficient time to review the evaluation criteria to be used in the next step. Participants suggested that they liked the approach taken to date where the team goes through the evaluation using their technical expertise and brings it back to the community for review and input.

In addition to the workbook that was collectively reviewed by the group at the Public Input Session, a member of the public also submitted a completed workbook. Comments were made throughout the workbook and were summarized as follows:

"I agree with the preliminary conclusions....however the City must continue to find ways to reduce the amount of garbage in the first place."

4.5 March 6, 2012 Public Input Session – Evaluation Approach/ Criteria and Preliminary Preferred Expansion Option

A Public Input Session was conducted on March 6, 2012 in the Russ Ramsay Room of the Civic Center. Representatives of the Consultant team and the City of Sault Ste. Marie were in attendance throughout the session to provide information, address questions, and facilitate discussions. The information session was open from 3:30 p.m. to 7:30 p.m. with a total of seventeen (17) individuals recording their names on the sign-in sheet.

The principle objective of the Step 2 Alternative Methods consultation task was to obtain feedback from the general public, agencies, Aboriginal Communities and stakeholders regarding the evaluation criteria and the preliminary results. To assist in soliciting as much input as possible, a questionnaire was developed to provide targeted feedback and a comment sheet was made available to provide general comments. The questionnaire and comment sheet were available at the March 6, 2012 Public Input Session and were posted on the project webpage on the City's website. In addition digital responses were encouraged through Survey Monkey, an online survey website.

Notification of the Public Input Session (copy included in Appendix G)

The Open House was advertised as follows:

- Sault Star on February 25, 2012;
- Sault This Week on February 22 and February 29, 2012;
- City of Sault Ste. Marie website;
- The local media (radio, online news agencies and newspapers) raised awareness of the open house;
- Hardcopies of the notice were mailed to individuals that reside in close proximity to the landfill and/or previously expressed an interest in the project;

Information Available to Participants

Displays were posted on the walls to disseminate information to individuals that attended the public input session. The following displays were posted on the walls (copies of the displays are included in the Appendix G):

- A welcoming display;
- What individuals should do when they arrive at the session;
- Objectives of the session;
- Waste management planning activities;
- Waste diversion opportunities, accomplishments, and possible future initiatives (4 displays);
- Project need rationalized;
- Overview of the EA process (2 displays);
- The conclusions reached in the "Alternatives To" phase;
- Step 1 Alternative Methods considered and conclusions reached (2 displays);
- Overview of landfill expansion options considered (5 slides);
- Summary of the proposed evaluation criteria, methodology and preliminary results (4 slides);
- Identification of the preliminary preferred alternative selected by the technical team;
- Next steps in the process; and
- Project team contact information.

In addition to the displays, copies of the Solid Waste Management Environmental Alternative Methods – Step 2 (Identification and Comparison of Expansion Options) Draft Working Paper was available for review together with earlier reports.

Comments and Questions

The following input was received during and following the public input session:

- Two (2) letters;
- One (1) comment sheet;
- Two (2) completed online surveys through Survey Monkey; and
- Two (2) questionnaires.

The information received through the various formats is summarized in the Table 9.

Table 9 MARCH 6, 2012 PIC SUMMARY OF COMMENTS/INPUT RECEIVED AND THE PROJECT TEAM'S RESPONSES	
Comments	Response
Suggested that a waste-to-energy vendor be invited to convert our waste (Elementa or an alternate vendor).	A private sector energy-from-waste (EFW) proponent called The Elementa Group (Elementa) has built and tested a pilot steam reformation plant that converts municipal solid waste into a char and synthetic gas that can be used to generate electricity. The pilot testing was completed from 2007 to 2009 and Elementa has plans to construct a new larger-scale facility, with an estimated annual throughput capacity of at least 35,000 tonnes. In 2009, the City entered into a waste supply agreement with Elementa to process a minimum 12,500 tonnes per year of the City's residential MSW for a minimum ten year period commencing in 2011. The project implementation has been delayed on a number of occasions and the waste supply agreement was amended on a number of occasions to reflect changes in waste supply commencement dates.
Prevent leachate from entering groundwater and surface water sources.	The proposed expansion includes strategies to mitigate potential adverse impacts to ground and surface water that could be generated from the proposed expansion area. The preliminary preferred expansion option includes provisions to enhance ground and surface water protection measures associated with the existing disposal footprint. Further details will be forthcoming in the next phase of the project (ie. detailed impact assessment)
The necessity and cost of the proposed landfill mining in the western portion of the existing footprint was questioned.	Although landfill mining is not a "necessity" there are pros and cons to this component of the preliminary preferred option. Landfill mining provides an opportunity to enhance groundwater protection measures associated with the existing disposal footprint. A secondary benefit is the additional disposal capacity sourced by separating the waste from the fines and re-landfilling only the waste. The principle drawbacks to landfill mining are the added cost, nuisance impacts (ie. odours, dust, noise) and

Table 9**MARCH 6, 2012 PIC SUMMARY OF COMMENTS/INPUT RECEIVED AND THE PROJECT TEAM'S RESPONSES**

Comments	Response
	worker protection. The feedback that we have received to date is that the long term ground water quality benefits outweigh the added costs and short term operational impacts.
Displays and presentation was well done and very informative.	No response required.
Consideration should be given to petition the expansion of the current Provincial Groundwater Monitoring Network (PGMN). This expansion could allow for additional groundwater quality and quantity monitoring away from the landfill. The additional monitoring capability would increase the predictability of any potential threat of off-site contamination and allow the operators of the municipal drinking water distribution network to have ample notice of any impending issues. Policies will be included in the Municipality's Source Protection Plan to address.	There is an extensive network of monitoring wells located within and immediately adjacent to the existing waste disposal site. This network provides ample opportunity to assess groundwater quality within and adjacent to the site. We support your suggestion that there are benefits to expanding the PGMN within the capture zones of the municipal wells to identify contaminants well in advance of reaching the well head.
Concern was expressed regarding the long term quality of drinking water sourced from private wells adjacent to the site.	There is an extensive network of monitoring wells located within and immediately adjacent to the existing waste disposal site. This network provides ample opportunity to assess groundwater quality within and adjacent to the site. Despite the extensive monitoring network we understand the concern raised and further consideration will be given to this concern in the next phase of the project (ie. detailed impact assessment).
Concern was expressed with the location of a landfill on a significant ground water recharge area but also acknowledged that the expansion of the existing site allows an opportunity to help reduce the risk of the existing landfill operation with ongoing monitoring and through the application of partial or total impervious cover over the existing footprint to limit infiltration and leachate production.	Although the location of the existing waste disposal site may not be ideal the ongoing operation and site monitoring by the Municipality has demonstrated that leachate is being effectively managed as demonstrated through the annual reporting. Despite the effective leachate management the City believes the proposed expansion offers an opportunity to further enhance the protection measures associated with the existing disposal site. These measures may include a liner at the base of the waste and at the interface between the new and existing waste in the expansion areas, a partial or full impervious final cover design, mining and lining a portion of the existing site and installation of a horizontal collector along the western boundary of the expansion area.
Support for landfill mining to improve ground water quality but also identified a need to consider air quality and protection of workers during the operations.	There are pros and cons to landfill mining. Landfill mining provides an opportunity to enhance groundwater protection measures associated with the existing disposal footprint. A secondary benefit is the additional disposal capacity sourced by separating the waste from the fines and re-landfilling the waste only. The principle

Table 9**MARCH 6, 2012 PIC SUMMARY OF COMMENTS/INPUT RECEIVED AND THE PROJECT TEAM'S RESPONSES**

Comments	Response
	drawbacks to landfill mining are the added cost, nuisance impacts (ie. odours, dust, noise) and worker protection during the operations. Further consideration of the nuisance impacts and safety will be included in the detailed impact assessment.
Composting should be fast tracked by the MOECC.	The City, through its Consultant, interacts regularly with MOECC staff regarding proposed changes to the composting regulations.
Support expressed for Option 3 - North and West Expansion B. Also suggested that landfill mining should be considered as technology becomes available and this option becomes more cost competitive. It was also noted that there should continue to be a focus on recycling.	Although there is additional expense associated with the proposed landfill mining it will help to mitigate potential ground water impacts to the south west of the site. The preferred solution that was identified in the "Alternatives To" stage of the process included increased waste diversion and the City is committed to investigating and implementing cost effective ways and means of reducing residual waste disposal quantities.
Every effort should be made to reduce the timeframe to initiate the landfill expansion plan.	The City is committed to moving forward with the next steps of the EA process and the technical approvals required for the expansion.

4.6 February 9, 2016 Public Input Session – Impact Assessment for the Preferred Option

A Public Input Session was conducted on February 9, 2016 in the Russ Ramsay Room of the Civic Center. Representatives of the Consultant team, and the City of Sault Ste. Marie were in attendance throughout the session to provide information, address questions, and facilitate discussions. The information session was open from 3:30 p.m. to 7:30 p.m. with a total of nine (9) individuals recording their names on the sign-in sheet.

The principle objective of the Impact Assessment consultation task was to obtain feedback from the general public, agencies, Aboriginal Communities and stakeholders regarding the identified impacts and the proposed mitigation measures for the preferred option. A comment sheet was provided which incorporated two key questions and provided space to record any other comments or concerns. The comment sheet was also posted on the project webpage on the City's website.

Notification of the Public Input Session (copy included in Appendix H)

The Open House was advertised as follows:

- Sault Star on January 30, 2016;
- Sault This Week on January 26 and February 2, 2016;
- City of Sault Ste. Marie website;
- The local media also raised awareness of the open house through news articles; and
- Hardcopies of the notice were mailed to agencies, Aboriginal Communities and individuals that reside in close proximity to the landfill and/or previously expressed an interest in the project.

Information Available to Participants

Displays were posted on the walls to disseminate information to individuals that attended the public input session. The following displays were posted on the walls (copies of the displays are included in the Appendix H):

- A welcoming display;
- What individuals should do when they arrive at the session;
- Objectives of the session;
- Overview of the EA process (2 displays);
- Project history and key milestones;
- The conclusions reached in the “Alternatives To” phase (increased 3R’s and landfilling);
- Step 1 Alternative Methods conclusions reached (landfill expansion in lieu of a new site);
- Step 2 Alternative Methods conclusions reached (north and west expansion with landfill mining);
- Conceptual plan of the preferred expansion option;
- Description and key objectives of the Impact Assessment for the preferred option (2 slides);
- Results of the biological impact assessment;
- Conclusions from the geotechnical investigation;
- Results of the groundwater impact assessment;
- Results of the noise impact assessment;
- Results of the air quality impact assessment;
- Results of the odour impact assessment;
- Results of the surface water impact assessment;
- Results of the socio-economic impact assessment;
- Results of the visual impact assessment;
- Results of the traffic impact assessment;
- Results of the cultural impact assessment;
- Results of the land use impact assessment; and
- Next steps.

In addition to the displays, copies of the impact assessment reports were available for review.

Comments and Questions

The following input was received during and following the public input session:

- Comments recorded during the open house;
- Two (2) emails;
- One (1) comment sheet;

The information received through the various formats is summarized in the Table 10.

Table 10	
FEBRUARY 9, 2016 SUMMARY OF COMMENTS/INPUT RECEIVED AND THE PROJECT TEAM’S RESPONSES	
Comments	Response
Concern was expressed with litter sprawl and plastic bags and	The City has proactive litter pickup protocols in place at the landfill site which include manual and mechanical collection methods.

Table 10**FEBRUARY 9, 2016 SUMMARY OF COMMENTS/INPUT RECEIVED AND THE PROJECT TEAM'S RESPONSES**

Comments	Response
odours.	<p>There are a significant number of odour mitigation protocols in place as follows:</p> <ul style="list-style-type: none"> • In 2010 the City completed an upgrade from a “passive” system to an “active” landfill gas collection system over a portion of the site. The system reduces the quantity of methane released to the atmosphere (ie: reduces the carbon footprint of the site) and also reduces odours generated at the site. • In addition to landfill gas, biosolids (i.e: sewage sludge) delivered to the site for disposal may also contribute to off-site odours. The City continues to be proactive in its efforts to manage and mitigate odours associated with the transport, management and disposal of biosolids. A biosolids management study is also nearing completion which incorporates processing of the sludge to reduce odour impacts and facilitate beneficial uses. • An odour neutralizing agent is applied to the biosolids at the water pollution control plants prior to delivery to the landfill site. Once the biosolids are tipped at the working face they are mixed with other wastes and cover is applied promptly. A hand held sprayer is used by the vehicle operators to apply an odour neutralizing agent to the empty trailers before they leave the site throughout the year. • Early in 2013, mesh tarps were replaced with impermeable, waterproof tarps on one biosolids trailer at the west plant and two biosolids trailers at the east plant to mitigate odour release in transit to the landfill. • Regular trailer washing was also initiated in 2013 to remove residual biosolids from the outside faces and wheels of the trailers. <p>Careful attention will also be given to the implementation of best management practices to mitigate odours associated with the proposed landfill mining operations.</p> <p>Local residents are encouraged to contact the landfill to alert operations staff of any issues related to litter sprawl or odours to ensure actions are taken to mitigate nuisances.</p>
A request was made to undertake groundwater sampling to the north of the landfill to confirm impacts are not migrating to the north.	<p>There are several monitors that are located to the north of the disposal footprint that have been sampled historically and have been used as background monitors because they have shown any significant impacts. In addition there is a significant inventory of groundwater monitors that have consistently demonstrated that groundwater flows south, south-east and south-west from the landfill site.</p>
A representative of Ellwood Robinson Ltd. (local Contractor) requested that access be maintained to their pit in conjunction with the proposed expansion. The pit is currently only accessible through the	<p>City staff noted that they believe there is an agreement addressing access to the pit and it will continue to be respected in conjunction with the proposed expansion.</p>

Table 10**FEBRUARY 9, 2016 SUMMARY OF COMMENTS/INPUT RECEIVED AND THE PROJECT TEAM'S RESPONSES**

Comments	Response
landfill site.	
A local resident had several questions related to pay-as-you-throw programs, source separated organics/ backyard composters, bi-weekly waste collection and the use of clear bags for waste disposal.	A detailed response was issued and it describes the current partial pay-as-you-throw program and future potential enhancements, the challenges with a source separated organics collection and processing program and bi-weekly waste collection in Sault Ste. Marie, the potential for future enhanced public education related to backyard composting and considerations in mandating clear waste disposal bags in the future. In addition we provided a comprehensive summary of 3R's initiatives that are integral to the City's waste management plan.
A local resident questioned what initiatives are planned to enhance diversion and the status of the proposed waste-to-energy facility.	We provided a comprehensive summary of current and proposed future 3R's initiatives that are integral to the City's waste management plan. We also explained that the waste-to-energy project has been delayed on several occasions and the contract with the City has been amended at the request of the vendor. The current contract identifies the latest possible construction start in May 2016 which was not achieved. In addition in December 2015 the vendor was ordered into receivership and the future of the contract with the City is unknown.

Appendix **A**

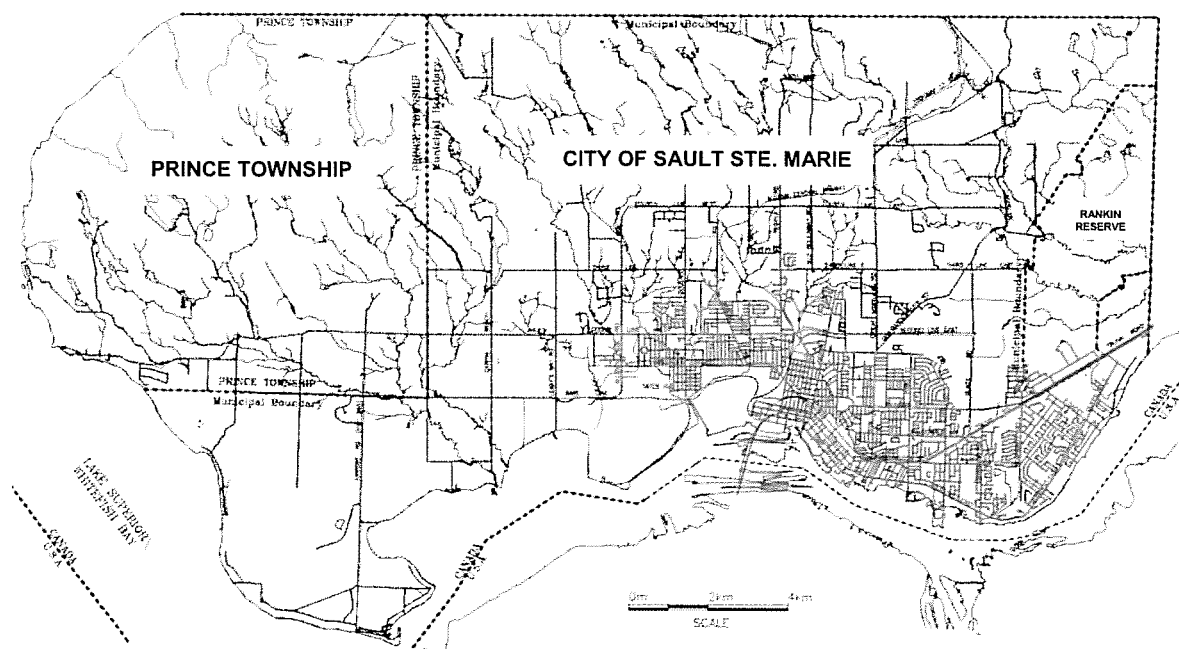
EA Terms of Reference

- Solid Waste Management Plan
Terms of Reference Consultation
Report – March, 2005
- Summary of First Nation
Consultation

☐ **Solid Waste Management Plan Terms of Reference
Consultation Report – March, 2005**

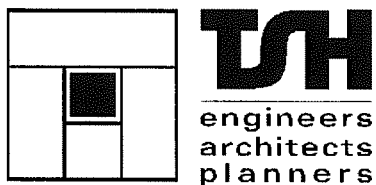
City of Sault Ste. Marie

SOLID WASTE MANAGEMENT PLAN TERMS OF REFERENCE



CONSULTATION REPORT

March 2005

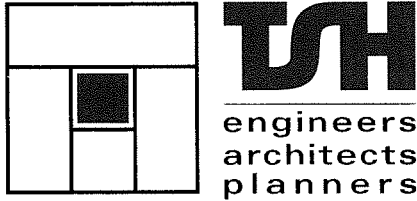


CITY OF SAULT STE. MARIE

SOLID WASTE MANAGEMENT PLAN TERMS OF REFERENCE

CONSULTATION REPORT

TSH Project No. 38-60319



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March 1, 2005

Mr. Don Elliott, P.Eng.
Manager of Construction and Environmental Engineering
City of Sault Ste. Marie
P.O. Box 580
Civic Centre, 99 Foster Drive
Sault Ste. Marie, Ontario
P6A 5N1

Dear Mr. Elliott:

Re: City of Sault Ste. Marie
Solid Waste Management Plan Environmental Assessment
Terms of Reference Consultation Report
TSH Project No. 38-60319

We are pleased to submit the Consultation Report Terms of Reference. This report summarizes the consultation undertaken on the Terms of Reference.

Should you have any questions, please do not hesitate to call the undersigned or Mr. Rick Talvitie.

Yours very truly,

Michael Cant
Manager, Solid Waste

MC/wb
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Encl.

CITY OF SAULT STE. MARIE SOLID WASTE MANAGEMENT PLAN TERMS OF REFERENCE CONSULTATION REPORT

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Appendix D - Project Notification
Appendix E - Open House Material July 13, 2004

LIST OF ABBREVIATIONS

EA	Environmental Assessment
EA Act	Environmental Assessment Act
GMEF	General Municipal Enabling Fund
MOE	Ministry of the Environment
ToR	Terms of Reference

CITY OF SAULT STE. MARIE

SOLID WASTE MANAGEMENT PLAN TERMS OF REFERENCE

CONSULTATION REPORT

1. INTRODUCTION

Consultation was an important component of the preparation of the Environmental Assessment Terms of Reference (ToR) for the City's Solid Waste Management Plan. As outlined in the ToR, the City has adopted a series of consultation principles to ensure that the process is transparent, understandable and accessible to everyone.

This supplementary report to the Terms of Reference documents the relevant consultation activities undertaken as part of the Solid Waste Management Plan which has been ongoing since 2000. In addition, the report outlines the consultation activities undertaken in preparing the ToR, the comments received and responses to those comments. The report also provides an overview of the consultation activities anticipated during the preparation of the EA.

1.1 Background

In September 2000, the City of Sault Ste. Marie initiated a four-phased Solid Waste Management Plan to provide direction on all aspects of its solid waste management system for the next 20 to 40 years. The four phases of the study included:

- | | |
|----------|---|
| Phase 1: | Identification of a Preferred Waste Diversion System |
| Phase 2: | Identification of a Preferred Waste Disposal System |
| Phase 3: | Development of a Business and Implementation Plan |
| Phase 4: | Development of an Environmental Assessment Act Terms of Reference |

Phase 1 of the study was completed in June 2001 with the release of the *Alternative Waste Diversion/Collection Systems Options Report*. In this report, it was recommended that waste diversion programs be expanded. The City awarded a contract for an expanded blue box diversion program in October 2002. A new Materials Recovery Facility (MRF) was constructed and made operational in late 2003. In addition, the City has implemented bag limits and increased tipping fees. Recycling is being introduced to multi-residential facilities and leaf and yard waste collection is expanding from three times per year to bi-weekly May through November.

In addition the City received funding through the Green Municipal Enabling Fund (GMEF) to undertake a feasibility study on co-composting residential organics and leaf and yard waste with biosolids. The *Co-composting Pilot Study* report was finalized in February 2004.

Phase 2 of the study was completed in July 2002 with the release of the *Waste Collection and Disposal Report*. In this phase, it was recognized that with the limited disposal capacity remaining in the City's landfill additional disposal capacity would be required in the future despite the significant efforts to enhance diversion. Within this report a number of disposal alternatives were explored and evaluated and public input on the disposal alternatives was sought.

Phase 3 of the study was completed in February 2003 with the release of the *Business and Implementation Plan*. This plan outlines the costs of expanded waste diversion programs and disposal requirements and explores options to recover the costs. The result of this report was that Council approved the implementation of residential bag limits, bag fees and increased tipping fees at the landfill site.

Although not part of the ToR, the above reports provide a significant amount of background on the existing and future waste management system in the City. Public input was sought on all the documents.

It is noted that a ToR was prepared in June 2003 and public input on the document was received. Due to the Richmond Landfill court decision and uncertainty on the EA process, the ToR was never submitted to the MOE for formal review and approval.

After consultation with the MOE, it was decided to revise the Terms of Reference. This report outlines the consultation undertaken during the Solid Waste Management Planning process, on the original ToR and the revised ToR.

The solid waste management plan has considered opportunities for both waste diversion and waste disposal. These conclusions will be re-evaluated as part of the Environmental Assessment planning process. As the City is approaching capacity at the current site, the City will require approval under the EA Act if additional capacity is required. The first key step in the process is the preparation of the ToR for the Environmental Assessment.

2. SOLID WASTE MANAGEMENT PLAN CONSULTATION

2.1 General

The City has been developing a Solid Waste Management Plan since September 2000. A number of consultation activities have been undertaken during the development of the plan. Three relevant consultation events occurred in September 2001, March 2003 and July 2003. A brief discussion of these events follows:

2.2 Public Open House September 26, 2001

A Public Open House was held on September 26, 2001 to present information to the public regarding the long-term solid waste management plan and, in particular, the alternative waste diversion systems. In total 23 people attended the Open House. Attendees were asked to complete a questionnaire. The results from two of the questions are presented below:

Question 12: How do you think the City of Sault Ste. Marie should manage its recycling program? Five alternatives have been developed and are listed below. (Please rank these options from 1 to 5, with 1 being most preferred and 5 being least preferred)

- System 1: The same system as is currently provided (potential diversion 10-23%)
- System 2: System 1 components **plus** biweekly collection of yard waste during the May to October season (potential diversion 12-23%)
- System 3: System 2 components **plus** the collection of corrugated cardboard from curbside (potential diversion 13-23%)
- System 4: System 3 components **plus** the recycling of additional materials, such as cereal boxes, plastic film, juice containers, etc. (18-30%)
- System 5: System 4 components **plus** the collection and composting of organic wastes (potential diversion 37-52%)

RESPONSES TO QUESTION 12					
Ranking	System 1	System 2	System 3	System 4	System 5
1 (Most Preferred)					15
2				11	
3		1	9		
4		8			
5 (Least Preferred)	10	1	1	1	

Question 13: The Sault Ste. Marie Landfill is expected to reach capacity in 10 – 12 years. How do you think the City of Sault Ste. Marie should manage its garbage once the existing landfill site is full? (Please rank these options from 1 to 7, with 1 being most preferred and 7 being least preferred)

- Option 1: Incineration (burning)*
Option 2: New Landfill Site in City Limits
Option 3: New Landfill Site Outside City Limits
Option 4: Export Waste Elsewhere in Ontario (e.g. Adam's Mine)
Option 5: Export Waste to United States
Option 6: Expansion of Existing Landfill
Option 7: Landfill Mining (rework existing landfill site)

RESPONSES TO QUESTION 13							
Ranking	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
1 (Most Preferred)	1	1	1			2	9
2	1	1	2			6	1
3		5	3			2	
4		2	3	1	1		1
5	4			1	1	1	
6		2		2	1		
7 (Least Preferred)	5	1	2	3	5	1	

The results of the Open House are summarized in Appendix A.

2.3 Public Open Houses March 18 and 19, 2003

On March 18 and 19, 2003, two Open Houses were held in the City to discuss the proposed user fee scenario being proposed through the *Business and Implementation Plan*. In addition, the Environmental Assessment process was discussed with the public. In total 29 people attended the two meetings. Attendees were asked to complete a questionnaire. The results of one of the questions asked is highlighted below.

*Question 8: The Sault Ste. Marie Landfill is expected to reach capacity in 10 – 12 years. How do you think the City of Sault Ste. Marie should manage its garbage once the existing landfill site is full?
(Please rank these options from 1 to 7, with 1 being most preferred and 7 being least preferred)*

- Option 1: Incineration (burning)*
Option 2: New Landfill Site in City Limits
Option 3: New Landfill Site Outside City Limits
Option 4: Export Waste Elsewhere in Ontario (e.g. Adam's Mine)
Option 5: Export Waste to United States
Option 6: Expansion of Existing Landfill
Option 7: Landfill Mining (rework existing landfill site)

RESPONSES TO QUESTION 8							
Ranking	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
1 (Most Preferred)	6	1	2		1	6	10
2	1	3	3			13	8
3	4	4	8		2	3	6
4	2	10	9	1		3	1
5	6	3	3	8	1	1	2
6	1	1	1	13	8		
7 (Least Preferred)	7	2		2	13		

The results of the Open House are summarized in Appendix B.

2.4 Meeting with Waste Management Steering Committee

A Waste Management Steering Committee has been established to provide direction in developing a long-term solid waste management plan. A meeting was held on May 26, 2003 to outline to the Committee that an Environmental Assessment Terms of Reference Document was being prepared and the purpose of the document.

As mentioned previously, this ToR Document was never submitted.

2.5 Public Open House July 3, 2003

On July 3, 2003 an Open House was held to obtain input on the first ToR Document. In total eight (8) people attended the meeting. A handout was provided to those attending asking for input on the relative importance of the different criteria groups. The meeting notice, sign-in sheet, displays, handouts and input received are contained in Appendix C.

2.6 Other Consultation Related Activities

Newspaper Articles

The local press has provided considerable newspaper coverage of the Solid Waste Management Study. This has resulted in residents obtaining information about the process being proposed by the City.

Council Presentations

A number of presentations were made to Council during the completion of the Solid Waste Management Planning Study. All meetings were open to the public and televised on the local community channel.

3. CONSULTATION - PREPARING THE TERMS OF REFERENCE

3.1 General

The following consultation activities were carried out leading up to the issuance of the current Terms of Reference:

Project Notification	Placement of an initial notice about the project and workshop in the newspapers.	July 2004
Web Site	Posting of initial notice of the July 2004 project on City's web site.	July 2004
Draft Terms of Reference and Public Open House	A public open house to discuss the Terms of Reference.	July 2004
Review of Draft Terms of Reference	<p>A newspaper notice and mailing list distribution notified the public of the opportunity to review the Draft Terms of Reference and attend a Public Open House. The Terms of Reference was distributed to the following government review agencies for comment:</p> <ul style="list-style-type: none">• Canadian Environmental Assessment Agency;• Department of Indian Affairs and Northern Development Canada;• Environment Canada;• Fisheries and Oceans Canada;• Sault Ste. Marie Region Conservation Authority;• Ontario Native Affairs Secretariat;• Ministry of Agriculture and Food;• Ministry of Culture;• Ministry of Tourism and Recreation;• Ministry of Health and Long Term Care;• Algoma Health Unit;• Ministry of Municipal Affairs and Housing;• Ministry of Natural Resources;• Ministry of Northern Development and Mines;• Ministry of Transportation; and• Ministry of the Environment	July 2004

3.2 Project Notification

A copy of the project notification is included in Appendix D.

3.3 Public Open House July 13, 2004

A Public Open House was held on July 13, 2004 to discuss the ToR Document. In total five (5) people attended the Open House. A copy of the attendance report is included in Appendix E. Also included in Appendix E are the display boards and handout provided. The display boards and handout were also posted on the City's web site. No handouts were returned with comments.

3.4 Comments and Response - Draft Environmental Assessment Terms of Reference

Table 3.1 documents the comments received and provides responses highlighting how the comments have been, or will be, addressed in the Environmental Assessment. All comments raised have been included in the table. As noted in Section 3.3, no comments were received from the general public.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
Canadian Environmental Assessment Agency (CEAA)	Cathy Hainsworth Senior Program Officer	Aug 18/04	<p>While sufficient information on the proposed undertaking is currently not available to determine whether the federal environmental assessment process will apply to this project, the proponent should be aware that the Canadian Environmental Assessment Act (CEAA) requires a federal environmental assessment to be conducted when, in respect of a project, a federal authority:</p> <ul style="list-style-type: none"> • is the proponent; • makes or authorizes payment or any other form of financial assistance to the proponent; • sells, leases or otherwise disposes of lands; or • issues a permit, or license or other form of approval pursuant to a statutory or regulatory provision referred to in the Law List Regulations. <p>In order for CEAA to apply, there must be a project, a federal authority and a trigger under section 5(1) of the Act. To identify if this project will be submitted to the CEAA, a detailed project description will be required once the details of the project become known.</p>	The agency will continue to be kept informed of the project and further details will be provided as they become available during the EA to allow the need for a Federal EA to be determined.
Department of Indian Affairs and Northern Development	Mr. John Higham Acting Director		<p>Voicemail message left September 15. Email message sent September 16. Voicemail message left September 23. Still awaiting a response.</p>	--
Environment Canada	Mr. Rob Dobos Head, EA Section	July 22/04	Environment Canada has no comments. Would like to participate in review of draft EA Report.	We will keep Environment Canada informed.
Fisheries and Oceans	Mr. Paul Savoie Impact Assessment Biologist		<p>Voicemail message left September 15. Email message sent September 16. Out of office until September 20. Voicemail message left September 27. Still awaiting a response.</p>	--

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
Ontario Native Affairs Secretariat	Mr. Richard Saunders Director, Corporate Aboriginal Policy and Management Branch Mr. David Pickles Senior Policy Advisor	Jan. 20, 05	<p>The responsibilities of the Ontario Native Affairs Secretariat (ONAS) include conducting land claim negotiations and finalizing and implementing land claim settlement agreements on behalf of the Province. ONAS is not aware of any First Nation's land claims that will have an impact on this project.</p> <p>The proposed project may impact or be of interest to Aboriginal people. The Terms of Reference should refer to contacting First Nations with a potential interest in the project. Particularly, in light of the project's close proximity to Batchewana First Nation and the Garden River First Nation, we would encourage you to contact these First Nations for their comments on the proposed project. They can be contact as follows:</p> <p>Batchewana First Nation 236 Frontenac Street Sault Ste. Marie, Ontario P6A 5K9 Telephone: (705) 759-0914 Telephone: (705) 946-6300 Fax: (705) 759-9171 Fax: (705) 945-1415</p> <p>We suggest also contacting the following organizations that represent a number of First Nations to ask whether there are any other First Nations who may be interested in the project and wish to provide comments.</p> <p>Anishinabek Nation/Union of Ontario Indians Nipissing First Nation P.O. Box 711 North Bay, Ontario P1B 8J8</p>	

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments	Response
			<p>Association of Iroquois and Allied Indians 387 Princess Avenue London, Ontario N6B 2A7 Telephone: (519) 434-2761 Fax: (519) 679-1653</p> <p>As well, the Government of Canada sometimes receives claims that Ontario does not receive, or with which Ontario does not become involved. For information about possible claims in the area, we suggest you call or write to the following federal contacts:</p> <p>Nadia Bartolini A/Research Manager Specific Claims Branch Indian and Northern Affairs Canada 19 Wellington Street, Room 1610 Gatineau, Quebec K1A 0H4 Telephone: (819) 953-2228 Fax: (819) 953-4224</p> <p>Louis Trepanier Director Claims East of Manitoba Comprehensive Claims Branch Indian and Northern Affairs Canada 10 Wellington Street, Room 1610 Gatineau, Quebec K1A 0H4 Telephone: (416) 994-1121 Fax: (416) 963-3109</p> <p>ONAS also notes that the Terms of Reference indicate that a number of public open houses have been held regarding the project. Were First Nations invited to attend? If so, were any concerns raised by any First Nations at the meeting?</p>	<p>We will add these contacts to our mailing list.</p> <p>We will add these contacts to our mailing list.</p> <p>Public notification was provided and no comments were received. Individual notices will be provided for future consultation events.</p>

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
Ministry of Agriculture and Food	Mr. Ray Valaitis Rural Planner	Sept 7/04	Section 4.3 Potential Effects	
			Table 4.1 Environmental Components to be Considered in Evaluations	
			This table may be utilized to assess the effects of the preferred disposal alternative method such as a landfill site. The following additions are recommended:	This table has been moved to Section 5.3 of the Final Term of Reference.
			Environmental Component – Social, Page 8 Under “Indicators” it is recommended “number of farm families displaced on-site and off-site” be added.	The term “indicators” under this criterion will include all types of residences, including farm families.
			Economic – Agricultural/Forestry/Mining, Page 8 Under “indicators” it is recommended “(loss of farm operations, level of capital investment in farm operations (i.e. farm buildings and drainage improvements)” be added after “agricultural”.	The criteria will be refined as the process proceeds and these could be added at this stage.
			Economic – Transportation, Page 8 Under “Indicators” it is recommended “Impacts of haulage truck traffic on the movement of farm equipment” be added.	The potential for conflicts between landfill truck traffic and farm equipment is captured under economics.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			Section 5.3.2 Alternative Methods Evaluation Table 5.2 Proposed Evaluation Criteria for Alternative Methods Social-Cultural Environment – Proposed Evaluation Criteria, page 11 It is recommended under the first bullet point “and agricultural operations” be added after “residents” . Economics, Page 11 It is recommended “/” be replaced with “(loss of farm operations, level of capital investment in on-site farm operations i.e. loss of on-site farm buildings and drainage improvements) and” . It is recommended a new Criteria Group being “Transportation” and a new Proposed Evaluation Criteria “Compare potential impacts of haulage truck traffic on the movement of farm equipment” be added.	Table 5.2 has been moved to Section 4 and is now Table 4.2. This has been added. Typically, the type of farm including level of investment is qualitatively assessed under this criteria. The potential for conflicts between landfill truck traffic and farm equipment is captured under economics.
Ministry of Culture	Mr. Andrew Hinshelwood Heritage Planner / Archaeologist	Sept 17/04	In my review of this document, I note that this Ministry's concerns are identified in Table 4.1 (Archaeology and Heritage). We require that additional information on consideration and mitigation of adverse impacts to these environmental components is communicated to us as the project proceeds.	The Ministry will continue to be consulted.
Ministry of Tourism and Recreation	Ms. Elaine Lynch Manager	Sept 16/04	We have no comments.	No response required.
Ministry of Health and Long Term Care	Mr. Alex Timmins	Aug 18/04	We have no comments.	No response required.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
Algoma Health Unit	Dr. Allan Northan Officer of Health Bill O'Donnell	Nov 25/04	<p>In terms of preferred methods, we recently participated in a meeting with the Ministry of Natural Resources, the Ministry of the Environment and the City regarding the imminent closure of landfill sites in the Sault North Planning area. One of the options discussed was opening discussions with the City around a multi-user landfill site that could meet the needs of the City and Sault North. The terms of reference speak to 'waste disposal in the City' but perhaps it should include an outside of the City option too.</p> <p>In terms of environmental impacts we trust that the assessment will include a comprehensive discussion of the air quality and water quality impacts of the various options, both in the City and surrounding communities.</p>	<p>Comment noted. Flexibility has been incorporated into the document to allow the service area to be defined as the EA progresses.</p> <p>These discussions will occur.</p>
Ministry of Municipal Affairs and Housing	Ms. Heather Robertson Manager Mr. Steve May Municipal Housing Advisor	Sept 17/04	<p>As part of the Environmental Assessment process, it appears that some of the alternatives which will be assessed may include the consideration of a green field site outside of the City's municipal boundaries should a new land fill site be considered. Locating a new land fill site outside of municipal boundaries may create some unique issues, depending on the location.</p> <p>The Township of Prince currently has an Official Plan, however the plan is very old and its policies are not up to date with regards to adequately being able to address matters of provincial interest. Further, the Ministry of Municipal Affairs and Housing is the approval authority for amendment's the Township's Official Plan, and we would play a direct role through early consultation and approvals under the Planning Act in assessing the planning merits of a proposed OPA. Our involvement at the earliest opportunity would be beneficial for the project as a whole.</p>	<p>These points will be considered during the Environmental Assessment and will be incorporated into the evaluation of alternatives..</p>

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	Response
			<p>Potentially more troubling would be the consideration of a location within an unincorporated area in proximity to the City of Sault Ste. Marie. The Provincial Policy Statement, which is the Province's articulation of matters of provincial interest, issued under the Planning Act, indicates that in territory without municipal organization, the focus of development activity will be resource activates and resource-based recreational activities, unless the area forms part of a Planning Area.</p> <p>The Sault North Planning Area has been established by the province and includes certain geographic townships north of the City. Any proposal which may impact territory within this area should include consultation with the Sault North Planning Board. As with the Township of Prince, the Province is the approval authority for amendments to the Planning Board's Official Plan, however the Official Plan was approved by this Ministry in the Bill 20 policy environment, and is considered to be up to date as of today (keep in mind, though, that through this Ministry's Planning Reform initiative, we are likely to have a new Provincial Policy Statement and changes to the Planning Act in place prior to the end of the EA consultation; this may impact any proposal).</p> <p>There are other unincorporated areas located further from the City which are not within an identified planning area. I strongly caution the consideration of locating a land fill in these areas, as it does not appear to be supported by Provincial policy in place today, or proposed policy being considered now under Planning Reform.</p>	

TABLE 3.1
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Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
Ministry of Natural Resources	Ms. Janice Christian	Aug 27/04	1) Section 2: How much time is required to obtain approval for new disposal capacity?	A preliminary schedule (Figure 3) has been included in the Terms of Reference.
			2) Section 4: You indicate that the Service Area could be expanded. MNR would like to discuss the possibility of adding the Sault North Planning Board townships to the service area with representatives of TSH and the City of Sault Ste. Marie.	Comment noted. Flexibility has been incorporated into the document to allow the service area to be defined as the EA progresses.
			3) Section 4.2: When you refer to the existing environment, does this refer to the Service Area as defined previously? If so, do the population estimates include Prince Township and Rankin Reserve? You refer to the City when you are discussing Natural, Social/Cultural, Economic and Transportation Environments. Do you actually mean the Service Area? If not, discussion regarding Prince and Rankin Reserve should also be included in order to address and provide background on the entire Service Area. If so, the report should indicate that you are referring to the Service Area and not just the City.	Yes, the populations include Prince Township and Rankin Reserve. We are referring to the service area.
			4) Section 4.3 and Table 4:1	Table 4.1 is Table 5.1 in the final report.
			a) This section would benefit from some further information. For example, the criteria listed in the chart is rather brief.	More detailed criteria will be developed as the EA evolves.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<p>b) Table 4.1 - Natural Environment -Biology</p> <p>i) How is vicinity defined? For example, would vicinity refer to adjacent lands within 120 m of the site?</p> <p>ii) Terrestrial systems point should also include areas used for the movement of resident and migratory species.</p> <p>iii) What about significant wildlife habitat?</p> <p>iv) What about vulnerable, threatened and endangered species?</p> <p>v) What about hazardous lands?</p> <p>c) Table 4.1 – Socio-Cultural Environment</p> <p>ii) Are aboriginal values included in the archaeology and heritage sections? If so, please specify. We would recommend, however, that a separate section be incorporated to address aboriginal values which would include First Nation reserves and communities, and spiritual, cultural, ceremonial, and traditional use sites.</p> <p>iii) Both the Archaeology and Heritage sections should address built sites and/or landscapes.</p>	<p>This will be refined as the EA progresses.</p> <p>This will be considered as the EA progresses.</p> <p>This will be considered as the EA progresses.</p> <p>This will be considered as the EA progresses.</p> <p>This will be considered as the EA progresses.</p> <p>Archaeology is below ground features, heritage is above ground features.</p> <p>A separate criteria has been added.</p> <p>Agreed.</p>

**TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT**

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<p>iv) In the Social Component, what about the presence or recreational features such as trails or trail networks? What about public health and safety?</p> <p>d) Table 4.1 – Economic Environment</p> <p>i) What about tourism?</p> <p>5) Section 5.3.2 and Table 5.2 – this section is fairly broad, which may be appropriate at this stage; however, in future stages specific criteria should be developed. These could include short-term and long-term impacts; value of the feature being affected; magnitude of the effects; predictability of effects; reversibility/irreversibility (i.e. groundwater contamination could be very difficult to reverse); geographic extent of impacts. As well, impacts on terrestrial features and wildlife, and aquatic features and fisheries should be addressed.</p> <p>6) Section 5.33 – Opportunities or requirements for monitoring should also be identified during the impact assessment.</p> <p>7) Section 8.1 – Depending upon the site, Environmental Impact Studies may also be required at some point prior to approvals.</p>	<p>Recreational features are noted in the criteria.</p> <p>Tourism will be considered.</p> <p>During the conduct of the EA these criteria will be expanded.</p> <p>Agreed</p> <p>Agreed. This will be determined as the EA progresses.</p>
Ministry of Northern Development and Mines	<p>Mr. Robert J. Fraser Regional Land Use Geologist</p> <p>Mr. Tom Hernden Northern Development Advisor</p>	Aug 25/04	Our comments relate to the Ministry for Northern Development and Mines' (MNMD) mandate for promoting northern economic development and mineral development throughout the province. In general, MNMD has no significant concerns with the draft ToR, but offer the attached comments for your consideration.	

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<ul style="list-style-type: none"> MNDM notes that the ToR identifies criteria of evaluating alternatives of disposal (Table 5.2) but does not outline the process for how alternatives will be evaluated, who will do the evaluation, or where the proponent will source information for the evaluation. MNDM is pleased that the EA plans to acknowledge mining interests and mineral potential. The evaluation of alternate methods of disposal would be of great interest to MNDM, particularly through examining the "Socio-Cultural Environment and Economics" criteria listed in Table 5.2. On page 3, the ToR states that "the purpose of the undertaking is to provide long-term environmentally safe solid waste disposal capacity to serve the City and <u>area</u>". The document later states that the service area and area of study is the Township of Prince and Rankin Reserve (page 6). When taking into consideration supply of solid waste for future uses (i.e., incineration, landfill mining, etc.) the study may wish to consider the availability of materials in areas north and east of the City, for the following reasons. <ul style="list-style-type: none"> The unorganised area north of Sault Ste. Marie is experiencing similar problems with solid waste management. Prior to the year 2000, the Ministry of Natural Resources operated 4 active waste disposal sites in the Sault North Area. Currently only 1 active site remains (serving an area of 2,600 square km and a population between 6,000 – 10,000 permanent and seasonal residents). 	<p>Additional details will be provided as the EA evolves.</p> <p>Comment noted MNDM will continue to be informed and invited to participate as the EA evolves.</p>

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<ul style="list-style-type: none"> In September 2003, The Ministry of the Environment advised that one active site at Haviland will reach capacity in 5 to 6 months. MOE has also indicated that several municipalities located east of Sault Ste. Marie will have to look for new waste management solutions over the next few years. <p>The export of waste to a disposal facility in the United States is identified as an "Alternative to the Undertaking" (page 5). With this in mind, the proponent may wish to expand section 4.2 "Transportation Environment" (page 7) to note that the direct road link to the United States is Interstate 75. In addition to being the only road link from Canada to the US between Thunder Bay and Sarnia, I-75 provides a direct route through the US.</p>	<p>This discussion will occur.</p> <p>This will be considered in the evaluation.</p>
Sault Ste. Marie Region Conservation Authority	Mr. W. Alan Sloan Technical Advisor	Sept 25/04	We have no objections or other comments.	No response required.
Ministry of Transportation, Northeastern Region	Ms. Lynda Franklin-Allard Transportation Technician	Aug 17/04	It is not anticipated that there would be any direct impact to the Ministry of Transportation facilities as a result of the development of a long term waste management plan for the City of Sault Ste. Marie.	

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			The only potential issue that may be involved is access along the Kings Highway 17. If the preferred alternative is identified as a new landfill site or exporting waste elsewhere, then additional detailed information would be required by the Ministry. The issue of debris along the haul route on MTO's right-of-way would have to be addressed. There should be commitment from the owner/operator of the landfill site to undertake or maintain a clean-up or "off-site" litter control program along the highway corridor on an as required basis.	This will be considered during the evaluation.
Ministry of the Environment	Mr. Khaleed Khalfan Project Officer Environmental Assessment and Approvals Branch	July 8/04	<p>General Comments:</p> <ol style="list-style-type: none"> ToR should indicate that an executive summary will be prepared for the EA which will include a list of studies, reports and maps showing the location of the undertaking as required by Reg. 334. Should also indicate that the documentation will show traceability of the decision making process. Need to be careful in the ToR to not define the undertaking as "additional disposal capacity". The EA should be for a "problem/opportunity". The problem may be that SSM is "approaching capacity at the current site" or something similar. Or that they are looking for a "waste solution/option". Especially at: <ol style="list-style-type: none"> 1.3 – additional disposal capacity 2 – solid waste disposal capacity 4.3 – preferred disposal alternative 	<p>This has been added.</p> <p>This has been added.</p> <p>Only disposal requires EA approval. If the City reaches 60% diversion they will still require disposal capacity. The wording has been changed to "approaching capacity at the current site".</p>

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<p>2. Purpose and Description of the Proposed Undertaking</p> <p>1. As per 6.1(2)(a) of the Act, this should really be a “description of the purpose of the undertaking”.</p> <p>2. The ToR should still state that a description of the proposed undertaking will be defined and described in the EA.</p> <p>3. Again, be careful not to talk about “disposal capacity”, but rather the problem of decreasing capacity, or the need for a waste solution.</p>	<p>This has been changed.</p> <p>This has been changed</p> <p>Wording has been changed to “approaching capacity at the current site”.</p>
			<p>3.1 “Alternatives to” the Undertaking</p> <p>1. Wording such as: Alternatives... considered... “will include but not be limited to” and then listing them explicitly allows for flexibility in considering other “alternatives to” during the EA should other options arise.</p> <p>2. Under the “Increased Waste Diversion” option, the last line should not be included as part of this list. It is really part of the evaluation of this option as to whether or not further diversion is feasible.</p> <p>4.1 Service Area and Study Area.</p> <p>1. The last line, “the Study area will...” could be moved to the beginning of the paragraph and rather than saying it will be “defined” in the EA, perhaps saying it will be “further defined” after “alternatives to” is a preferable phrasing as some definition of the study area is implicit in the development of the ToR.</p>	<p>This has been changed.</p> <p>The sentence has been removed.</p> <p>This has been changed.</p>

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			4.3 Potential Effects	
			1. Table 4.1 talks about indicators at/in the vicinity of “the site”. Given that an alternative has not yet been decided, the indicators to be considered should be considered for “the current and/or potential sites”.	This has been changed.
			2. Again including the phrase, “will include but not be limited to” will allow for further components and indicators to be considered.	This has been changed.
			Figure 2 1. May want to lay out other consultation points as well. In phase 1, “public input on Draft ToR” is explicit, but nowhere else is consultation made obvious, though perhaps you are just trying to highlight the current stage.	The City is just trying to highlight the current stage. Additional consultation events are shown on Figure 3.
			5.3.1 “Alternatives to” Evaluation	
			1. In the second last paragraph, “rational” should be “rationale”.	This has been changed.
			2. Again, keeping the criteria flexible for evaluation of “alternatives to” and in fact for “alternative methods” as well can be achieved with the phrasing, “will include but not be limited to”.	This has been changed.
			3. I also wonder if perhaps the more detailed tables of criteria, rather than being listed in the “work plan” section, would not be more appropriate in Section 3 where the “alternatives to” and “alternative methods” are discussed leaving the “work plan” section as more of a listing of the overall key steps.	This has been changed.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			6. Consultation Plan	
			1. This should really be split into two pieces, one is the consultation "plan" to be included with the ToR. The other is the consultation "record" which should be a separate document from the ToR, but submitted with the ToR as supplementary information.	A separate consultation report has been prepared.
			2. I think that I appreciate what you are trying to show with the selected questions from the surveys, however I would suggest either including a complete copy of the survey (i.e. all questions), or even just summarizing the conclusions you have made. In the spirit of traceability, however the information should be available.	This has been moved to the consultation report.
			3. There is mention of newspaper articles, council presentations, meetings etc. Newspaper "notification", dates of the meetings, presentation material, minutes, or other summaries can be included as part of the consultation "record". Given that SSM has already completed much consultation for other phases of their waste management planning, in 6.2, you may want to mention that consultation will build on/continue from consultation that has already occurred. This explicitly recognizes that consultation has been occurring and continues to inform the process.	This has been moved to the consultation report. Agreed
Ministry of the Environment		Sept 2/04	Page 6 references the aquifer in the northern portion of the community. It should be noted that this is also one of the city's sources of ground water for municipal drinking.	This will be addressed under the hydrogeological criteria.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<p>With respect to alternatives to undertaking, the city should consider a regional landfill operation, i.e., wastes from outlying district residents.</p> <p>The city is dependent on groundwater for its municipal water supply. In 2002/2003, The Sault Ste. Marie PUC undertook an extensive groundwater study to map aquifers within the area, assess groundwater quality, document groundwater use, inventory possible contaminant sources and define wellhead protection areas for municipal wells. Given the importance of source protection, it is recommended that in the environmental components to be considered in evaluations (Table 4.1), under the geology/hydrogeology component, that the following items be added: wellhead protection areas of municipal supply wells; and, groundwater use (private and municipal). A third item that could be added, which may be somewhat more difficult to incorporate, is the consideration of future water resources development potential.</p> <p>In Table 4.1, the last section entitled "Atmospheric", along with its sub-heading belongs under the first section titled "Natural Environment". Similarly, Table 5.2 needs to include a sub-section under Natural Environment regarding "Atmospheric" with sub-headings for air-quality, noise and dust.</p>	<p>Comment noted. Flexibility exists to further define the service area as the EA evolves. Depending on the alternatives to be identified, these criteria will be considered.</p>
Ministry of the Environment		Sept 21/04	<p>Under section 8.1, the sub-section, "Other Approvals" should read: "Other approvals that may be required and that will be confirmed during the detailed site investigations and may include approval to construct on-site structures and facilities; approval under the Ontario Water Resources Act, Section 53 for storm water management, leachate collection, and disposal; and amendments to local Official Plans and Zoning By-Laws".</p>	<p>Table 4.1 has been moved to Section 5 and is now Table 5.1 Atmospheric has been moved under natural environment. Table 5.2 has been moved to Section 4 and is now Table 4.2. Section 8 is now Section 10 and the recommended change has been made.</p>

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			Page 4, Section 3.1, "Alternatives to" the Undertaking, bottom of page. The ToR differentiates potential sites as being within or outside the City Limits. Is this differentiation necessary given that the study area encompasses both? Is there a process or an understanding whereby sites within the City Limits is preferable to one outside?	We have revised the ToR to include only landfilling as an alternative and not differentiate between within and outside the City limits.
Sault Ste. Marie Economic Development Corporation	Mr. Norman Jaehrling Economic Development Officer	July 12/04	3.1 "Alternatives to" the undertaking We would suggest that Incineration and High Heat Processes be identified as two separate and distinct alternatives. We are of the impression that incineration is generally viewed by the public as an undesirable process due to related emissions and perceived deleterious environmental effects. High heat processes that can transform MSW into value added products such as biooil and electricity do not involve the incineration or burning of waste and are generally closed systems that have little or not emissions. It is important that the public understand that these processes are not the same; placing them in the same category may suggest public opposition to both and result in the disqualification of high heat processes from further consideration in the EA process. We would suggest that a new category of "High Heat/Waste to Energy Processes" be created to ensure this distinction is clear and the evaluation of the alternatives is fair. It is noted that SSMEDC is presently working with the City and Enquest Power Corporation on the evaluation and potential development of a waste-to-energy demonstration plant that would convert MSW into electricity utilizing a high heat process and fuel cell technology. This demonstration project will initially utilize 10,000 tonnes of waste annually and generate 1 MW of renewable energy. If successful, this process (and perhaps other similar technologies), have the potential to convert upwards of 95% of the municipal waste stream into value added products.	Under Guideline A-7, a thermal process is defined as any process that utilizes heat to accomplish physical and/or chemical change in the waste material. As such, high heat processes are defined as incineration.

TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT

Organization	Contact	Date Comments Received	Comments Received	
			Comments	Response
			<p>4.2 Economic Environment It may be noted that, among other things, SSMEDC is actively investigating and developing a variety of industrial opportunities based on the conversion of local municipal and industrial waste streams into value added products such as packaging materials, chemicals, biooil and electricity.</p> <p>5.3 Environmental Assessment Study It would seem that a combination of the proposed objectives might also meet the needs of the community vs. a single alternative. How will the EA process consider and accommodate this?</p> <p>Table 5.1 The evaluation criteria should also anticipate the opportunity for the City to enter into partnerships with the private sector to implement alternatives. The City may not have the ability to undertake an option, but the private sector may. In some cases, the private sector itself may be prepared to finance most or all of the costs related to the disposal of MSW (assuming that the waste can be profitably transformed into a value added product).</p> <p>There should be provisions in the EA to accommodate the demonstration of new technologies and the accommodation of emerging technologies as they are proven locally or in other jurisdictions.</p>	<p>Comment noted.</p> <p>This is possible as waste management systems include numerous components. The EA will consider this.</p> <p>Although not specifically stated, public/private partnership will be considered.</p> <p>New technologies may be considered.</p>

**TABLE 3.1
COMMENTS RECEIVED ON DRAFT TERMS OF REFERENCE DOCUMENT**

Organization	Contact	Date Comments Received	Comments Received		Response
			Comments		
			Table 5.2 It is important to consider the potential for displacement or disruption to existing businesses especially those who already provide services related to the handling, diversion and processing of MSW. We would propose that the potential for the creation of new businesses, investment and employment also be considered.		Agreed.

4. PROPOSED ENVIRONMENTAL ASSESSMENT CONSULTATION PROGRAM

Since initiating the Solid Waste Management Plan in 2000, the City has placed an emphasis on working with the public to develop an appropriate long-term solid waste management plan. The City recognizes the need to involve the public in the waste management planning process and will continue with this process throughout the EA study.

The City has adopted the following principles for consultation on this project:

- **include all stakeholders** in the consultation process;
- provide sufficient **information in a user-friendly format**;
- provide **opportunities for input before decisions are made**;
- be **flexible to meet the needs of the stakeholders** when undertaking consultation; and
- **be responsive** – listening to comments, giving them careful consideration, making changes where appropriate and providing rationale when no change is made.

The following presents the proposed consultation plan for the EA. This plan represents the minimum consultation as per the principles above and will be adjusted to meet the needs of the community throughout the EA where appropriate.

Access to Information

All meeting announcements, reports, etc. will be placed on the City and its Consultants web sites. The web site will be kept up to date as a repository of information so that those with access to the internet can download documents for information and/or review. Key documents will also be placed in the municipal office and libraries to provide other opportunities for access to information.

Workshops

Workshops will provide an opportunity for interested members of the public to assist in the EA process. Three workshops will be held during the preparation of the EA. The first will discuss the “alternatives to”, the evaluation criteria and their relative importance. The second will discuss the alternative methods, their evaluation criteria and relative importance. A third workshop will be held once the preferred alternative is identified to discuss impact management. The fourth workshop will be held to discuss the draft EA Summary Report and impact management strategy. The format of these workshops will allow discussion among participants.

Public Open Houses

Public Open Houses will be held at key points in the study to present information for public feedback. The Open Houses are anticipated to present the following preliminary decisions for public review:

- the preliminary preferred “alternative to”;
- the preliminary preferred “alternative method”
- the preferred alternative; and
- the draft EA and impact management strategy.

The format of these meetings will likely be a combination of display panels and discussions with those attending. Notification for the Public Open Houses will include advertisements in local newspapers, web sites and the local community channel and a mailing to those on the project mailing list.

Stakeholder Meetings/Networking

During the course of the study, the project team will network with stakeholders and agencies to ensure that they have the information they require to participate. This ongoing networking will include telephone discussions and meetings with key stakeholders. Stakeholder meetings will be held as the need arises.

Consultation Documentation

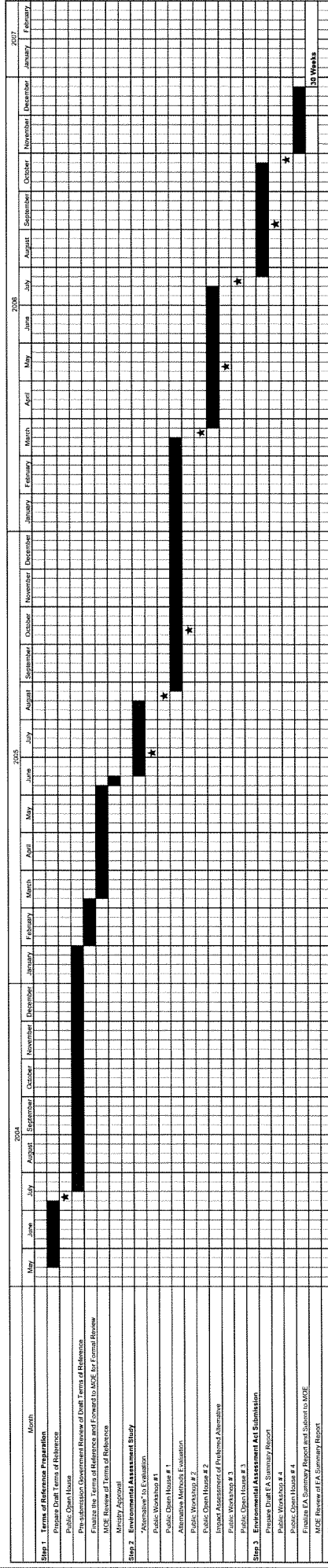
All input received as part of this project will be documented and will become part of the EA documentation. Every effort will be made to ensure that it is clear where changes were made as a result of public input and if no change was possible the reasons why will be provided.

5. ENVIRONMENTAL ASSESSMENT SCHEDULE

Figure 1 presents an estimate of the schedule to complete the EA Study.

The timeline to complete the EA Study is estimated and could change depending on the alternatives identified during the process. In addition, the length of the MOE reviews and approvals are estimated. A more detailed study schedule will be provided as the EA study progresses.

Figure 1
City of Saint Sts. Marie
Environmental Assessment Schedule



APPENDIX A

**OPEN HOUSE REPORT
SEPTEMBER 26, 2001**

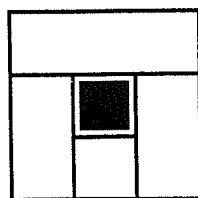
City of Sault Ste. Marie

SOLID WASTE MANAGEMENT PLAN

REPORT ON THE SEPTEMBER 26, 2001 PUBLIC OPEN HOUSE

October 2001

In Association With
Russell Environmental Services



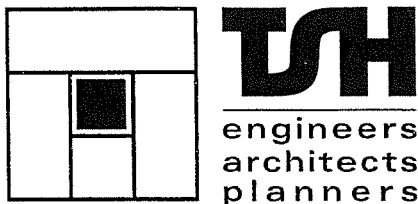
TSH
engineers
architects
planners

CITY OF SAULT STE. MARIE

SOLID WASTE MANAGEMENT PLAN

REPORT ON THE SEPTEMBER 26, 2001 PUBLIC OPEN HOUSE

TSH Project No. 38-60219



Totten Sims Hubicki Associates
523 Wellington Street East,
Sault Ste. Marie, Ontario, Canada P6A 2M4
(705) 942-2612 Fax: (705) 942-3642
E-mail: ssmarie@tsh.ca www.tsh.ca

October 12, 2001

Mr. Jim Elliott, P.Eng.
Manager of Construction and Environmental Engineering
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive
Sault Ste. Marie, Ontario
P6A 5N1

Dear Mr. Elliott:

Re: City of Sault Ste. Marie
Solid Waste Management Plan
Report on the September 26, 2001 Public Open House
TSH Project No. 38-60219

We are pleased to submit a report summarizing the input received at the September 26, 2001 Public Open House.

If you have any questions please do not hesitate to call.

Yours very truly,

Michael Cant
Project Manager

MC/wb
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Encl.

pc: Mr. R. Talvitie, P.Eng., TSH Sault Ste. Marie
Ms. P. Russell, P.Eng., RES

**CITY OF SAULT STE. MARIE
SOLID WASTE MANAGEMENT PLAN
REPORT ON THE SEPTEMBER 26, 2001 PUBLIC OPEN HOUSE**

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EXECUTIVE SUMMARY

On September 26, 2001 a Public Open House was held from 3:00 p.m. to 7:00 p.m. to present information to the public on the alternative waste diversion systems developed for the City of Sault Ste. Marie.

In total, 23 people signed into the meeting and 16 questionnaires were received.

In summary, the results of the questionnaires are as follows:

- all 16 respondents felt waste management was an important issue facing the City;
- all 16 respondents currently use their blue box and 15 would like to be able to put more materials in the blue box;
- 11 respondents would like more information on how and what can be recycled;
- 15 respondents felt that it was important to recycle more material even if it cost more;
- 14 respondents currently utilize backyard composters;
- 11 respondents felt that backyard composting was the best option to manage organic waste with curbside pickup and delivery of organic waste to a central facility the second preference;
- 4 respondents had used the household special waste depot, with 11 planning to;
- 14 respondents felt that waste management services should be paid through a fee based on the amount of garbage generated;
- 15 respondents felt businesses should pay the full cost of disposing their waste;
- 15 respondents felt System 5 (Collection and Composting of Organic Wastes) was the preferred way to manage the City's waste while 11 thought System 4 (Recycling of Expanded Materials) was the second preference;
- System 1 (Status Quo) was the least preferred of all the systems;
- 9 respondents indicated landfill mining as the preferred option for disposal, followed by landfill expansion; and
- incineration and export of waste to the United States were the least preferred disposal options.

**CITY OF SAULT STE. MARIE
SOLID WASTE MANAGEMENT PLAN
REPORT ON THE SEPTEMBER 26, 2001 PUBLIC OPEN HOUSE**

1. INTRODUCTION

A Public Open House was held from 3:00 p.m. until 7:00 p.m. on September 26, 2001 to present information to the public regarding the long term waste management plan, and in particular the alternative waste diversion systems, for the City of Sault Ste. Marie. The Open House was advertised in two separate editions of the local newspaper (see notice in Appendix A) and the community channel for a two-week period.

The open house was staffed by consultants from Totten Sims Hubicki Associates (TSH) and Russell Environmental Services (RES). Several City staff members were also in attendance.

Twenty display boards were available outlining the work that has been completed to date on the waste management study, including information on the current waste management system, proposed waste diversion systems and implementation options, and the estimated costs of the proposed systems. Copies of the displays are included in Appendix B. A slide show ran through a more extensive presentation of the solid waste management study.

Twenty-three people signed the attendance record, although there were additional attendees that did not sign in. Attendees were asked to complete a questionnaire so that the City could obtain public input on the development of a long term waste management strategy for the City. The questionnaire had a total of 13 questions, with space provided for additional comments.

The results of the questionnaires are compiled in Section 2. Although 16 completed questionnaires were received, not all respondents answered all of the questions, therefore the figures may not always sum to 16.

2. RESULTS OF QUESTIONNAIRES

Question 1: Do you think that waste management is an important issue facing the City of Sault Ste. Marie?

Yes:	16
No:	0
Don't know	0

Question 2: Do you currently use your blue box on a regular basis?

Yes, I put everything I can in the blue box	16
I use the blue box for some recyclables	0
No, I do not use the blue box	0

Question 3: Do you feel that you are given enough information on how and what you can recycle?

Yes	4
No	11

Question 4: Would you like to be able to recycle more materials in your blue box?

Yes	15
No	0
Don't know	0

Question 5: Do you think that it is important to recycle more material, even if the cost is more than the cost of the current waste management system?

Yes	15
No	1
Don't know	0

Question 6: Do you currently use a backyard composter at your home?

Yes	14
No	2
Sometimes	0

If you do not currently use a backyard composter, would you purchase and use one if the cost of the unit was subsidized by the City, so that your cost was approximately \$35?

Yes 3
No 0
Don't know 0

Question 7: The City is considering building a composting facility to convert organic waste into compost. If you could have organic waste (food scraps, yard waste) collected from your curbside each week, would you separate this material into a special box or bag?

Yes 12
No 3
Don't know 0

Question 8: How would you prefer to manage your organic waste (food scraps, yard waste)?
(Please rank these options from 1 to 4, with 1 being most preferred and 4 being least preferred)

- Option 1: Backyard composter at my home
Option 2: Take it to a composting site in the City of Sault Ste. Marie
Option 3: Put it in a special container to be picked up at curbside each week
Option 4: Put it in with regular garbage to be landfilled

RESPONSES TO QUESTION 8				
Ranking	Option 1	Option 2	Option 3	Option 4
1 (Most Preferred)	11	3	4	
2	1	2	6	1
3	1	7	2	
4 (Least Preferred)		1		8

Question 9: *Have you used the household hazardous waste depot?*

Yes 4
Not yet, but I plan to 11
No 1
Was not aware that it exists 0

Question 10: Would you prefer to pay for waste management services through taxes or through a fee based on the amount of garbage you generate (i.e. user fee) ?

Property tax 0
User fee 14
Don't know 2

Question 11: Do you think that businesses should pay the full cost of disposing of their garbage?

Yes 15
No 0
Don't know 0

Question 12: How do you think the City of Sault Ste. Marie should manage its recycling program? Five alternatives have been developed and are listed below. (Please rank these options from 1 to 5, with 1 being most preferred and 5 being least preferred)

- System 1: The same system as is currently provided (potential diversion 10-23%)*
- System 2: System 1 components plus biweekly collection of yard waste during the May to October season (potential diversion 12-23%)*
- System 3: System 2 components plus the collection of corrugated cardboard from curbside (potential diversion 13-23%)*
- System 4: System 3 components plus the recycling of additional materials, such as cereal boxes, plastic film, juice containers, etc. (18-30%)*
- System 5: System 4 components plus the collection and composting of organic wastes (potential diversion 37-52%)*

RESPONSES TO QUESTION 12					
Ranking	System 1	System 2	System 3	System 4	System 5
1 (Most Preferred)					15
2				11	
3		1	9		
4		8			
5 (Least Preferred)	10	1	1	1	

*Question 13: The Sault Ste. Marie Landfill is expected to reach capacity in 10 – 12 years. How do you think the City of Sault Ste. Marie should manage its garbage once the existing landfill site is full?
(Please rank these options from 1 to 7, with 1 being most preferred and 7 being least preferred)*

Option 1: Incineration (burning)

Option 2: New Landfill Site in City Limits

Option 3: New Landfill Site Outside City Limits

Option 4: Export Waste Elsewhere in Ontario (e.g. Adam's Mine)

Option 5: Export Waste to United States

Option 6: Expansion of Existing Landfill

Option 7: Landfill Mining (rework existing landfill site)

RESPONSES TO QUESTION 13							
Ranking	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
1 (Most Preferred)	1	1	1			2	9
2	1	1	2			6	1
3		5	3			2	
4		2	3	1	1		1
5	4			1	1	1	
6		2		2	1		
7 (Least Preferred)	5	1	2	3	5	1	

3. ADDITIONAL COMMENTS

Almost all of the respondents took advantage of the opportunity to provide additional comments on the questionnaire. The respondent's understanding of the issues and the extent of the comments were encouraging. In general, the respondents seemed to be strongly in favour of more education on waste diversion, more reuse opportunities, and user fees (particularly if some free tags were provided). There was some concern that long term disposal options were not presented in sufficient detail. This is due to the fact that the intent of this Open House was to present information on potential waste diversion systems. One display board outlined the disposal options that would be considered in the study. Another Public Open House is planned later in the study to present the finding of the disposal study.

All of the comments provided by the respondents on the questionnaires are included below.

I realize that the permutations of options are too great to present all of them at this open house. Has consideration been given to an incremental approach to diversion options? For example a 1 or 2 year period where System 4 and option A are exercised, to allow people to be more accustomed to the new systems. The progression to either System 5, or Option C, or both would be part of the successional waste management program.

There is very little information on the longer term options available to the city – eventually the landfill will be full. Many people will take home the idea that implementing an increased recycling program along with increased collection and tipping fees will resolve the issue. How does your presentation prepare residents for the long term issues? Is this beyond the terms of the consultation?

I found the open house staff to be very approachable and extremely knowledgeable. Thanks.

I think that it's great that Sault Ste. Marie is looking early at its options! People do have to realize that garbage costs all of us! That being said question 13 is quite ambiguous – the combinations of some of these options can be horrendous. More information is necessary to explain the options, i.e. incineration in Japan is relatively clean and provides energy for sale. If in this context it means that everyone gets a backyard barrel – this is not good! While I realize that paying for garbage will not be popular, it is the way of the world. The idea of increasing the recycling would be great and should really increase diversion from landfill. Unfortunately it will have to be a “forced program” here – i.e. pay for what you dispose of.

We need a massive education program. The schools must participate. Institutions/businesses can help lead the way. The environmental cost of doing nothing could also have a price tag attached. We must also publish the costs to develop/prepare a new site in today's dollars and in 10 years or 20 years.

All school garbage must be recycled as a required part of the education of our children!

Business/consumer user fees to be implemented.

This should have been done 25 years ago and delaying it will only increase cost! I believe in user pay!

Over past summer I have placed large quantities of household goods (webless lawn chairs, furniture, aluminum and wood storm windows and screens etc.) and about 95% of the items were picked up by passing citizens. Suggest serious consideration be given to curbside "scrounge days" once or twice a year. It works very well in Peterborough, Ontario and based on my experience, it could work well here.

Christmas tree pick-up ends about one week too early. Leaf collection days might need to be started one week later also extended depending on when the leaves are almost all down.

Clean North has long advocated a "reverse" user fee system, whereby households receive a certain number of bags/tickets for "free" when they pay property tax, or on similar yearly date. These could be traded with neighbours or refunded if not needed, while additional tickets or bags would be available for purchase if needed. This would establish the habit and thus minimize the trash-to-ravines problem that user fees sometimes bring. I would encourage waste minimization through a "reward" rather than a "punishment" approach.

City should post waste management system changes, with links to City sites, on <http://cleannorth.org>, a publicly accessible site which encourages reader comment, and receives 80-100 hits per day from people looking for environmental information.

Sewage sludge diversion is an obvious area for dramatic improvement. With a sewer use by-law that required dental labs and photo shops to separate metal solutions, our sludge could be composted for land application, especially for the forestry sector. It might even be an economic generator for this area if it proved useful in tree plantations. Propose a research project to the silviculture experts at Canadian Forest Services lab here.

REDUCE should be the main focus!

Concerns - Would education \$ to make residents aware of alternatives to non-essential (single-use disposable) waste (i.e. juice boxes, plastic film). Is there an emphasis on REDUCE, REUSE in any of the waste management plans? I have concerns about the recycling of materials that a) are hard to recycle b) are unnecessary waste.

Look for programs that reward citizens as opposed to punish waste management (i.e. provide two free tags/household with incentive to get money back for tags not used and education program to help people reduce).

Some of this is out of City control, but worth questioning. When I buy some products like ketchup, juice I can only purchase them in plastic. The whole question of refillable should be brought forward again (pressure on Province and Federal policy by municipal).

How much promotion has the City done to promote Reuse, Recycle in our residential community. Why are other northern communities doing so much better in retrieving recyclables? Has this been researched? The Hailifax example comes to mind.

Landfill – any new landfill site location should be carefully selected. I have grave concerns about any changes made to existing landfill considering new leaching problems and the fact that it sits on the aquifer recharge area.

We need to look after our own waste (i.e. no transport out of town). Must learn to reduce waste going to landfill site.

Total commitment by the City to put in place a waste management system based on total recycling/reuse. Purchase a plant to source separate. Implement a program to educate the public on curbside separation.

I would support incineration if it were proven to be clean burning (no toxic gases emitted) and if heat could be used to generate electricity.

The City should put more effort into notifying residents of alternative recycling facilities e.g. depot for boxboard on Wallace Terrace.


A user pay system should encourage citizens to take responsibility for waste management/reduction.

Working with manufacturers to encourage/legislate the reduction in packaging would also be desirable (may be a provincial/national issue more than municipal). Presumably if new jobs could be created with waste diversion systems there could be provincial/federal job creation \$ available.

My response to Question 12 assumes that tipping cost increases (to \$65) would reduce the cost of Option No. 5 to close to 2001 levels.

A REUSE CENTRE for all businesses and residents.

All of which is respectfully submitted,



for Pamela Russell, P.Eng.

APPENDIX A

NEWSPAPER ADVERTISEMENT

City of Sault Ste. Marie

Long Term Solid Waste Management Plan Waste Diversion

Public Comment Invited

The City of Sault Ste. Marie landfill site is estimated to have sufficient capacity to meet the needs of the community for the next 10 – 12 years. In order to ensure adequate provisions are in place for the management of the future solid waste stream, a study has been commissioned to provide the city with direction on all aspects of its solid waste management system for the next 25 to 40 years.

A four-phased study is being undertaken with the goal to develop a practical, economically feasible, environmentally acceptable and technically competent long term waste management system for the City of Sault Ste. Marie.

The first phase of the study relates to the diversion of solid waste. The City of Sault Ste. Marie is presently diverting approximately 8% of the solid waste stream. This is a relatively low level of diversion compared to other municipalities in the province. A total of five alternative diversion systems and four implementation options have been developed and evaluated and a preliminary preferred diversion system has been selected. The City of Sault Ste. Marie would like to solicit input from the public on the alternative diversion systems considered.

An informal ***Public Open House*** will be held on **Wednesday September 26, 2001 in the Thompson Room at the Civic Centre** (99 Foster Drive) to review the preliminary study materials, and to receive input and comment from interested parties. All members of the Public are welcome to attend at **any time between the hours of 3:00 pm and 7:00 pm on the above noted date.**

The project consultants and city staff will be available to discuss the alternatives considered and to obtain feedback from the public.

Following the meeting further comments are invited, for incorporation into the planning of this project, and will be received at the address noted below until October 26, 2001.

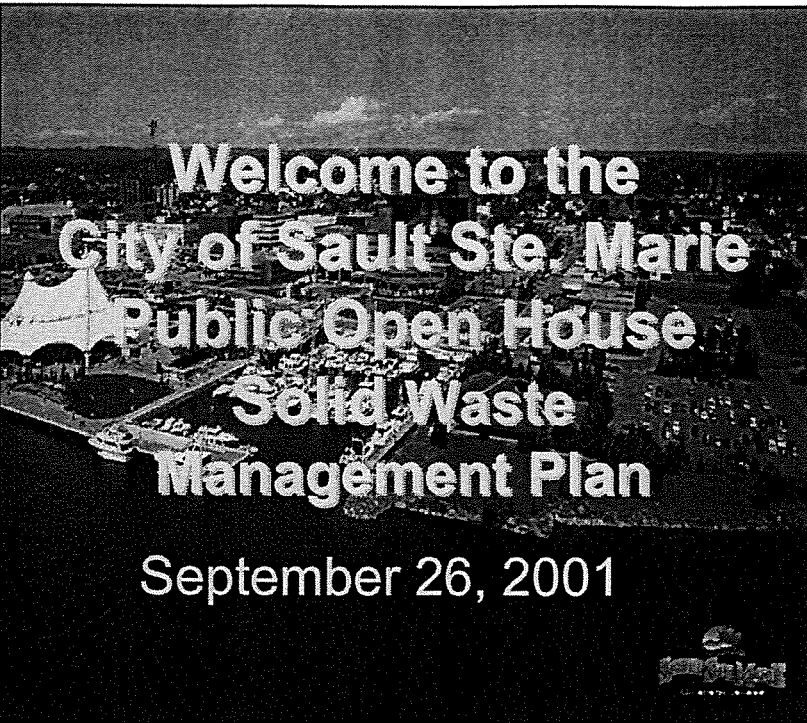
City of Sault Ste. Marie
Civic Centre
99 Foster Drive
Sault Ste. Marie ON P6A 5N1

Attention: J. Elliott, P.Eng.

This Notice issued on September 15 and 22, 2001.

Jim Elliott, P.Eng.
Environmental/Construction Engineer
City of Sault Ste. Marie

APPENDIX B
DISPLAY BOARDS



**Welcome to the
City of Sault Ste. Marie
Public Open House
Solid Waste
Management Plan**

September 26, 2001


September 26, 2001
Public Open House

SH
engineers
architects
planners

RES

Sault Ste. Marie
Michigan

Study Approach

1. Review Historical Waste Management Records.
2. Identify Problems / Opportunities.
3. Identify and Evaluate Alternative Diversion / Collection Systems.
4. Identify and Evaluate Alternative Waste Disposal Systems.  **We are Here**
5. Develop a Preferred Waste Management System Including a Business and Implementation Plan.
6. Prepare the Environmental Assessment Terms of Reference.

September 26, 2001
Public Open House

SH
engineers
architects
planners

RES

Sault Ste. Marie
Michigan

September 26, 2001
Public Open House

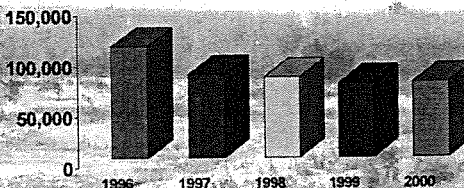


RES

Waste Disposal

- Total Tonnes of Waste Landfilled over the past five years:

Year	Waste to LandFill
1996	110,000
1997	82,000
1998	79,000
1999	73,000
2000	74,000



- Reductions from 1996 largely due to the G.P. Flakeboard and St. Mary's Paper eliminating their waste (23,000 tonnes)



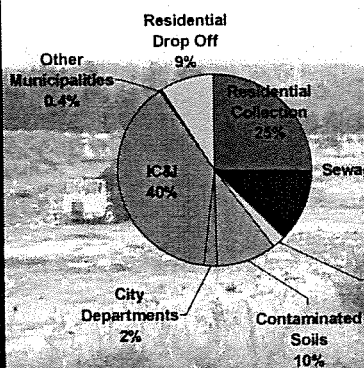
September 26, 2001
Public Open House



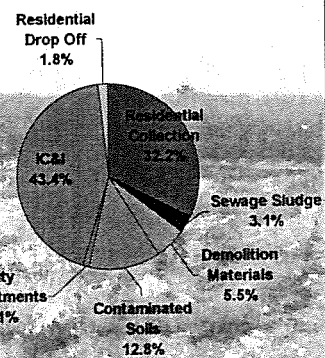
RES

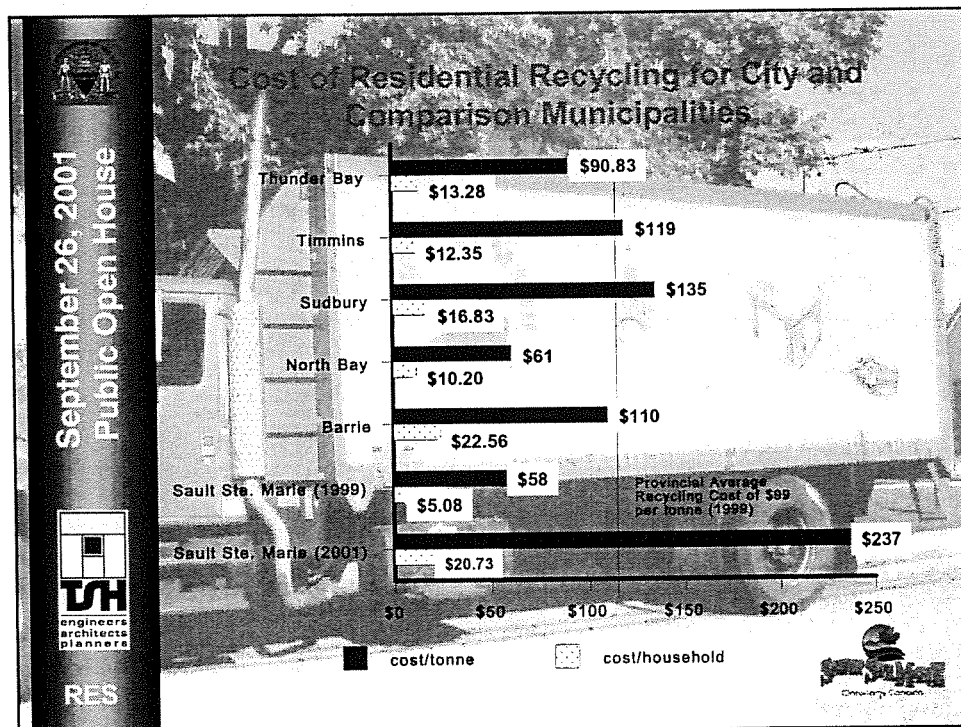
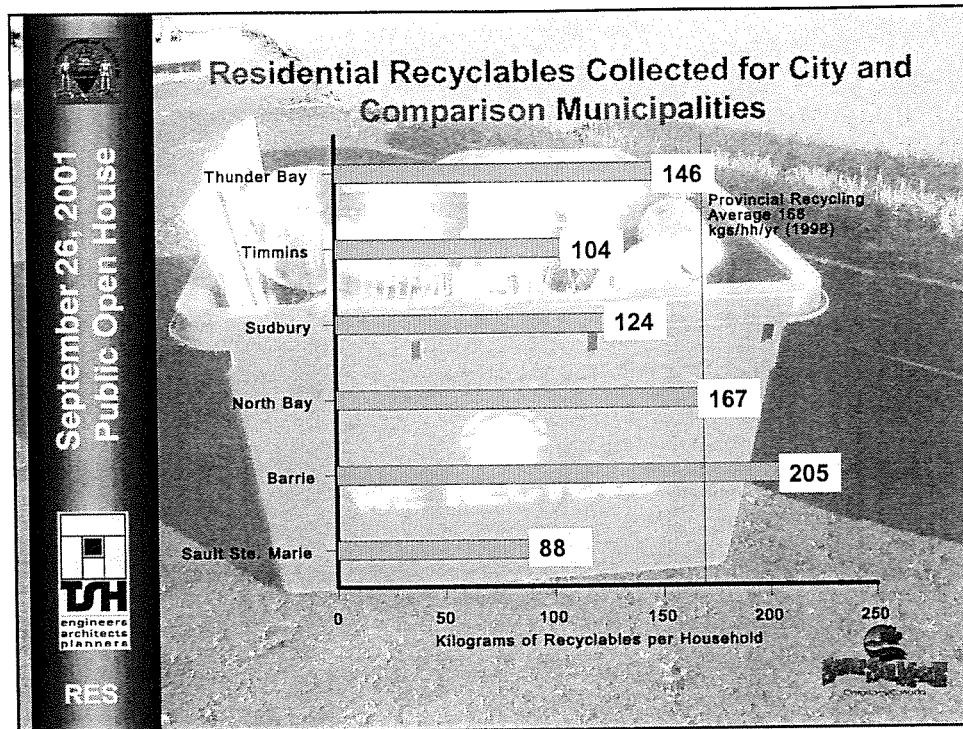
Waste Disposal

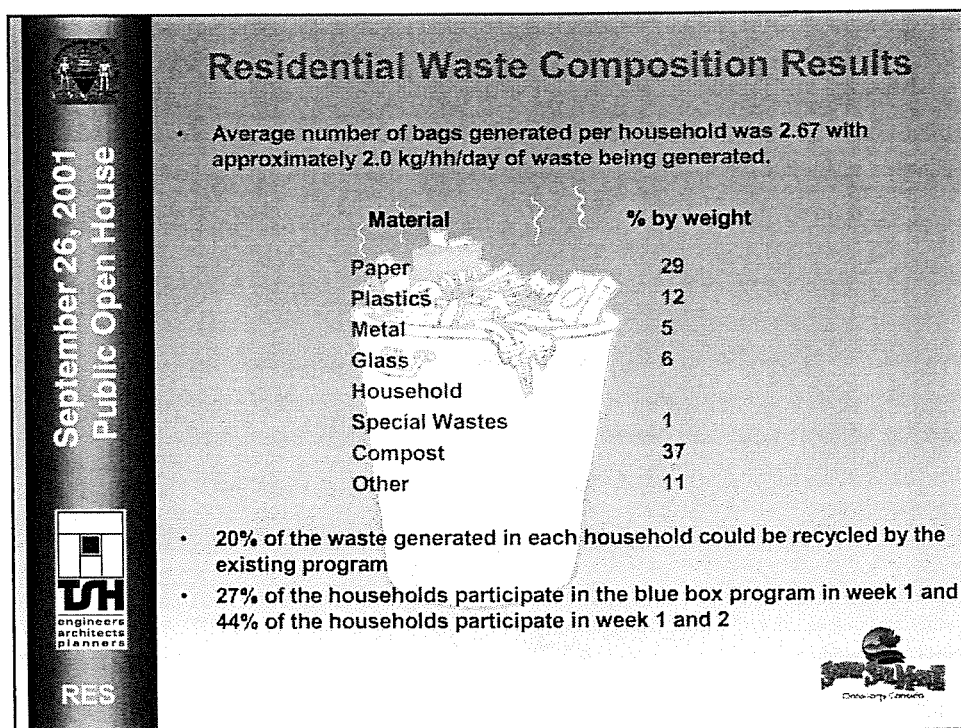
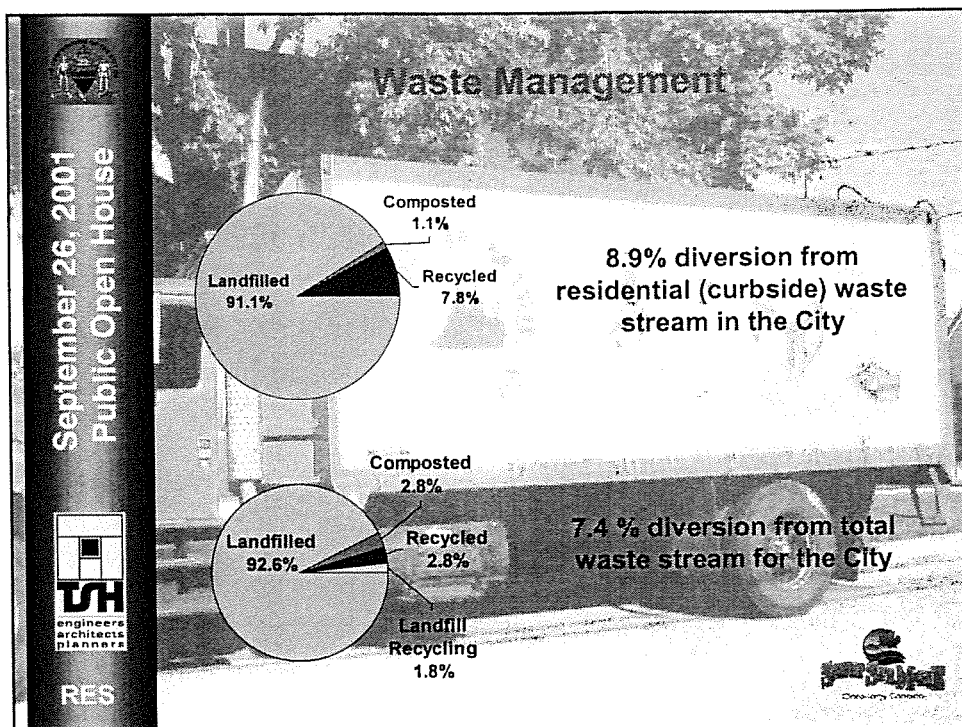
Sault Ste. Marie Landfill



North Bay Landfill







September 26, 2001
Public Open House



RES

Problems / Opportunities

- Existing landfill will reach capacity in 10-12 years time.
- A low level of diversion is being achieved in the City of Sault Ste. Marie

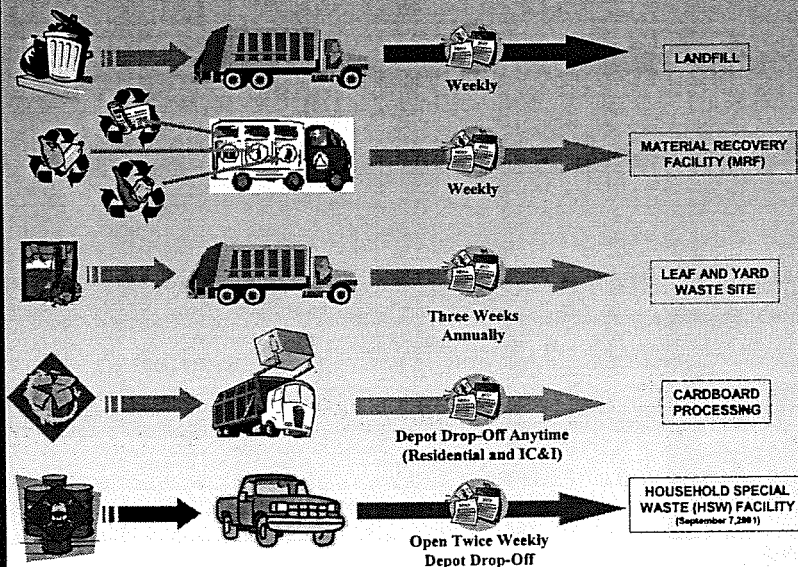


September 26, 2001
Public Open House



RES

Existing Solid Waste Management System





September 26, 2001
Public Open House



RES

Implementation Options

Options

- Basic
 - Current 6 Bag Limit and \$27.50/tonne landfill tipping fees
- A
 - Two free bags for residents weekly, purchase bag tags for each extra bag at \$2/bag.
 - Increase tipping fees to \$65.00/tonne.
- B
 - \$2/bag tags required for each bag of waste at the curb from residential sector.
 - Tipping fees remain at \$27.50/tonne.
- C
 - \$2/bag tags required for each bag of waste at the curb from the residential sector.
 - Increase tipping fees to \$65.00/tonne.



September 26, 2001
Public Open House

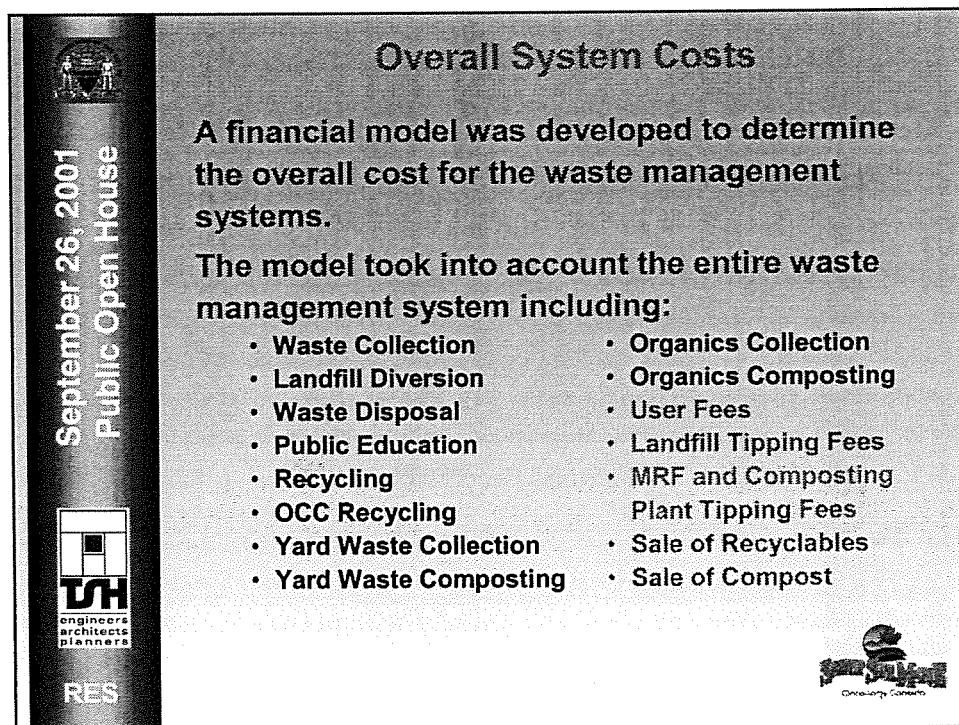
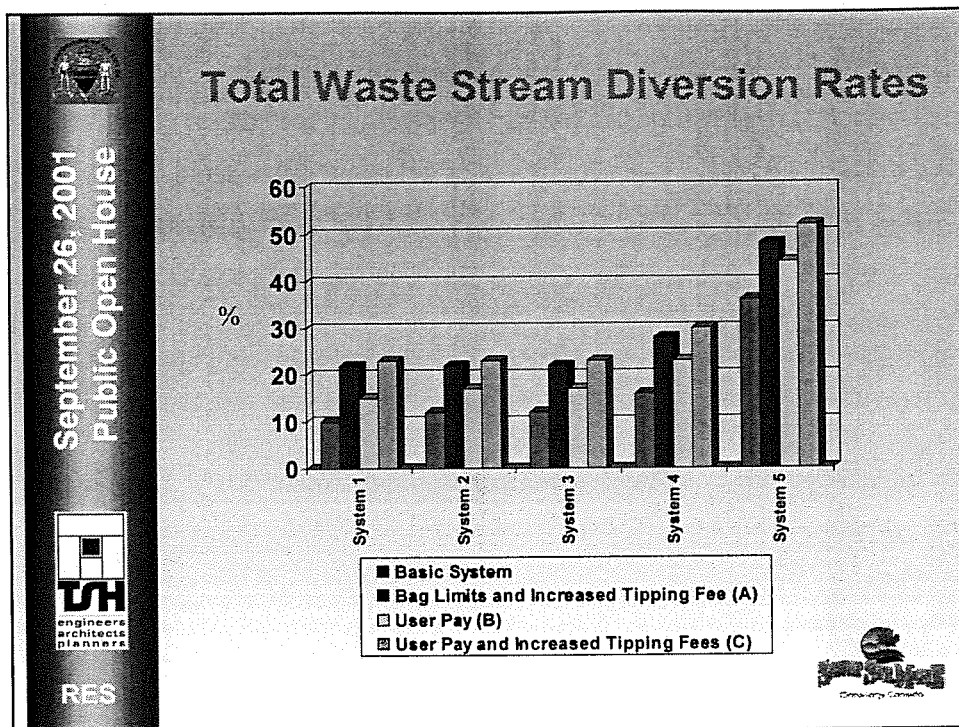


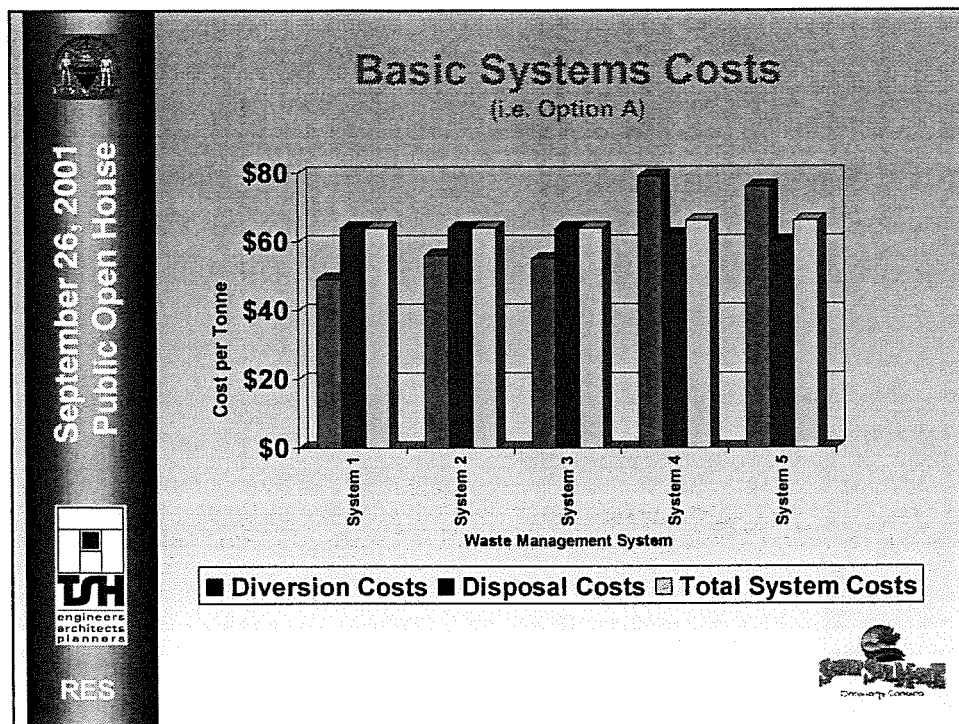
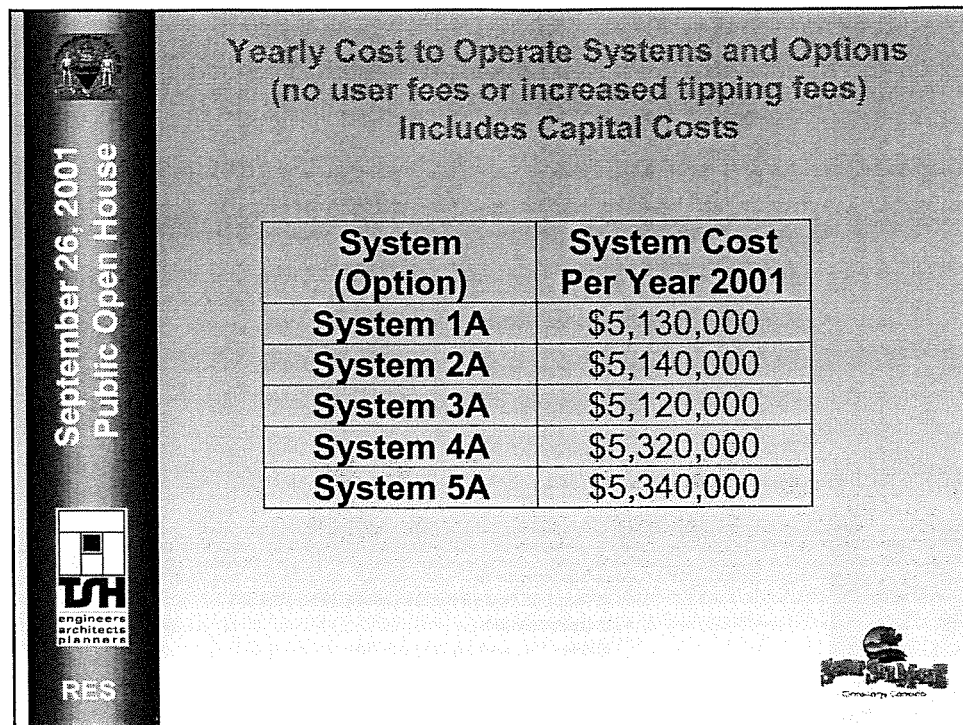
RES

Potential Waste Diversion Systems


System	Implementation Option		
	Bag Limits and Higher Disposal Fees (A)	User Pay (B)	Higher Disposal Fees (C)
1(Basic)			
1A	✓		✓
1B		✓	
1C		✓	✓
2(Basic)			
2A	✓		✓
2B		✓	
2C		✓	✓
3(Basic)			
3A	✓		✓
3B		✓	
3C		✓	✓
4(Basic)			
4A	✓		✓
4B		✓	
4C		✓	✓
5(Basic)			
5A	✓		✓
5B		✓	
5C		✓	✓







September 26, 2001
Public Open House




RES


Preliminary Systems Evaluation

Criteria	System					
	1	2	3	4	5	
Marketability of Materials and Products	★	★	★	★	★	
Compliance with Legislation	★	★	★	★	★	
Flexibility	★	★	☆	★	★	★ - Less Favorable
Availability and Expertise of the Private Sector	☆	☆	☆	★	★	☆ - Neutral
Partnership Possibilities	★	★	★	★	★	★ - Most Favorable
Diversion from Landfill	★	★	★	★	★	
Overall System Costs	☆	☆	☆	☆	☆	
Public Acceptability						
Overall Evaluation Before Public Input	★	★	★	★	★	

You are encouraged to provide input to all of the evaluation criteria



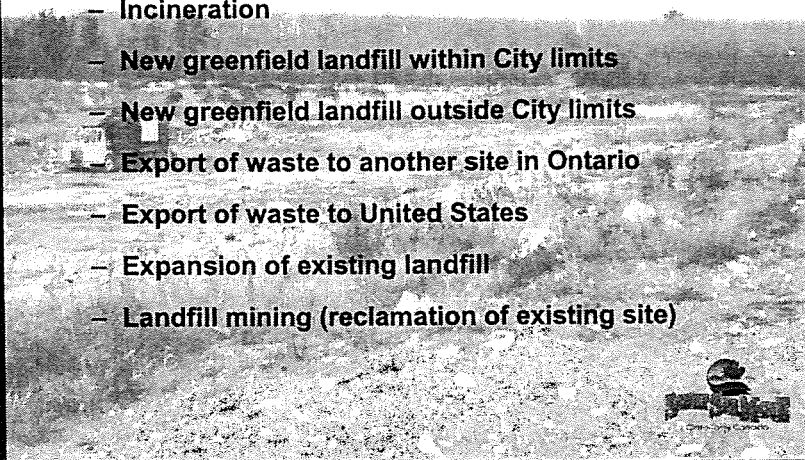

September 26, 2001
Public Open House




RES


Waste Disposal Options

- The following disposal options are being considered:
 - Incineration
 - New greenfield landfill within City limits
 - New greenfield landfill outside City limits
 - Export of waste to another site in Ontario
 - Export of waste to United States
 - Expansion of existing landfill
 - Landfill mining (reclamation of existing site)



September 26, 2001
Public Open House




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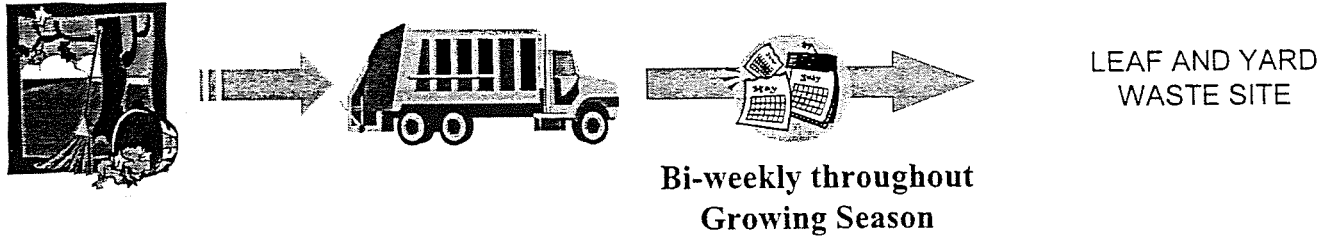
Next Steps

- September 26, 2001
 - Public Open House on Waste Diversion Options and Preliminary Disposal Options
- October, 2001
 - Finalize Disposal Options
- November, 2001
 - Business and Implementation Plan
- January 2002
 - Public Open House on Preferred Solid Waste Management System

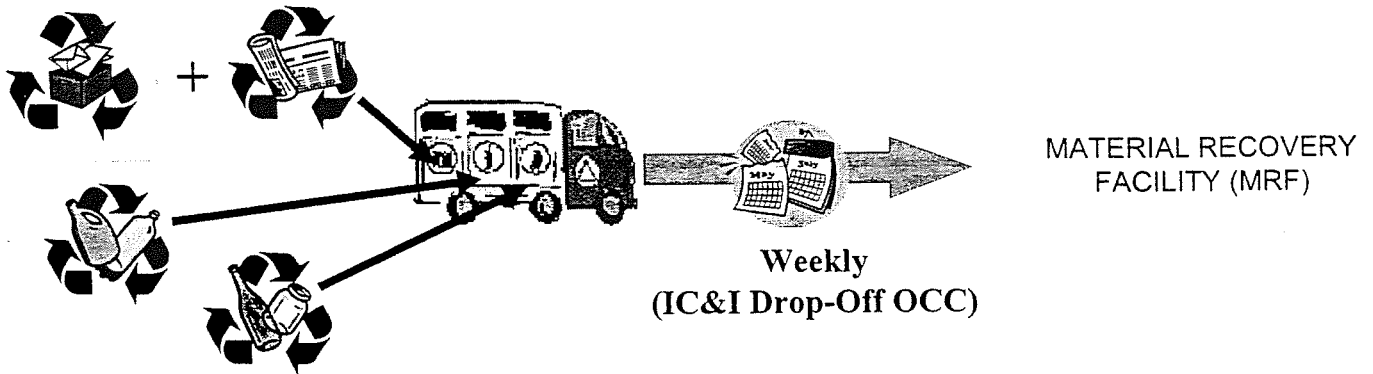


Alternative Diversion Systems

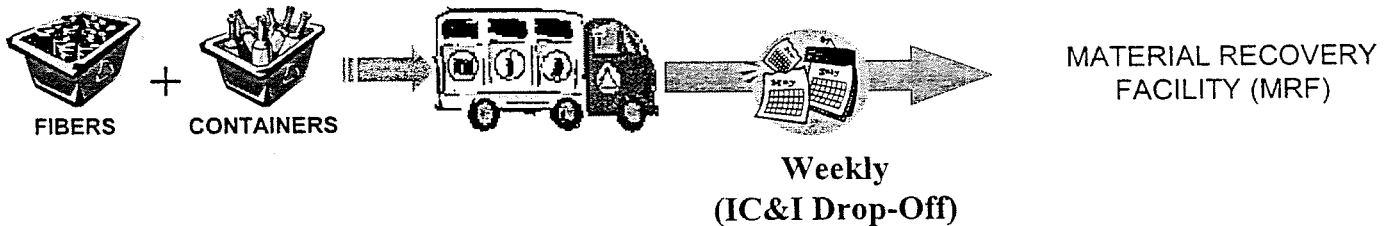
SYSTEM 2 - Increased Yard Waste Collection



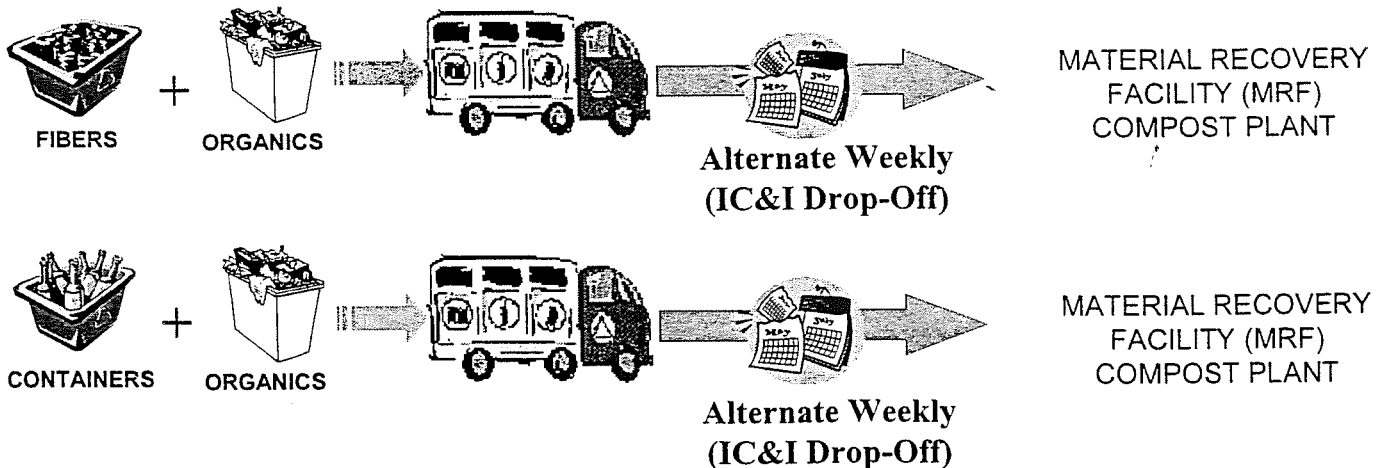
SYSTEM 3 - Curbside Collection of OCC



SYSTEM 4 - Recycling of Expanded Materials



SYSTEM 5 - Curbside Collection of Organic Wastes



APPENDIX B

**OPEN HOUSE REPORT
MARCH 18 AND 19, 2003**

City of Sault Ste. Marie

SOLID WASTE MANAGEMENT PLAN

**REPORT ON MARCH 18 AND 19 2003
PUBLIC OPEN HOUSES**

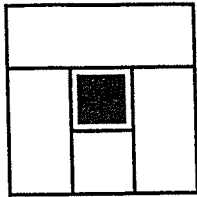
May 2003

CITY OF SAULT STE. MARIE

SOLID WASTE MANAGEMENT PLAN

REPORT ON MARCH 18 AND 19 2003 PUBLIC OPEN HOUSES

TSH Project No. 38-60219



TSH
engineers
architects
planners

40 Years

Totten Sims Hubicki Associates
523 Wellington Street East,
Sault Ste. Marie, Ontario, Canada P6A 2M4
(705) 942-2612 Fax: (705) 942-3642
E-mail: ssmarie@tsh.ca www.tsh.ca

May 9, 2003

Mr. Don Elliott, P.Eng.
Manager of Construction and Environmental Engineering
City of Sault Ste. Marie
P.O. Box 580
Civic Centre, 99 Foster Drive
Sault Ste. Marie, Ontario
P6A 5N1

Dear Mr. Elliott:

Re: City of Sault Ste. Marie
Solid Waste Management Plan
Report on March 18 and 19 2003 Public Open Houses
TSH Project No. 38-60219-5

We are pleased to submit our report summarizing the input received at the March 18 and 19, 2003 Public Open Houses.

If you have any questions, please do not hesitate to contact the undersigned.

Yours very truly,

for Michael Cant
Manager, Solid Waste

MC/wb
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Encl.

pc: Mr. R. Talvitie, TSH Sault Ste. Marie

**CITY OF SAULT STE. MARIE
SOLID WASTE MANAGEMENT PLAN
REPORT ON MARCH 18 AND 19, 2003 PUBLIC OPEN HOUSES**

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1.2 Public Open Houses	2
2. QUESTIONNAIRES	3
2.1 Responses to Questionnaire	3
2.2 Additional Comments on Questionnaire	6
3. ADDITIONAL PUBLIC INPUT	7

LIST OF APPENDICES

Appendix A – Newspaper Advertisement
Appendix B – Display Boards
Appendix C – Questionnaire
Appendix D – Additional Input

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EXECUTIVE SUMMARY

On March 18 and 19, 2003, Public Open Houses were held at the John Rhodes Community Centre and Korah Collegiate to present information to the public on the Solid Waste Management Plan and, in particular, the alternative user pay options being considered.

In total, 29 people signed into the meetings and 29 questionnaires were received.

In summary, the results of the questionnaires are as follows:

- all 29 respondents felt waste management was an important issue facing the City;
- 58 percent of the respondents had between 3 and 5 people living in their house;
- 62 percent of the respondents put out 2 or 3 bags of garbage a week;
- 100 percent of the respondents used the yellow and blue boxes on a regular basis;
- 72 percent of respondents reduced the number of large garbage bags produced by one through the blue and yellow box program;
- 57 percent of the respondents support a city-wide composting program;
- 90 percent of the respondents preferred to pay for waste management services through a user fee instead of an increase in property taxes;
- 54 percent of the respondents ranked the following user fee scenario as preferred:
 - 2 bag limit; fee for each bag in excess of that limit;
 - increase gate fee to \$4.00 in 2003;
 - increase landfill tipping fees to \$65.00/tonne by 2006;
- 92 percent of the respondents ranked the following user fee scenario as the least preferred:
 - increase property taxes by \$40.00 - \$50.00 per household in 2003;
 - leave gate fee at \$2.00/visit;
 - leave tipping fee at \$27.50; and
- 76 percent of respondents felt businesses should pay full cost of disposing of their garbage.

**CITY OF SAULT STE. MARIE
SOLID WASTE MANAGEMENT PLAN
REPORT ON MARCH 18 AND 19 2003 PUBLIC OPEN HOUSES**

1. INTRODUCTION

1.1 Background

As part of the Solid Waste Management Planning Process being undertaken by the City, two reports were presented to Council on February 10, 2003 and included:

- Waste Collection and Disposal Report; and
- Business and Implementation Plan.

The first report entitled *Waste Collection and Disposal* detailed the evaluation of seven disposal alternatives and rated them in the following order from most preferred to least preferred:

- 1) landfill mining;
- 2) expansion of existing site in Ontario;
- 3) export to another site in Ontario;
- 4) export to the United States;
- 5) greenfield site outside City limits;
- 6) greenfield site in City limits;
- 7) Incineration.

The report recommended that the City proceed with an Environmental Assessment to further explore the viability of landfill mining and expansion of the existing site.

The second report entitled *Business and Implementation Plan* was prepared to assist the City in preparing for the future expenditures required to establish additional waste disposal capacity, implement new expanded diversion programs and manage environmental controls at the existing site.

The principal conclusions of this report included the recommendation to implement a Partial User Pay system known as System 4 Partial User Pay Option C, which includes the following elements:

- a reduction in the bag limit from six bags per household per week to two bags per household per week commencing in 2003 (the waste audit reported an average of 2.67 bags per household);
- a bag fee of \$2.00 per bag for each bag set out in excess of the two bag limit;
- an increase in the landfill gate fee to \$4.00 (from \$2.00) in 2003, then to \$6.00 in 2006; and
- an increase in the tipping fees to \$65.00 (from \$27.50) per tonne by 2006. This will be done gradually between 2003 and 2006. (\$27.50 is the lowest in the Province, the Provincial average is \$68.81).

The following was recommended to Council:

- that Council adopt the *Waste Collection and Disposal* report recommendation that mining and expansion of the existing site is the preferred solution to the problem of landfill capacity;
- that the City prepare an Environmental Assessment Act Terms of Reference for submission to the Ministry of the Environment recommending that landfill mining and expansion of the existing site be the alternatives assessed in detail to provide future landfill capacity at the site; and
- that Engineering proceed with public consultation to solicit input on the recommendations of the *Business and Implementation Plan* and report back to Council for approval of final recommendations.

Council approved the above recommendations and requested that two Public Open Houses be held.

Leading up to the Council meeting on February 10, 2003 and following the Council meeting, a significant amount of interest in the implementation of user fees appeared in the local papers and media websites.

1.2 Public Open Houses

Public Open Houses were held on March 18 and 19, 2003 to present information to the public on the Solid Waste Management Plan and, in particular, the alternative user pay options being considered.

The Open Houses were advertised as follows.

- Sault Star (March 8th and 15th);
- Sault This Week (March 12th);
- Local Community Channel (March 4th to 18th)
- Soo Today.com; and
- local radio stations.

The hours and locations of the Open Houses were as follows:

- | | |
|------------------------------|------------------------|
| • March 18, 2003 | • March 19, 2003 |
| 3:30 p.m. to 7:30 p.m. | 4:30 p.m. to 8:30 p.m. |
| John Rhodes Community Centre | Korah Collegiate |

The Open Houses were staffed by consultants from TSH. Several City representatives were also in attendance.

A number of display boards were available outlining the work that had been completed to date on the waste management study including:

- preferred waste diversion system;
- preliminary results of the pilot co-composting study;
- options for disposal of residential waste;

- projected waste management systems costs;
- alternative methods available to recover the costs; and
- the Environmental Assessment Act Terms of Reference.

Copies of the displays are included in Appendix B.

Nineteen people signed into the March 18 Open House and nine people signed into the March 19 Open House. Attendees were asked to complete a questionnaire so the City could obtain input into the Waste Management Plan. The questionnaire had a total of 12 questions, with space provided for additional comments.

The results of the questionnaires are summarized in Section 2 of this report and Appendix C. Although 29 completed questionnaires were received, not all respondents answered all questions, therefore, the sum of all figures may not always be 29.

2. QUESTIONNAIRES

2.1 Responses to Questionnaire

A total of twelve questions were asked in the questionnaire. Questions 8 and 9 deal directly with the *Waste Disposal and Collection Report* and are summarized in Appendix C. The remaining questions are highlighted below:

Survey Question	Total Responses	% of Total Responses
Question 1: Do you think waste management is an important issue facing the City of Sault Ste. Marie:		
Yes	29	100
No	0	0
Don't Know	0	0
Question 2: How many people live in your household and how many bags of waste do you typically set out each week?		
Number of People in your Household		
1 Person	4	14
2 People	8	28
3 People	7	24
4 People	9	31
5 People	1	3
How many bags set out each week:		
1 Bag	6	21
2 Bags	5	17
3 Bags	14	48
4 Bags	4	14
More than 4 Bags	0	0

Survey Question		Total Responses	% of Total Responses
Question 3	Do you currently use your yellow and blue boxes on a regular basis? Yes No	29 0	100 0
Question 4	In your estimation, how many large bags of garbage have been reduced through your participation in the blue and yellow box program per week? ½ Bag 1 Bag 2 Bags 3 Bags	3 21 4 1	10 72 14 4
Question 5	The City is considering building a composting facility to convert organic waste into compost. If you could have organics (food scraps, yard waste) collected from your curbside each week, would you separate this material into a special container or bag? Yes No Don't Know	19 5 5	66 17 17
Question 6	Would your answer to Question 5 change if the bag limit were reduced from 6 to 2 bags and bag fees were implemented? Yes No	4 23	15 85
Question 10	Would you prefer to pay for waste management services through property taxes or through a fee based on the amount of garbage you generate (i.e. user fee) or a combination of the two (partial user fee?) Property Tax User Fee Partial User Fee Don't Know Other: <ul style="list-style-type: none"> None of the above - our current City taxes are high enough to cover waste management! This is a cash grab. None of the above. 	0 17 9 2 2	0 57 30 7 7

Survey Question		Total Responses	% of Total Responses
Question 11	<p>The following residential user fees have been discussed. Please rank the options from 1 to 3, with 1 being the most preferred and 3 being the least preferred.</p> <p>A. 2 bag limit with a fee of \$2.00/bag for every bag above the limit in 2003 and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006.</p> <p>B. 4 bag limit in 2003, 3 bag limit in 2004 and 2 bag limit in 2005, with a fee of \$2.00/bag for every bag above the limit and an increase in landfill tipping fees to \$65/tonne by 2006</p> <p>C. Leave the gate fee at \$2.00/visit and the tipping fee at \$27.50/tonne and increase property taxes by some \$40 to \$50 for the average household (i.e. assessed value of \$96,000) in 2003.</p> <p>D. Other Reduce bags/household to 4 a week. No extra taxes or costs! There is no relationship in revenue between A and C. A is just a tax grab. 2 bag limit \$1.00/bag, gate fee of \$4.00, tipping fees of \$65.00 or use "A" with extra bags at Christmas and one other time, spring or early summer. Prefer 3 bag limit. 4 bag limit in 2003, 3 bag limit in 2004 and 2 bag limit in 2005, with a fee of \$1.00 for every bag above the limit and an increase in landfill gate fee to \$3.00 in 2003 and an increase in landfill tipping fees to \$48 to \$50/tonne by 2006.</p>	15	54
		8	29
		1	4
		4	14
Question 12	Do you think that Businesses should pay the full cost of disposing their garbage?		
	Yes	22	76
	No	6	21
	Don't Know	1	4

2.2 Additional Comments on Questionnaires

A number of respondents took advantage of the opportunity to provide additional comments on the questionnaire. The respondents understanding of the issues and the extent of comments were encouraging. There was a lot of interest expressed on the co-composting study and a number of different opinions on the partial user fee systems proposed.

All of the comments provided by the respondents on the questionnaire are included below:

1. I truly hope your test program (i.e. pilot compost) will continue and be expanded throughout the City. I would use the compostable bags at home for items which do not attract vermin and set for collection those that do (grease, meat, etc.). Really hope Sault Ste. Marie does the right thing here. Let's get on the map for the right reason!

(Question 10) User Pay - those who are irresponsible about recycling can pay for future impact on environment.
2. Incineration technology is presumably improving and may become a more viable option in the future, perhaps before this 25 year plan is complete.
3. This questionnaire was not designed for dissent from proposals. I do not agree with them. This City has a **rat** problem. People who cannot afford to pay will pile up garbage or dump it elsewhere. More **rats!** I do not agree that dumping will be stopped by by-laws because existing by-laws in many areas are not enforced!
4. The "free" ride is over. It's time we pay for these services as the rest of the Province. Organic diversion should be for winter only as people should be using their gardens. (Question 10) User fee is necessary so that people are constantly reminded of reducing waste.
5. (Question #8) I feel I need more information about mining and concerns about it. I do feel a community needs to deal with its waste so export is a low option. I have concerns about the landfill on the existing site (aquifer recharge area) and the existing leachate problem.

(Question #10) Education will be vital so people can learn the alternatives and work on changing public mindset. Research into what has worked in other communities (Halifax). Money to make it happen. (Question #12) Should be subsidized to the same extent of residents. Perhaps this will set the precedence for more environmentally friendly business practices. Opportunity to be involved in waste diversion must be provided.
6. A four bag maximum is sufficient. To reduce much more will cause people to dump excess. This City has a terrible history of enforcing its own by-laws so why are we to believe that it will enforce a no dumping one.
7. Bring back compost program.

8. Bring back the compost bags and pails. It took time to train my husband but he finally was getting into the swing of it. Please bring it back!
9. My biggest issue is that I should be able to selectively use my tags (i.e.: if allowed 2 bags per week, then give me 104 tags for use at my discretion. I might go on vacation, or I might just choose to only put my garbage out every two weeks, but I should not be penalized even though I'm within the "total" bag limit.
10. I appreciated the food composting program. Finally got my husband trained and you cancelled the program. (Question #9) Instead of rating 1 to 11, may have been easier to check off three most important. (Question #11) Family size should enter into this.
11. As a society we must continue to manage our waste through public and private payment. We've certainly progressed greatly in the last few years. Hope we continue.
12. Concerned with the fees, the garbage will be thrown all over the place, maybe my yard.
13. People dumping garbage in our rural areas is of great concern. It happens now. It will only get worse! Will holiday times still hold the same amount of garbage allowed (Christmas, etc.)
14. I do think that the landfill mining initiative should be revisited for a true cost per tonne.
15. I would like to see (and I do not know how you would do it) some arrangement for blue/yellow boxes for apartments. Also, it is, to me, silly to make people walking their dogs, use a "pooper-scooper", to pick up their (the dogs) messes. We put the mess in a plastic bag that will last on a landfill for years and years. Surely we can come up with a disposable bag for such use. I was pleasantly surprised at the courtesy shown to me, by the people in attendance. They are to be commended.
16. An allowance has to be made for legitimate two family units. Should be double single family unit. Tags should be easily accessed and only used for extra bags. (Question #10) To go user fee would have to know what my current costs are and would those taxes be reduced if total cost was user fee.
17. Families should not be penalized because they have a large number of children; one can assume they will generate more garbage. Blue/yellow box recycling should be extended to all businesses. The hazardous waste depot should be available to business also. It is likely those wastes also end up at the landfill. (Question #10) Perhaps credits can be used for families who cut their garbage bag quantities below minimum requirements; i.e.: credits to encourage recycling. (Question #12) Only if they are given the same opportunity to recycle paper as households; plus other recyclable items.

3. ADDITIONAL PUBLIC INPUT

Following the Open Houses, several letters and proposals were received during the public consultation period. This input is summarized in this section.

One individual took the time to undertake an informal survey of the waste and recyclables being set out along a street in his neighbourhood. That individual also initiated a petition which garnered 131 signatures. The petition generally supported the PAYT principle but suggested that the reduction in bag limits be phased in over a period of three years, with a bag fee of \$1.00/bag or container rather than \$2.00. Copies of the petition along with the response prepared are included in Appendix D.

Another individual suggested that a system be set up which would establish a number of free garbage bags per person per year. This would be accomplished by determining the number of people that reside at each household in the City and setting the number of free bags at each municipal address per year. The waste collection staff would then record electronically the number of bags of garbage set out at each municipal address. This system would provide a yearly allotment of bags per municipal address. The detailed proposal entitled "Individual Garbage Taxation Based on Accurate Information" can be found in Appendix D.

Four additional letters were received and the comments from these letters are summarized below:

- against the idea of only picking up two bags of garbage only;
- penalizing larger families;
- discriminating against tax paying homeowners when compared to apartment dwellers;
- public places will be littered (two letters);
- one or two bags too drastic a reduction, four bags is reasonable; and
- refuse will be dumped in unwanted places.

Responses not related to the implementation of user fees included the following:

- for a number of years people from outside the City have been using our dump to dispose of their garbage. The dump is for Sault Ste. Marie refuse, supported by our tax dollars and in no way should be used by others; and
- consideration should be given to pelletizing the garbage and using it as a fuel.

APPENDIX A

NEWSPAPER ADVERTISEMENT

City of Sault Ste. Marie

Long Term Solid Waste Management Plan

Public Comment Invited

The City of Sault Ste. Marie landfill site is estimated to have sufficient capacity to meet the needs of the community for the next 10 years. In order to ensure adequate provisions are in place for the management of the future solid waste stream, a study has been commissioned to provide the City with direction on all aspects of its solid waste management system for the next 25 to 40 years.

A four-phased study is being undertaken with the goal to develop a practical, economically feasible, environmentally acceptable and technically competent long term waste management system for the City of Sault Ste. Marie. The principle problems addressed through the study process include the historical low level of diversion, the limited remaining disposal capacity in the existing landfill and generating adequate revenues to fund the projected waste management system costs.

The City of Sault Ste. Marie would like to solicit input from the public on the proposed preferred waste management system and alternative user pay options.

Two informal Public Open Houses will be held to review the preliminary study materials, and to receive input and comment from interested parties.

Date: Tuesday March 18, 2003
Time: 3:30 pm to 7:30 pm
Location: John Rhodes Community Centre
280 Elizabeth Street

Date: Wednesday March 19, 2003
Time: 4:30 pm to 8:30 pm
Location: Korah Collegiate Auditorium
636 Goulais Avenue

The project consultants and city staff will be available to discuss the alternatives considered and to obtain feedback from the public. The study materials will include the preferred waste diversion system, preliminary results relating to the pilot co-composting study, options for the disposal of residual waste once the existing landfill reaches capacity, the projected waste management costs and alternative methods available to recover those costs (property taxes or user fees) and the Environmental Assessment Act Terms of Reference.

Further details may be obtained by contacting the consultant's office:

TSH (Totten Sims Hubicki Associates)
523 Wellington Street East
Sault Ste. Marie ON P6A 2M4

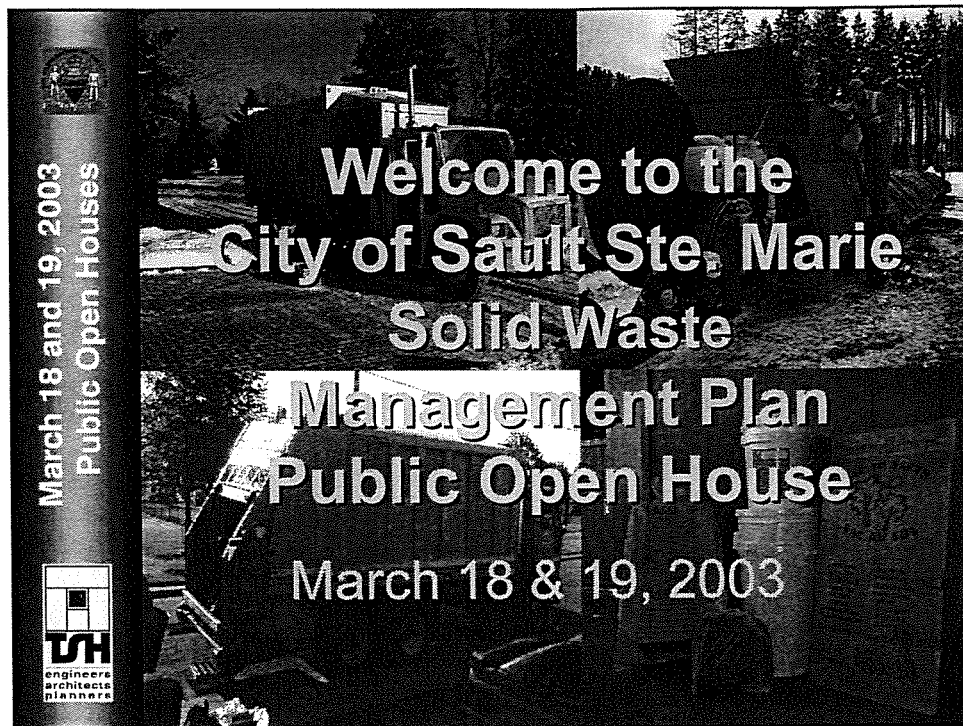
Attention: Rick Talvitie, P.Eng.
Branch Manager


Telephone: 705-942-2612
Email: rtalvitie@tsh.ca

Following the meeting further comments are invited, for incorporation into the planning of this project, and will be received at the address noted above until April 4, 2003.


Don Elliott, P.Eng.
Environmental/Construction Engineer
City of Sault Ste. Marie

APPENDIX B
DISPLAY BOARDS





March 18 and 19, 2003
Public Open Houses



What am I Supposed to Do ?

- Sign the Attendance Register;
- Pick up an Information Package;
- View the Displays;
- Ask Questions; and
- Complete a Questionnaire / Comment Sheet.

Representatives from the City of Sault Ste Marie and the Engineering Consultant (TSH) are present to answer your questions.

March 18 and 19, 2003
Public Open Houses



Study Approach

1. Review Historical Waste Management Records.
2. Identify Problems / Opportunities.
3. Identify and Evaluate Alternative Diversion / Collection Systems.
4. Identify and Evaluate Alternative Waste Disposal Systems.
5. Develop a Preferred Waste Management System Including a Business and Implementation Plan.
6. Prepare the Environmental Assessment Terms of Reference.



March 18 and 19, 2003
Public Open Houses



Problem Definition

- Existing landfill will reach capacity in approximately 10 years time.
- Historically the diversion level in the City has been very low (ie: 7% – 8%)
- Future waste management costs will increase substantially in order to provide additional disposal capacity and to fund diversion programs
- Additional revenues are required to fund the increased costs

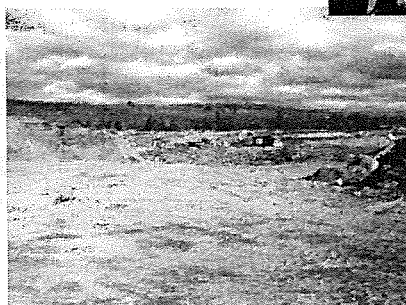
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Public Open Houses



Preferred Waste Management System

Waste Collection and Disposal

Weekly collection
of refuse



The refuse is trucked
to the landfill on Fifth
Line and disposed of.

March 18 and 19, 2003
Public Open Houses



Preferred Waste Management System

Enhanced Public Education

- The City hired a Waste Diversion Supervisor in 2000 and Randy Roy recently assumed this role in the fall of 2002 – Randy's responsibilities include public education and working to improve waste diversion
- The recently awarded recycling contract also includes requirements for public education and promotion of diversion activities – The Recycling Contractor is working with Randy on several initiatives

March 18 and 19, 2003
Public Open Houses



Preferred Waste Management System Household Special Waste and Re-use Centre



The City established a HSW depot in the fall of 2001 which provides for the diversion of oils, paints, car batteries, anti-freeze, pesticides, etc.

A re-use centre allows for the exchange of items between individuals with the goal of avoiding disposal in the landfill – possible implementation in 2004.



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Public Open Houses



Preferred Waste Management System Curb side collection of expanded recyclables and enhanced leaf and yard waste



New recycling contract (blue/yellow boxes) launched in October 2003

Projected 70% - 80% increase in tonnage in 1st year

City is considering enhancing the current leaf and yard waste program to include collection throughout the growing season (May through November)



March 18 and 19, 2003
Public Open Houses



Preferred Waste Management System

Pilot Study in Progress - Can we Compost Effectively?

Key Issues to be addressed:

- willingness of residents to participate;
- quantities diverted from landfill;
- effectiveness of various technologies in processing materials; and
- projected costs.

Materials issued to
pilot study residents in
the Churchill Plaza
area



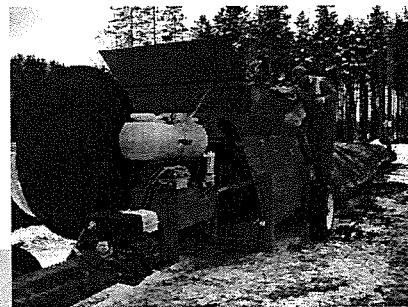
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Public Open Houses



Preferred Waste Management System

Pilot Study in Progress - Can we Compost Effectively?

Aerated static
pile technology



Rotating drum



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Public Open Houses



Preferred Waste Management System

Pilot Study in Progress - Can we Compost Effectively?

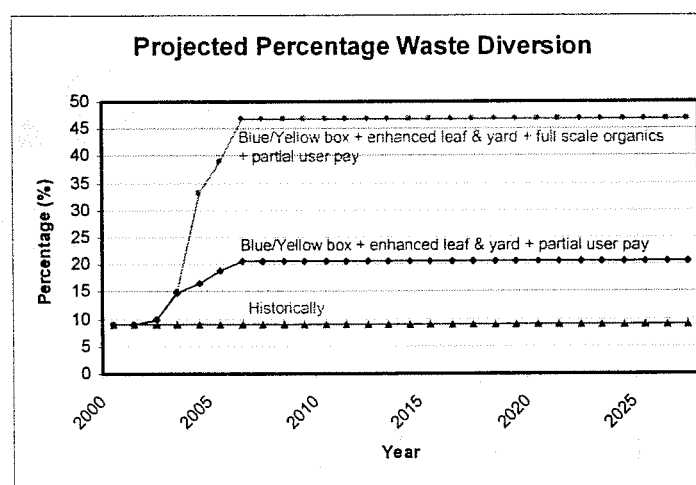
- 589 households asked to participate
- 460 households issued a pilot study kit
- 220 households participated on a weekly basis and 96% of these participants would support City-wide implementation
- Estimated quantity of residential organics (kitchen & leaf/yard waste) City-wide = 15,000 tonnes/year
- Pilot study in combination with blue/yellow box program resulted in a reduction in the setout rate from 2.5 bags/hh/wk to 1.15 bags/hh/wk (ie: 54% reduction)
- Quality of compost and City-wide implementation costs are presently being assessed



March 18 and 19, 2003
Public Open Houses



What Do We Hope to Achieve?



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Public Open Houses



Waste Disposal Options

- The following options are being considered for waste disposal once the landfill reaches capacity:
 - Incineration
 - New greenfield landfill within City limits
 - New greenfield landfill outside City limits
 - Export of waste to another site in Ontario
 - Export of waste to United States
 - Expansion of existing landfill
 - Landfill mining (reclamation of existing site)

March 18 and 19, 2003
Public Open Houses



Evaluation of Waste Disposal Options

OVERALL RATING OF WASTE MANAGEMENT OPTIONS					
Option	Natural Environment	Social/Cultural	Technical	Financial	Overall
Incineration	●	●	●	●	●
Greenfield Site in City Limits	●	●	●	●	●
Greenfield Site Outside City Limits	●	●	●	●	●
Export in Ontario	●	●	●	●	●
Export to United States	●	●	●	●	●
Expansion of Existing Landfill	●	●	●	●	●
Landfill Mining	●	●	●	●	●

RANKINGS

- Most Favorable
- In between
- Least Favorable



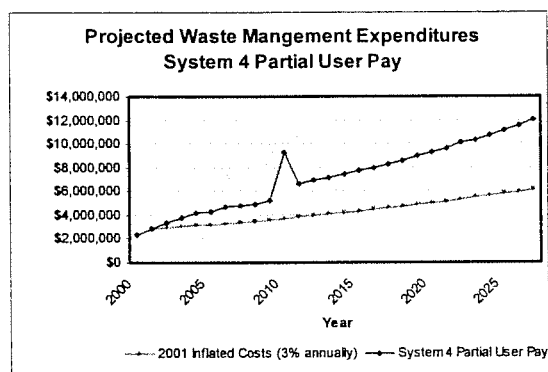
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Public Open Houses



Waste Disposal Recommendations

City submit an Environmental Assessment Terms of Reference to the Ministry of Environment recommending that landfill mining and expansion of the existing site be the alternatives assessed in detail to provide future landfill capacity for the City

Projected Waste Management Costs



25 Year Totals

\$195.9M

\$110.4M

- Future expenditures will increase substantially relative to past expenditures.
- Increases are largely attributable to the need to establish new disposal capacity and increased diversion costs



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Public Open Houses





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How do we pay for the Increased Costs

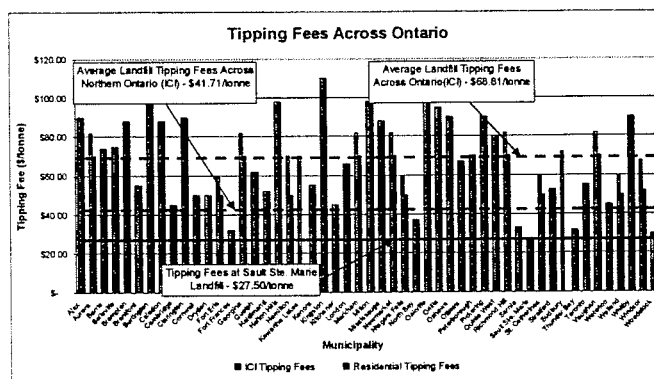
- Revenue Sources:
 - General Tax Levy
 - User Fees (tipping fees, gate fees, pay-as-you-throw)
- The existing waste management system is funded through general tax revenues (\$2.0M in 2001) in combination with user fees (ie: tipping fees and gate fees = \$1.1M in 2001) = partial user pay system
- How do the user fees charged in Sault Ste. Marie compare to the rest of the Province?



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Public Open Houses



Revenues – Tipping Fees



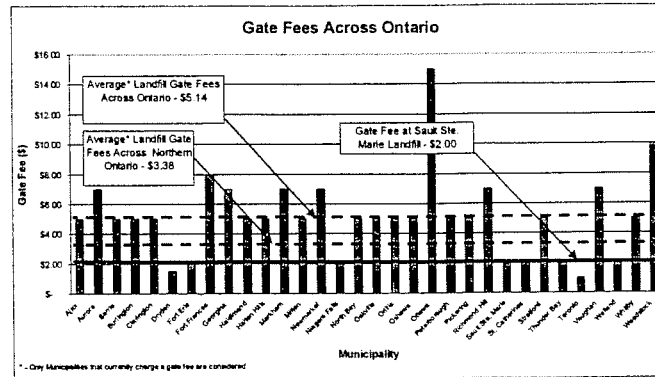
Conclusion: Tipping fees should be increased to levels consistent with the true costs of disposal and the fees being charged elsewhere in the province.



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Public Open Houses



Revenues – Gate Fees



Conclusion: Gate fees should be increased to levels consistent with fees being charged elsewhere in the province and should be integrated with the proposed tipping fee increases



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Revenues – Pay-As-You-Throw (PAYT)

- **What is a PAYT program?** - Each bag of waste setout curbside in excess of the designated bag limit must be paid for in advance (ie: purchase a bag tag and place it on the bag)
- Structured to encourage residents to divert and reduce waste – residents inclined to minimize bag fees through waste reduction & participation in diversion programs
- Natural gas, electricity, municipal water and sewage are all paid for using a similar approach

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Public Open Houses



SAMPLE PAYT PROGRAMS IN ONTARIO			
Municipality	Bag Limit	Tag Cost	Notes
Barrie	2	\$1.00	Charge for extra bags in excess of limit.
Belleville	0	\$1.00	Every item requires a bag tag. Pay for each tag.
Brampton	3	\$1.00	Charge for extra bags in excess of limit.
Caledon	3	\$1.00	Charge for extra bags in excess of limit.
Clarington	3	\$1.00	Tag system being implemented next year.
Dryden	0	\$1.50	Pay for each tag.
Fort Erie	3	\$1.00	Charge for extra bags in excess of limit.
Georgina	0	\$1.00	Pay for each tag.
Kawartha Lakes	2	\$2.00	Charge for extra bags in excess of limit.
Kenora	0	\$2.00	Pay for each tag.
Kingston	3	\$2.00	Charge for extra bags in excess of limit.
Markham	3	-	Pick up more tags for no charge – 12 at a time.
Mississauga	3	\$1.00	Charge for extra bags in excess of limit.
Niagara Falls	3	\$1.00	Charge for extra bags in excess of limit.
Orillia	0.75	\$1.50	40 free tags issued to each residence free of charge. Charge for extra tags.
Oshawa	4	\$1.00	Charge for extra bags in excess of limit.
Quinte West	0	\$2.00	Pay for each tag.
St. Catharines	3	\$1.00	Charge for extra bags in excess of limit.
St. Thomas	2	\$1.50	Privately run by Green Lane Environmental.
Stratford	0	\$1.20	Various rate tag system – depends on size of item.
Welland	3	\$1.00	Charge for extra bags in excess of limit.

Proposed Revenue Structure

- Maintain property tax contribution to waste management near present levels (ie: approx. \$2M annually)
- Reduce bag limits from 6 to 2 bags/hh/week
- Implement a bag fee of \$2/bag for each bag setout in excess of the 2 bag limit
- Increase tipping fees to \$65/tonne by 2006
- Increase the gate fee to \$4/visit

March 18 and 19, 2003
Public Open Houses

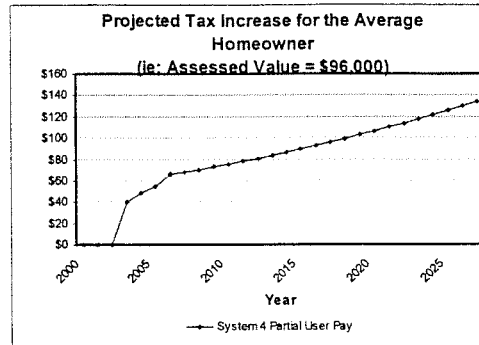




March 18 and 19, 2003
Public Open Houses



Alternative Revenue Structure Tax Increases



- In lieu of enhancing user fees property taxes would have to increase.
- Initial increase is estimated to be in the range of \$40-\$50 for the average homeowner
- Over the 25 year planning period the initial increase may triple.



March 18 and 19, 2003
Public Open Houses



How do you want to pay for the Increased Costs?

- Please let us know your thoughts on the alternative cost recovery schemes by filling in a questionnaire
- Remember the COSTS will INCREASE and we have to pay for them through ENHANCED USER FEES or INCREASED TAXES.
- DOING NOTHING is NOT an OPTION!

March 18 and 19, 2003
Public Open Houses



Next Steps

April 2003

- Assess and summarize public input
- Provide final recommendations to Council together with a summary of the public input

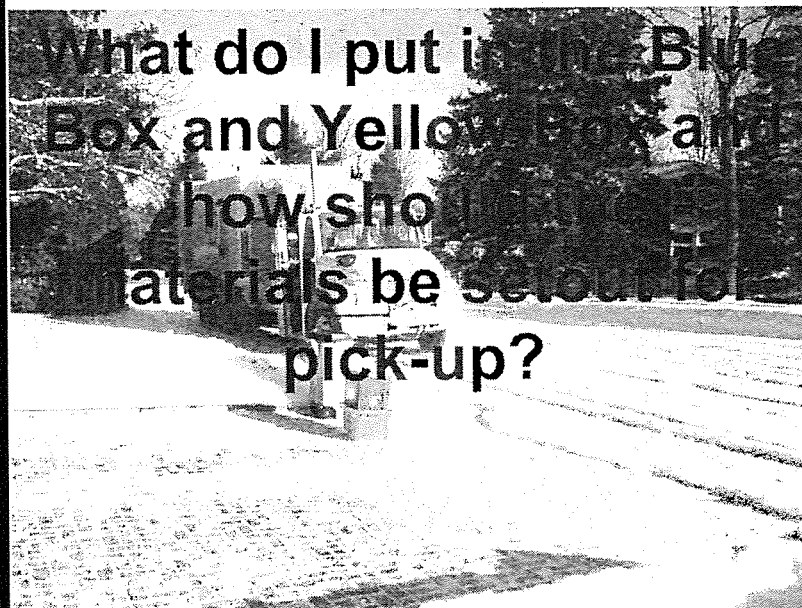
Spring 2003

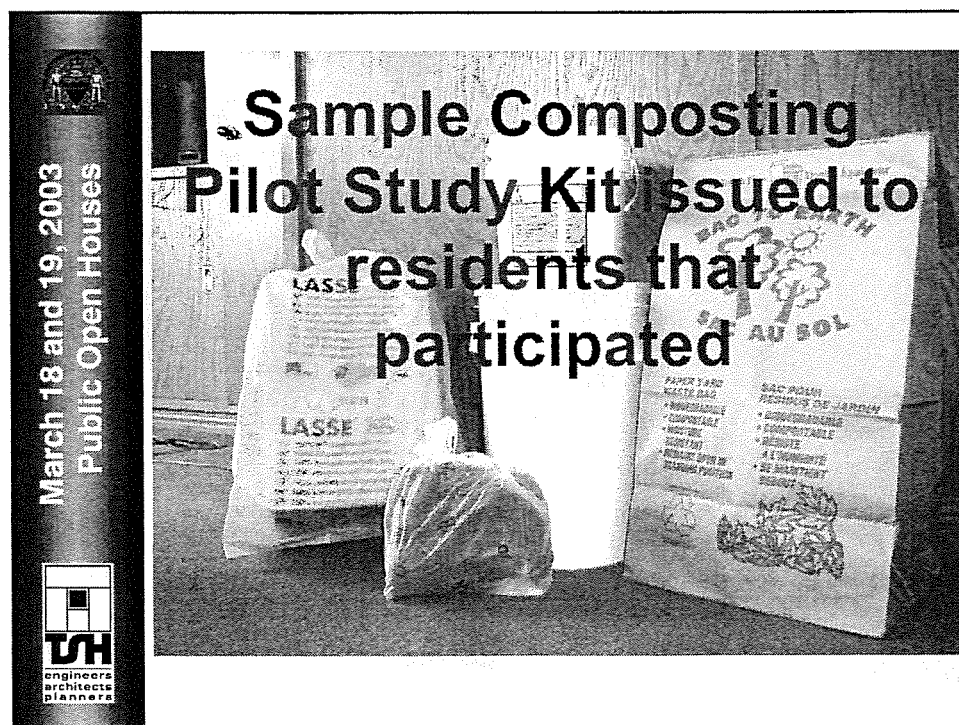
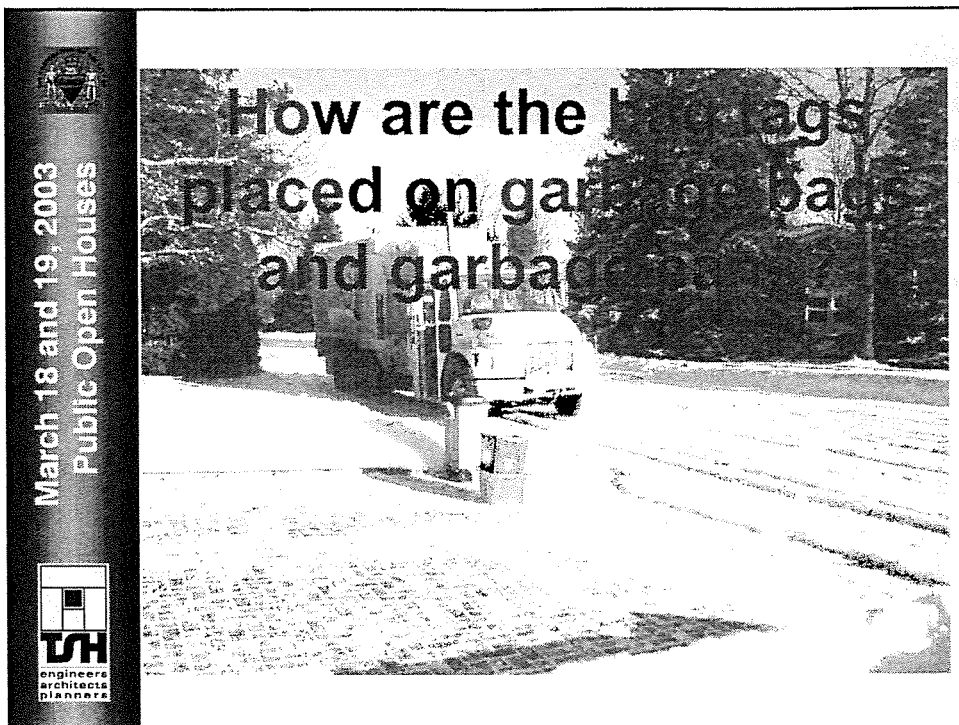
- Finalize Co-compost Feasibility study

Summer/Fall 2003

- Obtain Ministry of Environment Approval of the Terms of Reference to evaluate disposal alternatives
- Proceed with Environmental Assessment Work
- Implement enhanced user fees or increased taxes subject to Council approval

March 18 and 19, 2003
Public Open Houses





APPENDIX C
QUESTIONNAIRE

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

1
Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
1. Do you think that waste management is an important issue facing the City of Sault Ste. Marie?		
Yes	29	100
No	0	0
Don't Know	0	0
2. How many people live in your household and how many bags of waste do you typically set out each week?		
Number of people in your household:		
1 person	4	14
2 people	8	28
3 people	7	24
4 people	9	31
5 people	1	3
How many bags set out each week:		
Less than 1 bag	6	21
1 bag	5	17
2 bags	14	48
3 bags	4	14
4 bags	0	0
5 bags	0	0
6 bags	0	0
? Bags	0	0
3. Do you currently use your blue and yellow boxes on a regular basis?		
Yes	29	100
No	0	0

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

2
Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
4. In your estimation, how many large bags of garbage have been reduced through your participation in the blue and yellow box program per week?		
1/2 bag	3	10
1 bag	21	72
2 bags	4	14
3 bags	1	3
5. The City is considering building a composting facility to convert organic waste into compost. If you could have organic waste (food scraps, yard waste) collected from your curbside each week, would you separate this material into a special container or bag?		
Yes	19	66
No	5	17
Don't Know	5	17
6. Would your answer to 5 change if the bag limit were reduced from 6 to 2 bags and bag fees were implemented?		
Yes	4	15
No	23	85
7. How would you prefer to manage your organic waste (food scraps, yard waste)?		
Ranked 1st		
Option A: Backyard composter at my home	8	29
Option B: Take it to a composting site in the City	0	0
Option C: Put it in a special container to be picked up at curbside each week	16	57
Option D: Put in with regular garbage to be landfilled	4	14
Ranked 2nd		
Option A: Backyard composter at my home	9	35
Option B: Take it to a composting site in the City	6	23
Option C: Put it in a special container to be picked up at curbside each week	8	31

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Option D: Put in with regular garbage to be landfilled	3	12
Ranked 3rd		
Option A: Backyard composter at my home	3	12
Option B: Take it to a composting site in the City	16	62
Option C: Put it in a special container to be picked up at curbside each week	3	12
Option D: Put in with regular garbage to be landfilled	4	15
Ranked 4th		
Option A: Backyard composter at my home	8	31
Option B: Take it to a composting site in the City	3	12
Option C: Put it in a special container to be picked up at curbside each week	0	0
Option D: Put in with regular garbage to be landfilled	15	58
8. The City landfill is expected to reach capacity in 10 years. How do you think the City should manage its garbage once the existing site is full?		
Ranked 1st		
Option A: Incineration (burning)	6	23
Option B: New landfill in City Limits	1	4
Option C: New landfill outside city limits	2	8
Option D: Export of waste elsewhere in Ontario	0	0
Option E: Export of waste to United States	1	4
Option F: Expansion of existing landfill	6	23
Option G: Landfill mining (rework existing landfill site)	10	38
Ranked 2nd		
Option A: Incineration (burning)	1	4
Option B: New landfill in City Limits	3	11
Option C: New landfill outside city limits	3	11
Option D: Export of waste elsewhere in Ontario	0	0
Option E: Export of waste to United States	0	0
Option F: Expansion of existing landfill	13	46
Option G: Landfill mining (rework existing landfill site)	8	29

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

4
Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Ranked 3rd		
Option A: Incineration (burning)	4	15
Option B: New landfill in City Limits	4	15
Option C: New landfill outside city limits	8	30
Option D: Export of waste elsewhere in Ontario	0	0
Option E: Export of waste to United States	2	7
Option F: Expansion of existing landfill	3	11
Option G: Landfill mining (rework existing landfill site)	6	22
Ranked 4th		
Option A: Incineration (burning)	2	8
Option B: New landfill in City Limits	10	38
Option C: New landfill outside city limits	9	35
Option D: Export of waste elsewhere in Ontario	1	4
Option E: Export of waste to United States	0	0
Option F: Expansion of existing landfill	3	12
Option G: Landfill mining (rework existing landfill site)	1	4
Ranked 5th		
Option A: Incineration (burning)	6	25
Option B: New landfill in City Limits	3	13
Option C: New landfill outside city limits	3	13
Option D: Export of waste elsewhere in Ontario	8	33
Option E: Export of waste to United States	1	4
Option F: Expansion of existing landfill	1	4
Option G: Landfill mining (rework existing landfill site)	2	8
Ranked 6th		
Option A: Incineration (burning)	1	4
Option B: New landfill in City Limits	1	4
Option C: New landfill outside city limits	1	4
Option D: Export of waste elsewhere in Ontario	13	54
Option E: Export of waste to United States	8	33

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

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Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Option F: Expansion of existing landfill	0	0
Option G: Landfill mining (rework existing landfill site)	0	0
Ranked 7th		
Option A: Incineration (burning)	7	29
Option B: New landfill in City Limits	2	8
Option C: New landfill outside city limits	0	0
Option D: Export of waste elsewhere in Ontario	2	8
Option E: Export of waste to United States	13	54
Option F: Expansion of existing landfill	0	0
Option G: Landfill mining (rework existing landfill site)	0	0
9. The City has initiated an Environmental Assessment Study which is considering expansion of the existing landfill and landfill mining as the alternative methods to provide long-term disposal capacity for the City. In order to evaluate the options, a number of environmental criteria have been developed.		
Ranked 1st		
Archaeology	0	0
Biology/Forestry	0	0
Design and Operations	0	0
Economics	3	12
Geology/Hydrogeology (groundwater)	14	56
Heritage	0	0
Mining	1	4
Planned Land Use	1	4
Social	0	0
Surface Water	6	24
Transportation	0	0
Ranked 2nd		
Archaeology	0	0
Biology/Forestry	2	8
Design and Operations	0	0

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

6
Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Economics	0	0
Geology/Hydrogeology (groundwater)	4	17
Heritage	0	0
Mining	1	4
Planned Land Use	3	13
Social	2	8
Surface Water	10	42
Transportation	2	8
Ranked 3rd		
Archaeology	0	0
Biology/Forestry	7	29
Design and Operations	2	8
Economics	2	8
Geology/Hydrogeology (groundwater)	0	0
Heritage	1	4
Mining	4	17
Planned Land Use	1	4
Social	4	17
Surface Water	3	13
Transportation		
Ranked 4th		
Archaeology	2	9
Biology/Forestry	1	4
Design and Operations	3	13
Economics	5	22
Geology/Hydrogeology (groundwater)	5	22
Heritage	1	4
Mining	0	0
Planned Land Use	1	4
Social	2	9

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

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Questionnaire Results		
	SURVEY QUESTIONS	
Surface Water		
Transportation		
Ranked 5th		
Archaeology		
Biology/Forestry		
Design and Operations		
Economics		
Geology/Hydrogeology (groundwater)		
Heritage		
Mining		
Planned Land Use		
Social		
Surface Water		
Transportation		
Ranked 6th		
Archaeology		
Biology/Forestry		
Design and Operations		
Economics		
Geology/Hydrogeology (groundwater)		
Heritage		
Mining		
Planned Land Use		
Social		
Surface Water		
Transportation		
Ranked 7th		
Archaeology		
Biology/Forestry		
Design and Operations		

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

8
Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Economics	1	4
Geology/Hydrogeology (groundwater)	0	0
Heritage	2	9
Mining	2	9
Planned Land Use	5	22
Social	5	22
Surface Water	0	0
Transportation	1	4
Ranked 8th		
Archaeology	2	9
Biology/Forestry	0	0
Design and Operations	2	9
Economics	1	5
Geology/Hydrogeology (groundwater)	1	5
Heritage	2	9
Mining	3	14
Planned Land Use	7	32
Social	2	9
Surface Water	0	0
Transportation	2	9
Ranked 9th		
Archaeology	1	5
Biology/Forestry	3	14
Design and Operations	0	0
Economics	1	5
Geology/Hydrogeology (groundwater)	0	0
Heritage	2	9
Mining	6	27
Planned Land Use	1	5
Social	5	23

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

9

Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Surface Water	0	0
Transportation	3	14
Ranked 10th		
Archaeology	3	13
Biology/Forestry	1	4
Design and Operations	5	22
Economics	0	0
Geology/Hydrogeology (groundwater)	0	0
Heritage	7	30
Mining	2	9
Planned Land Use	0	0
Social	1	4
Surface Water	0	0
Transportation	4	17
Ranked 11th		
Archaeology	9	41
Biology/Forestry	0	0
Design and Operations	1	5
Economics	0	0
Geology/Hydrogeology (groundwater)	2	9
Heritage	4	18
Mining	1	5
Planned Land Use	3	14
Social	0	0
Surface Water	1	5
Transportation		
10. Would you prefer to pay for waste management services through property taxes or through a fee based on the amount of garbage you generate (ie user fee) or a combination of the two (partial user fee?).		
Property Tax	0	0
User Fee	17	57

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

10
Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
Partial User Fee	9	30
Don't Know	2	7
Other:	2	7
None of the above - our current city taxes are high enough to cover waste management! This is a cash grab.		
None of the above.		
11. The following residential user fees have been discussed. Please rank the three options from 1 to 3 with 1 being the most preferred and 3 being the least preferred.		
Ranked 1st		
A. 2 bag limit with a fee of \$2.00/bag for every bag above the limit in 2003 and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006	15	54
B. 4 bag limit in 2003, 3 bag limit in 2004 and 2 bag limit in 2005, with a fee of \$2.00/bag for every bag above the limit and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006	8	29
C. Leave the gate fee at \$2.00/visit and the tipping fee at \$27.50/tonne and increase Property Taxes by some \$40-\$50 for the average household (ie: assessed value of \$96,000) in 2003	1	4
D. Other:	4	14
Reduce bags/household to 4 a week. No extra taxes or costs!		
There is no relationship in revenue between A & C. A is just a tax grab.		
2 bag limit \$1.00/bag gate fee of \$4.00, tipping fees \$65.00 or use "A" with extra bags at Christmas and one other time, spring or early summer. Prefer 3 bag limit.		
4 bag limit in 2003, 3 bag limit in 2004 and 2 bag limit in 2005, with a fee of \$1.00 for every bag above the limit and an increase in landfill gate fee to \$3.00 in 2003 and an increase in landfill tipping fee to \$48-\$50/tonne by 2006.		
Ranked 2nd		
A. 2 bag limit with a fee of \$2.00/bag for every bag above the limit in 2003 and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006	8	32
B. 4 bag limit in 2003, 3 bag limit in 2004 and 2 bag limit in 2005, with a fee of \$2.00/bag for every bag above the limit and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006	17	68
C. Leave the gate fee at \$2.00/visit and the tipping fee at \$27.50/tonne and increase Property Taxes by some \$40-\$50 for the average household (ie: assessed value of \$96,000) in 2003	0	0

City of Sault Ste. Marie
Solid Waste Management Plan
Public Open Houses - March 18 and 19, 2003

11

Last Updated: April 29, 2003

Questionnaire Results		
SURVEY QUESTIONS	TOTAL RESPONSES	% OF TOTAL RESPONSES
D. Other:	0	0
Ranked 3rd		
A. 2 bag limit with a fee of \$2.00/bag for every bag above the limit in 2003 and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006	2	8
B. 4 bag limit in 2003, 3 bag limit in 2004 and 2 bag limit in 2005, with a fee of \$2.00/bag for every bag above the limit and an increase in landfill gate fee to \$4.00/visit in 2003 and an increase in landfill tipping fees to \$65/tonne by 2006	0	0
C. Leave the gate fee at \$2.00/visit and the tipping fee at \$27.50/tonne and increase Property Taxes by some \$40-\$50 for the average household (ie: assessed value of \$96,000) in 2003	23	92
D. Other:	0	0
12. Do you think that businesses should pay the full cost of disposing their garbage?		
Yes	22	76
No	6	21
Don't Know	1	3

APPENDIX D
ADDITIONAL INPUT

File 60219
Public Input

April 2, 2003

Dear Consultants

Mr. Michael Cant and Mr. Rick Talvitie
of the engineering and planning firm
Totten Sims Hubicki Associates

APR 07 2003

RECEIVED

Re: Council recommends two-bag limit on trash

I first of all would like to commend both of you on your report done on waste management, I was unfortunately not able to attend City Council meeting or either of your two scheduled meetings as I work a 3 - 11 shift, but must thank your staff and you for giving me a copy of the report and the questionnaire survey. I have done your questionnaire, but I would like to address my opinions and concerns in this separate letter.

I am much opposed to the two-bag limit on trash, especially going from a six-bag limit to a two-bag limit all in one year's time. I would like to see the bag limit phased in over three years, with four bags allowed in 2003, three bags in 2004 and two bags in 2005 as was suggested by Ward 1 Councillor Mr. David Oraziotti and Ward 2 Councillor Mr. Brady Irwin. Although the two-bag limit doesn't affect me personally since I am a single householder I can manage to live with the two-bag limit. But I wish to express many peoples concerns and hardships that they will be facing going from a six-bag limit to a two-bag limit all in one shot. I don't think this is fair to the public, it's like anything you do or learn whether lifting weights in a gym or running on a track, you can't achieve your goal all in one shot and this is what you are proposing to do in the garbage bag limit going from a six-bag limit to a two-bag limit all in one shot in one year to achieve your goal. You must be patient and give the people time to adjust to the system slowly and give them a chance to make the change over. I know and do realize and agree with you that many of the people are not using their blue box and yellow box and that would certainly cut down on the number of garbage bags used, but by the same token many people are using their blue box and yellow box and still have four bags of garbage at the curb each week. Phasing in the garbage bag limit may also help to alleviate some of the illegal dumping in the city and also the use of backyard garbage burning, to using one of the retailers red bins or their garbage compacters at night time and through the early morning hours.

You are also proposing any more than a two-bag limit will cost you \$2 for a bag tag, why not \$1, where many of these same people are just getting \$1 each week especially large families and seniors, now an additional \$2 bag tag or more depending on the number of bags you need each week. I know I have heard many people say, that's not much to spend, but it adds up when you look at it for a whole year. You have said that the average garbage bag per household is 2.67 bags, which should be rounded off to 3 bags per household, but it's first time in history, I can remember we went down the way to a two-bag limit. Why?

Enclosed with this letter, you will find a petition which I have been going over the past three weeks from residents or householders, opposed going from a six-bag limit to a two-bag limit in one year, but willing to see the garbage bag limit phased in over 3 years.

I know and realize your concerns that the reduced bag limit is part of a comprehensive plan aimed at squeezing more years of additional life out of the City's landfill but also on the other hand take in consideration and concerns of the residents of the deep cut from a six-bag limit to a two-bag limit all in one year.

Another of my concerns is increasing the landfill gate fee to \$4 this year (double the current \$2) and to \$6 in 2006. I believe you are not only trying to extend the life of the landfill but at the same time trying to raise revenue but why double from \$2 to \$4 this year where most Northern Ontario cities are charging \$3, but you are comparing Sault Ste. Marie to other Cities in the Province and not Northern Ontario Cities in our vicinity. I have heard a rumor, that it was doubled because the machine doesn't take loonies but only takes toonies, how can that be, because loonies came out before toonies and other vending machines like the newspaper can make the adjustment in the machines with different prices from week days to week-end, why can't we do that at the landfill site.

We are going from being the lowest tipping fee of \$27.50 in the province to being eighth or ninth highest tipping fee of \$65 in the province, and once again you are comparing Sault Ste. Marie to other Cities in the Province rather than comparing Sault Ste. Marie to other Northern Ontario Cities where the tipping fees are \$45.

ick, I did a survey on Monday March 24th at midnight on Wellington St. East from East Street to Gore Street, from residents or householders who had their garbage bags out overnight. Here are the results.

- 1 Bag of Garbage - 15 Residents
- 1 Bag of Garbage + Blue Box - 0 Residents
- 1 Bag of Garbage + Yellow Box - 2 Residents
- 1 Bag of Garbage + Blue Box + Yellow Box - 0 Residents
- 2 Bags of Garbage - 9 Residents
- 2 Bags of Garbage + Blue Box - 1 Resident
- 2 Bags of Garbage + Yellow Box - 3 Residents
- 2 Bags of Garbage + Blue Box + Yellow Box - 9 Residents
- 3 Bags of Garbage - 6 Residents
- 3 Bags of Garbage + Blue Box - 0 Residents
- 3 Bags of Garbage + Yellow Box - 6 Residents
- 3 Bags of Garbage + Blue Box + Yellow Box - 0 Residents
- 4 Bags of Garbage - 1 Resident
- 4 Bags of Garbage + Blue Box - 0 Residents
- 4 Bags of Garbage + Yellow Box - 4 Residents
- 4 Bags of Garbage + Blue Box + Yellow Box - 6 Residents
- 5 Bags of Garbage - 1 Resident
- 5 Bags of Garbage + Blue Box - 0 Residents
- 5 Bags of Garbage + Yellow Box - 0 Residents
- 5 Bags of Garbage + Blue Box + Yellow Box - 0 Residents
- 6 Bags of Garbage - 6 Residents
- 6 Bags of Garbage + Blue Box - 0 Residents
- 6 Bags of Garbage + Yellow Box - 0 Residents
- 6 Bags of Garbage + Blue Box + Yellow Box - 0 Residents
- 7 Bags of Garbage - 1 Resident
- 7 Bags of Garbage + Blue Box - 0 Residents
- 7 Bags of Garbage + Yellow Box - 0 Residents
- 7 Bags of Garbage + Blue Box + Yellow Box - 3 Residents

Bags of Garbage + Blue Box + 2 Yellow Boxes - 1 Resident

2 Bags of Garbage - 2 Residents

Bags of Garbage + Blue Box - 0 Residents

8 Bags of Garbage + Yellow Box - 0 Residents

Bags of Garbage + Blue Box + Yellow Box - 1 Resident

Bags of Garbage - 1 Resident

9 Bags of Garbage + Blue Box - 0 Residents

Bags of Garbage + Yellow Box - 0 Residents

9 Bags of Garbage + Blue Box + Yellow Box - 0 Residents

I and some individuals have various questions, we would like to ask.

1. What happens when you have more than two bags of garbage in a large green container, does it go by bags or containers?

2. What happens to apartment buildings where they have the large green containers and how is the garbage bags justified in the apartment buildings?

3. Is the City going to supply the garbage tags free for the first year and when you purchase the \$2 tag are they to be sold separately, in a lot of 10 or as I have heard for one year (put out \$208 in one shot, I don't think so? Are the garbage tags going to be sold only at City Hall or also at convenience stores? It may be a hardship for some people who are working Monday to Friday, to get to City Hall or others at night where they realize they need a tag and can't purchase one.

4. What happens to householders right now, who do not have a blue box or yellow box? This has been brought to my attention where people have moved. The people moving out left their boxes behind at the house, but when these same people moved into their new house, they found that the original owners took their boxes with them. Will we be able to get extra blue boxes and yellow boxes, if needed and will there also be a charge for these extra boxes. Can we put out more than one blue or yellow box each week?

5. Is an allowance going to be made during fall, when we have bags of leaves in galore and during Christmas time, is there going to be a limit on the number of garbage bags allowed?

Here is what I believe.

I believe that people will understand the need to significantly reduce, and will embrace the idea, but will need time to get used to it and implement it fully in their daily routine. Any plan must be phased in over a fairly long period of time. The argument is not with the goal but rather the plan to reach the goal. I have also enclosed web pages from Pinellas County Department of Solid Waste Operations that you might like to look at.


Just for the record, the first two bags are NOT free. We already pay for it in our taxes. I wonder what the cost per bag is right now.

I strongly believe that a better job must be done to inform the public what is going on and what it is we are trying to achieve and there is many questions to be answered or unknown what the procedures are, example, can more than one or two yellow boxes be used, how will the tags be sold or given for a one-time basis. Very sad to see that this information was not on a web page under City Hall or City Council giving details to people who may wish information on this subject or to people unable to get out.

But I wish to thank you both once again for a fine presentation on waste management and thank you in advance for your time and consideration in these concerns. I felt it was more appropriate to put it in writing as well as filling out the questionnaire.

Yours sincerely

John Burns
John Burns



March 24, 2003

NOTICE OF PETITION

On Monday February 10, 2003, City Council endorsed a recommendation in favour of the resolution presented and prepared by consultant Rick Talvitie of the engineering and planning from Totten Sims Hubicki Associates for a two-bag weekly limit per household starting this year from the six-bag weekly limit now allowed.

Also at that Monday night City Council Meeting a motion from Ward 1 Councillor David Orazietti and Ward 2 Councillor Brady Irwin that would have phased in the bag limits, with four bags allowed in 2003, three bags in 2004 and two bags in 2005. The Orazietti/Irwin phase-in motion lost by a 7-6 vote and I feel very strongly that this motion should also of been tabled along with the six bags to two bags.

I the undersigned person on the next page believe it will take some time to get use to and is asking a lot from the residents of Sault Ste. Marie to go from six bags per week to two bags and I am asking and in favour for the resolution from David Orazietti and Brady Irwin to be once again presented to the consultants and City Council of a phased-in approach in bag limits, with four bags allowed in 2003, three bags in 2004 and two bags in 2005.

When this vote comes to City Council I ask it be a recorded Vote by City Council.

131 Signatures

Individual Garbage Taxation Based on Accurate Information

The Plan

- Establish a number of free bags of garbage per year per person (based on desired landfill utilization)
- Determine the number of people that reside at each municipal address
- Calculate the number of free bags of garbage per year per municipal address (MA). (for each address in the city)
- Have garbage people record, electronically, the number of bags of garbage each MA puts on roadside.
- Give MA owners an official garbage bag "recording sheet" so that they can mark down the number of bags they put at the curbside each week (to confirm discrepancies with the garbage person's record)
- Report to MA owner their projected garbage bag usage and likely additional tax increase OR REDUCTION on an initially frequent and eventual periodic basis.

Disincentives to Cheat

Establish and enforce large fines (\$5,000) for:

- putting your garbage at a neighbour's curbside without their consent,
- putting trash in any unauthorized area,
- submitting a falsified "recording sheet" for the purposes of reducing your garbage tax/incentive

Behaviour Modification

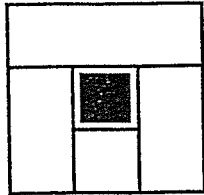
- Provides financial incentives to reduce waste at the curbside
- Provides financial disincentives to overuse landfill
- Provides financial disincentives to Cheat as outlined above

Costs

- Implementation of electronic recording devices on garbage trucks (mainly a one time capital cost)
- Administration of garbage information:
 - collection of information from garbage trucks
 - distribution of garbage usage reports to MA owners
 - updating of # of MA residents on a continuous basis

Benefits

- Annual garbage limits rather than weekly limits
- Limits based on number of people residing at a MA rather than an arbitrary MA limit
- Financial incentives to reduce landfill usage
- Ease of enforcement because of easy identification of likely cheaters
- No artificial tags, bags, etc... have to be provided by city hall
- MA owner can miss a week of garbage collection and not have to pay financially for it (annual limit)
- MA owner can go way over weekly limit on a particular week as long as they keep the annual limit in mind
- Can use existing MA data to establish number of people at each MA.



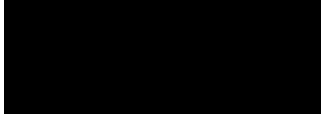
TSH
engineers
architects
planners

40 Years

Totten Sims Hubicki Associates
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Sault Ste. Marie, Ontario, Canada P6A 2M4
(705) 942-2612 Fax: (705) 942-3642
E-mail: ssmarie@tsh.ca www.tsh.ca

May 16, 2003

Mr. John Burns



Dear Mr. Burns:

**Re: City of Sault Ste. Marie
Solid Waste Management Plan
Proposed Pay-As-You-Throw Program
TSH Project No. 60219**

We would like to thank you for the time and considerable thought given to the proposed pay-as-you-throw ("PAYT") program that the Waste Management Steering Committee presented to Council in February, 2003. The purpose of this letter is to make some observations regarding your submission and hopefully address the questions that you raised.

Phased-in Approach

It is our understanding that you support the implementation of a PAYT program and a two bag limit but you favour a gradual implementation over a period of three years together with a bag fee of \$1 rather than \$2. In general we do not have any significant concerns with your proposal as it was something that was contemplated by the Waste Management Steering Committee. The Committee did however conclude that based on the relatively small percentage of homes setting out three or more bags/containers of waste each week there would be a very limited positive impact on the life of the landfill site if a phased-in approach was implemented (refer to the section below entitled "Waste Setout Rates"). It has also been identified in studies completed in other municipalities that have ongoing pay-as-you-throw programs that a \$2 bag fee is more successful in encouraging participation in the diversion programs over the longer term.

Based on the Residential Waste Composition Study conducted in 2000 only 13 % of households setout more than four bags and based on the recent City survey this number has been reduced significantly as a result of the recent introduction of the yellow box (ie: 7% in April, 2003). Further information on the impact of a two bag limit is presented in the section below.

Waste Setout Rates

As you indicated, we reported that the average number of bags that were setout curbside in 2000 when we completed a residential waste composition study was 2.67 bags per household per week. We also noted in our presentation to Council that this survey was completed before the introduction of the yellow box and without a pay-as-you-throw program. We anticipate that the recent implementation of

the yellow box program combined with the proposed pay-as-you-throw program will likely result in a reduction of the average setout rate from 2.67 bags per household per week to $2 \pm$. The anticipated reduction is attributable to the increased opportunity for diversion (ie: yellow box) and the more efficient disposal/compaction of waste that is common when a pay-as-you-throw program is initiated.

We would like to commend you on the survey of waste and blue/yellow box setout rates that you completed along Wellington Street. We believe that the information collected is important but felt that it would be even more meaningful on a larger scale and with a broader distribution of homes. Therefore the City's Public Works crews completed a similar survey of 4547 homes along various collection routes throughout the City in April 2003. Based on their survey, 2/3 of all homes setout 2 or fewer bags/containers of waste and the remaining 1/3 setout 3 or more. The survey also identified that 56% of homeowners participated in the blue/yellow box program. The Waste Management Steering Committee felt that the level of participation in the blue/yellow box program will likely increase significantly once a PAYT program is implemented. This could mean that the proportion of homeowners that would be impacted by a 2 bag limit will likely be substantially less than 1/3.

Gate Fee

Generally the average resident does not make a significant number of trips to the landfill site each year and we do not anticipate that the proposed gate fee increase to \$4 is overly onerous. More importantly however the gate fee must be integrated with the overall waste management revenue structure. The \$4 gate fee (which presently applies to the residential sector for loads under 500 kg) will still be well below the actual tipping fee. By 2006 when the gate fee increases to \$6 and the weight limit is reduced to 100 kg the gate fee and tipping fee will virtually be fully integrated. It is also important to note that if the gate fee is too low there may be a significant increase in the level of traffic at the landfill site once the pay-as-you-throw program is implemented (ie: individuals will haul waste to the landfill rather than setting it out curbside).

Another important consideration is that the fee charged at many other landfill sites in the outlying areas surrounding Sault Ste. Marie is much higher in many cases relative to the fee charged at our landfill. This results in waste generated in the outlying areas being disposed of in the City landfill because of the low fee. The higher gate fee will help to reduce the level of waste hauled to the City's landfill from residents in the outlying areas.

Comparison of Fees with Other Municipalities

When comparing the fees proposed for Sault Ste. Marie you must keep in mind that you are comparing 2002 tipping fees and gate fees in other municipalities to future fees (ie: 2006) in Sault Ste. Marie. In all likelihood the user fees in other communities will be increasing over the period from 2002 to 2006. We anticipate that the proposed fee structure for Sault Ste. Marie will be very reasonable in comparison to many other municipalities in 2006. You must also keep in mind that we have to generate adequate revenues to pay for the waste management costs that will be incurred in the future. Some of the comparison communities may have significant reserve disposal capacity and/or the costs to operate their diversion programs may be lower. The proposed partial user pay system was developed to be fiscally responsible.

Questions

We would like to address each of the questions raised in your submission. We have used the same numbering system that was used in your correspondence.

- Q1. What happens when you have more than two bags of garbage in a large green container, does it go by bags or containers?*
- A1. The specific implementation approach is currently being discussed with City staff. There will be a restriction on the allowable size of containers. For example you may be allowed to set out two 120 L waste containers but if you have a larger container it will be considered a storage unit and each bag within it will be counted.
- Q2. What happens to apartment buildings where they have the large green containers and how is the garbage bags justified in the apartment building?*
- A2. The implementation strategy for apartment buildings is also being considered. For the smaller apartment buildings where waste is set out curb side, each unit will be allowed to set out two bags/containers. In the larger apartments that use waste hoppers there may be some reductions in the allowable waste limits to ensure equity with the proposed two bag limit for single family residences.
- Q3. Is the City going to supply the garbage tags free for the first year and when you purchase the \$2 tag are they to be sold separately, in a lot of 10 or as I have heard for one year (put out \$208 in one shot, I don't think so?) Are the garbage tags going to be sold only at City Hall or also at convenience stores? It may be a hardship for some people who are working Monday to Friday, to get to City Hall or others at night where they realize they need a tag and can't purchase one.*
- A3. The Waste Management Steering Committee is recommending that tags will only be required for each bag/container set out in excess of the designated bag limit. Therefore there will be no requirement for any tags on the first two bags/containers that are set out curb side. The tags will likely be sold in lots of 5 or less and will be available at a number of convenient locations which will likely include retailers.
- Q4. What happens to householders right now, who do not have a blue box or yellow box? This has been brought to my attention where people have moved. The people moving out left their boxes behind at the house, but when these same people moved into their new house, they found that the original owners took their boxes with them. Will we be able to get extra blue boxes and yellow boxes, if needed and will there also be a charge for these extra boxes. Can we put out more than one blue or yellow box each week?*
- A4. As you know the City has distributed recycling boxes to each home free of charge. Residents are responsible for their own boxes and they should take them with them when they move. The City is contemplating charging a fee for new boxes in the future in order to avoid misuse of the boxes. Residents are permitted to put out more than one box each week.

Q5. *Is an allowance going to be made during fall, when we have bags of leaves in galore and during Christmas time, is there going to be a limit on the number of garbage bags allows?*

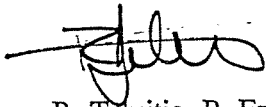
A5. The City presently has a leaf and yard waste collection program in the fall. The bags set out for the leaf and yard waste program will be collected free of charge (ie: they do not count towards the two bag limit and they will not require tags). Residents can also haul and dispose of their leaf and yard waste at a local composting facility. This service is presently being offered free of charge. The Waste Management Steering Committee is recommending that no changes be made to the bag limits during the Christmas season. Most of the additional waste that is generated during the Christmas season is recyclable (ie: paper, boxboard and cardboard).

Other Comments

You are correct that the first two bags are paid for through our municipal taxes. The question is should those individuals that are setting out two or fewer bags per week be saddled with an increased tax bill to pay for the waste being generated by others? We feel that the system proposed results in a more equitable approach to recovering the costs incurred in developing and operating the waste management system. We also concur with you that if a pay-as-you-throw program is to be successful, public education will be critical. Once a plan has been endorsed by Council a public education plan will have to be implemented and we can assure you that postings will be included on the City's website.

We hope that the information furnished herein has addressed your questions and concerns. The most important thing is that a pay-as-you-throw program is implemented and although we would prefer to see a two bag limit implemented in 2003, we would also be supportive of a phased-in approach.

Yours very truly,



R. Talvitie, P. Eng.
Project Manager

p.c. Mr. D. Elliott, City Engineering
Mr. M. Cant, TSH Whitby

APPENDIX C

**OPEN HOUSE MATERIAL
JULY 3, 2003**

CITY OF SAULT STE. MARIE
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE
PUBLIC OPEN HOUSE
JULY 3, 2003

RECEIVED
JUL 11 2003

TOTTEN SIMS HUBICKI ASSOCIATES
Sault Ste. Marie, Ontario

In September 2000, the City of Sault Ste. Marie initiated a four-phased Solid Waste Management Planning Process to provide the City with direction on all aspects of its solid waste management system for the next 20 to 40 years. The four phases of the study included:

- | | |
|----------|--|
| Phase 1: | Identification of Preferred Waste Diversion System |
| Phase 2: | Identification of a Preferred Waste Disposal System |
| Phase 3: | Development of a Business and Implementation Plan |
| Phase 4: | Development an Environmental Assessment Act Terms of Reference |

Phases 1, 2 and 3 have been completed. The final phase (4) is the subject of this Open House.

The Terms of Reference Document is intended to provide guidance to the proponent and all stakeholders to ensure that the Environmental Assessment will be prepared to an acceptable level of detail. The overall purpose of the proposed Environmental Assessment is to assess the potential impacts of expanding and/or mining the existing landfill to provide additional disposal capacity of between 1.5 and 3.0 million tonnes of solid, non-hazardous waste and biosolids.

The potential alternatives to be considered to achieve this are:

- expansion of the existing fill area by going higher;
- expansion of the existing fill area going higher combined with landfill mining;
- expansion of the fill area going higher and wider;
- expansion of the fill area going higher and wider combined with landfill mining;
- landfill mining without expansion.

A number of criteria have been developed to assess the potential environmental impacts of each alternative. The criteria, indicators and rationale are attached in Appendix A.

The Study Team is seeking your input into the relative importance of the different **criteria groups**. The Study Team asks that you assign a relative importance to each of the criteria groups (i.e. high, medium or low). The Study Team wants to understand what factors you believe to be more important and those that are less important.

Assign a rating of high, medium or low by placing checkmark in the appropriate column.

Criteria Group	High	Medium	Low
Archaeology			✓
Biology/Forestry	✓		
Design and Operations	✓		
Economics		✓	
Groundwater (Hydrogeology)	✓		
Heritage			✓
Mining			✓
Planned Land Use			✓
Social			✓
Surface Water	✓		
Transportation		✓	

The Study Team would also like any input you have on the individual criteria found in Appendix A. Please provide any comments in the space below.

HYDROGEOLOGY:

MINING AND THEN RECLINING THE OLD SITE COULD
IMPROVE FUTURE GROUND WATER QUALITY

DESIGN / SOCIAL:

① POTENTIAL FOR MORE NOISE (DUE TO OPERATIONS) ...
ESPECIALLY IF EXPANSION IS VERTICAL

② INCREASED AIR EMISSIONS ...^{a)} METHANE, ETC

b) CO₂ FROM MACHINERY

SURFACE WATER QUALITY ... PROXIMITY OF CANON CREEK
AND ROSE RIVER ... SURFACE RUN-OFF

TRANSPORTATION: SAFETY WITH TRUCKS
TURNING LEFT OFF GREAT NORTHERN ROAD
ONTO FIFTH LINE

MINING & THE AVAILABILITY OF "AGGREGATE" TO
COVER THE WASTE

#/SOCIAL: WILL THE SITE HAVE TO EXPAND HORIZONTALLY
ONTO OTHER ADJACENT PROPERTIES? IN
WHICH DIRECTION? HOW WILL THE IMPACT
PROPERTY VALUES?

Please submit your comments by August 5, 2003 to:

Rick Talvitie, P.Eng.
TSH
523 Wellington Street East
Sault Ste. Marie, Ontario
P6A 2M8
Telephone: (705) 942-2612
Fax: (705) 942-3642
E-mail: rtalvitie@tsh.ca

Assign a rating of high, medium or low by placing checkmark in the appropriate column.

Criteria Group	High	Medium	Low
Archaeology		✓	
Biology/Forestry		✓	
Design and Operations	✓		
Economics	✓		
Groundwater (Hydrogeology)	✓		
Heritage	✓		
Mining		✓	
Planned Land Use	✓		
Social		✓	
Surface Water	✓		
Transportation	✓		

The Study Team would also like any input you have on the individual criteria found in Appendix A. Please provide any comments in the space below.

MINIMIZING ENVIRONMENTAL IMPACT
WHILE MAINTAINING ECONOMIC
VIABILITY CRITICAL TO SUCCESS.

Assign a rating of high, medium or low by placing checkmark in the appropriate column.

Criteria Group	High	Medium	Low
Archaeology			✓
Biology/Forestry	✓		
Design and Operations	✓		
Economics		✓	
Groundwater (Hydrogeology)	✓		
Heritage			✓
Mining		✓	
Planned Land Use		✓	
Social			✓
Surface Water	✓		
Transportation			✓

The Study Team would also like any input you have on the individual criteria found in Appendix A. Please provide any comments in the space below.

~~Important~~ ~~Two~~

I would like to see energy focused
put towards waste generation reduction
to increase longevity of landfill site
and in addition to merely expansion.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper.

Rick Talvitie, P.Eng.
TSH
523 Wellington Street East
Sault Ste. Marie, Ontario
P6A 2M8
Telephone: (705) 942-2612
Fax: (705) 942-3642
E-mail: rtalvitie@tsh.ca

Assign a rating of high, medium or low by placing checkmark in the appropriate column.

Criteria Group	High	Medium	Low
Archaeology	✓		
Biology/Forestry		✓	
Design and Operations			
Economics	✓		
Groundwater (Hydrogeology)	✓		
Heritage		✓	
Mining		✓	
Planned Land Use	✓		
Social		✓	
Surface Water	✓		
Transportation	✓		

Business Opportunities (new)

The Study Team would also like any input you have on the individual criteria found in Appendix A. Please provide any comments in the space below.

1. Assess specific opportunities (i.e. methane gas collection, land fill mining) to watch for re: business & revenue generation. - new business opportunities.
2. Long term vision - identify best location for new site (20+ years).
3. Continue efforts to divert oil and be prepared to expedite timeframes.

4. Review commercial/industrial
waste collection for people/businesses
(e.g. apartments, etc.).

5. If possible promote business &
job opportunities to local market
place.

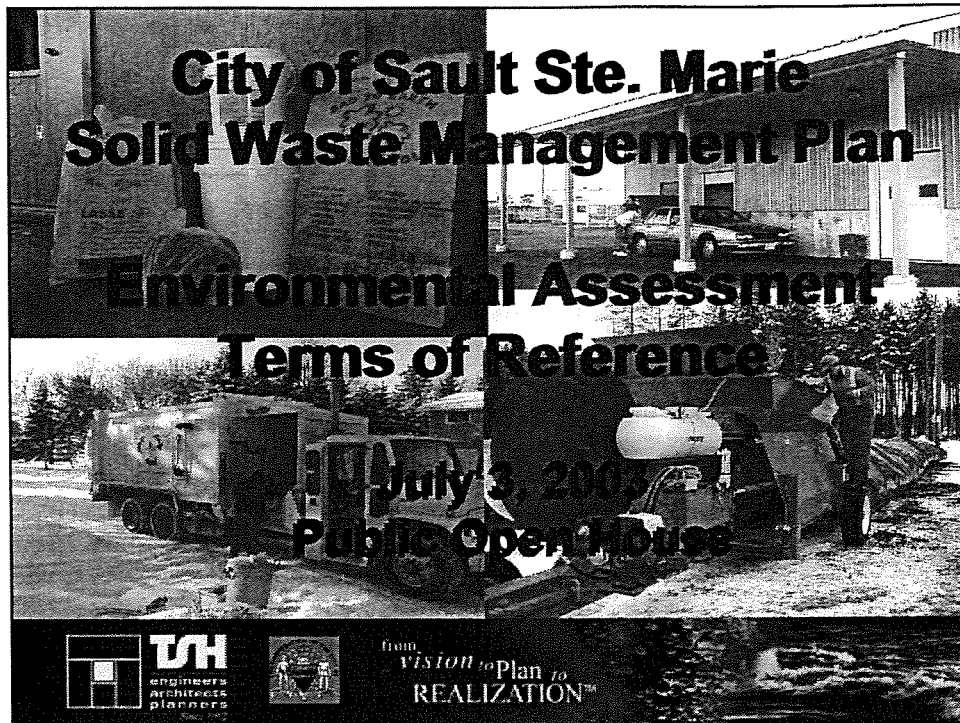
6. Revenue Generation/business opportunities - certain?

Good luck guys

Ernie

Please submit your comments by August 5, 2003 to:

Rick Talvitie, P.Eng.
TSH
523 Wellington Street East
Sault Ste. Marie, Ontario
P6A 2M8
Telephone: (705) 942-2612
Fax: (705) 942-3642
E-mail: rtalvitie@tsh.ca



WHAT AM I SUPPOSED TO DO ?

- Sign the Attendance Register;
- Pick up an Information Package;
- View the Displays;
- Ask Questions; and
- Complete a Questionnaire / Comment Sheet.

Representatives from the City of Sault Ste Marie and the Engineering Consultant (TSH) are present to answer your questions.



STUDY APPROACH

1. Review Historical Waste Management Records.
2. Identify Problems / Opportunities.
3. Identify and Evaluate Alternative Diversion / Collection Systems.
4. Identify and Evaluate Alternative Waste Disposal Systems.
5. Develop a Preferred Waste Management System Including a Business and Implementation Plan.
6. Prepare the Environmental Assessment Terms of Reference Document. ← We are Here



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PROBLEM DEFINITION

- Existing landfill will reach capacity in approximately 10 years.
- Historically the diversion level in the City has been very low (ie: 7%-8%).
- Additional revenues are required to fund the projected future increased system costs



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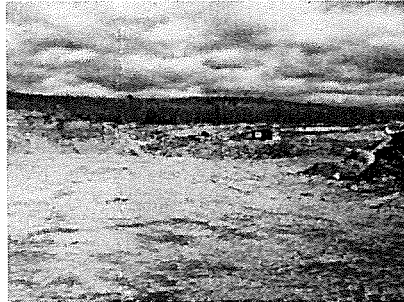
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PREFERRED WASTE MANAGEMENT SYSTEM

Waste Collection and Disposal

Weekly collection
of refuse



The refuse is trucked to the
landfill on Fifth Line and
disposed of



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PREFERRED WASTE MANAGEMENT SYSTEM

Enhanced Public Education

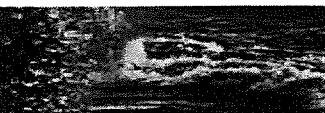
- The City hired a Waste Diversion Supervisor in 2000 and Randy Roy recently assumed this role in the fall of 2002 – Randy's responsibilities include public education and working to improve waste diversion
- The recently awarded recycling contract also includes requirements for public education and promotion of diversion activities – The Recycling Contractor is working with Randy on several initiatives



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PREFERRED WASTE MANAGEMENT SYSTEM

Household Special Waste and Re-use Centre



The City established a HSW depot in the fall of 2001 which provides for the diversion of oils, paints, car batteries, anti-freeze, pesticides, etc.

A re-use centre allows for the exchange of items between individuals with the goal of avoiding disposal in the landfill – possible implementation in 2004.



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PREFERRED WASTE MANAGEMENT SYSTEM

Curbside Collection of Expanded Recyclables and Enhanced Leaf and Yard Waste



New recycling contract (blue/yellow boxes) launched in October 2002

Projected 70% - 80% increase in tonnage in 1st year

City is considering enhancing the current leaf and yard waste program to include collection throughout the growing season (May through November)



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PREFERRED WASTE MANAGEMENT SYSTEM

Pilot Study in Progress - Can we Compost Effectively?

Key Issues to be addressed:

- willingness of residents to participate;
- quantities diverted from landfill;
- effectiveness of various technologies in processing materials; and
- projected costs.



Materials issued to pilot study residents in the Churchill Plaza area



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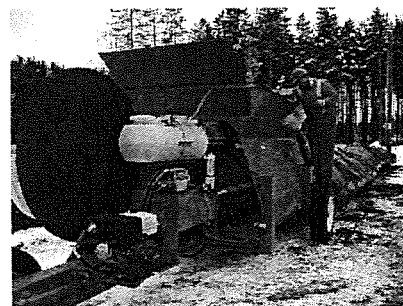


PREFERRED WASTE MANAGEMENT SYSTEM

Pilot Study in Progress - Can we Compost Effectively?



Rotating drum



Aerated static
pile technology



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PREFERRED WASTE MANAGEMENT SYSTEM

Pilot Study in Progress - Can we Compost Effectively?

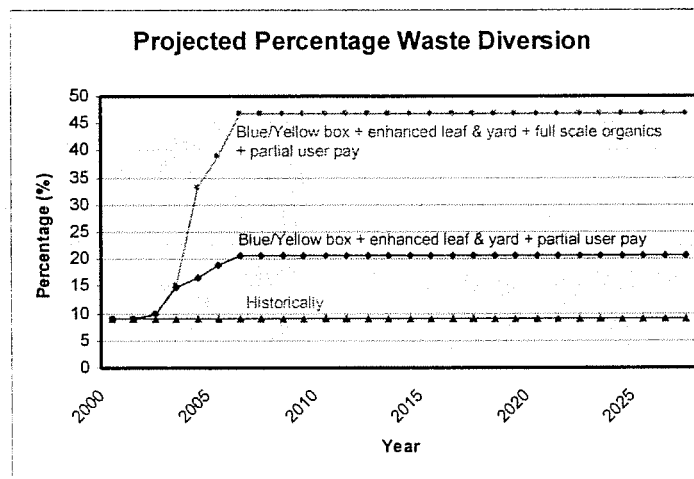
- 589 households asked to participate
- 460 households issued pilot study kit
- 220 households participated on a weekly basis and 96% of these participants would support City-wide implementation
- Estimated quantity of residential organics (kitchen & leaf/yard waste) City-wide = 15,000 tonnes/year
- Pilot study in combination with blue/yellow box program resulted in a reduction in the setout rate from 2.5 bags/hh/wk to 1.15 bags/hh/wk (ie: 54% reduction)
- Quality of compost and City-wide implementation costs are presently being assessed



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WHAT DO WE HOPE TO ACHIEVE?



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WASTE DISPOSAL OPTIONS

- The following options were considered for waste disposal once the landfill reaches capacity:
 - Incineration
 - New greenfield landfill within City limits
 - New greenfield landfill outside City limits
 - Export of waste to another site in Ontario
 - Export of waste to United States
 - Expansion of existing landfill
 - Landfill mining (reclamation of existing site)



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EVALUATION OF WASTE DISPOSAL OPTIONS

OVERALL RATING OF WASTE MANAGEMENT OPTIONS					
Option	Natural Environment	Social/Cultural	Technical	Financial	Overall
Incineration	●	●	●	●	●
Greenfield Site in City Limits	●	●	●	●	●
Greenfield Site Outside City Limits	●	●	●	●	●
Export in Ontario	●	●	●	●	●
Export to United States	●	●	●	●	●
Expansion of Existing Landfill	●	●	●	●	●
Landfill Mining	●	●	●	●	●

● Most Favorable ● In between ● Least Favorable

- Landfill mining and expansion identified as the preferred options.



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POTENTIAL EXPANSION / MINING ALTERNATIVES

- Expansion of the existing fill area by going higher
- Expansion of the existing fill area going higher combined with landfill mining
- Expansion of the fill area going higher and wider
- Expansion of the fill area going higher and wider combined with landfill mining
- Landfill mining without expansion



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COMPARATIVE CRITERIA GROUPS

- | | |
|--------------------------|--------------------|
| • Archeology | • Mining |
| • Biology / Forestry | • Planned Land Use |
| • Design and Operations | • Social |
| • Economics | • Surface Water |
| • Geology / Hydrogeology | • Transportation |
| • Heritage | |



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COMPARATIVE CRITERIA

Archeology

- Compare potential for impacts on known archeological resources “on-site”.

Biology / Forestry

- Compare potential for loss or disruption to terrestrial systems “on-site” and “off-site”.
- Compare potential for loss or disruption of aquatic systems “on-site” and “off-site”.
- Compare potential for disruption to terrestrial and aquatic communities in the vicinity of the site.



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COMPARATIVE CRITERIA

Design and Operations

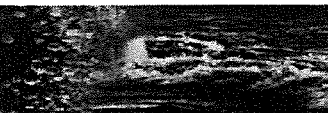
- Compare impacts on on-going operation and maintenance of the landfill site.
- Compare potential for flexibility of site operation.
- Compare potential to obtain cover material.



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COMPARATIVE CRITERIA

Economic

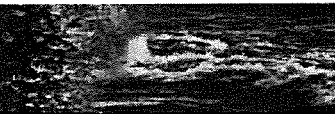
- Compare potential for displacement of businesses and employees located “on-site” and “off-site”.
- Comparative potential for lifetime cost of facility (i.e. development, operating, closure, hauling, ect.).



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COMPARATIVE CRITERIA

Geology / Hydrogeology

- Compare potential for site to provide natural protection from leachate impacts.
- Compare potential for predicting groundwater migration pathways.
- Compare potential for impacting / disrupting groundwater supplies / resources.
- Compare potential for improvement to existing groundwater conditions.



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Heritage

- Compare potential for removal of “on-site” heritage and landscapes.
- Compare potential for disruption of “off-site” heritage features and landscapes.



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COMPARATIVE CRITERIA

Mining / Aggregate

- Compare the potential for loss of or disruption to future mineral / aggregate extraction operations “on-site”.
- Compare the potential for loss of or disruption to future mineral / aggregate extraction operations “off-site”.
Presence of known mineral / aggregate potential off-site.

Surface Water

- Compare potential for impairment of surface water quality.
- Compare potential flood hazard.



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COMPARATIVE CRITERIA

Social

- Compare potential for displacement of residents living “on-site”.
- Compare potential for disruption of residents “off-site”.
- Compare potential for displacement of institutional, community and recreational features located “on-site”.
- Compare potential for disruption of institutional, community and recreation features “off-site”.
- Compare potential for disruption to communities.
- Compare potential for displacement of private property.



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COMPARATIVE CRITERIA

Transportation

- Compare potential for impacts to traffic safety along waste haul routes.
- Compare potential for impacts to traffic along waste haul routes.



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APPENDIX D

PROJECT NOTIFICATION

City of Sault Ste. Marie

Long Term Solid Waste Management Plan Draft Environmental Assessment Terms of Reference Document

Public Comment Invited

Waste management services in the City of Sault Ste. Marie include a combination of waste diversion and disposal. In recent years the City has enhanced its diversion activities substantially with the establishment of the hazardous waste facility, expansion of the dry recyclables collection, phased reduction in bag limits and expanded and increased user fees. The City of Sault Ste. Marie landfill site is estimated to have sufficient capacity to meet the needs of the community for the next 10 years. In order to ensure adequate provisions are in place for the management of the future solid waste stream, the City is proposing to undertake an Environmental Assessment to identify alternative ways and means of managing the solid waste stream for the next 25 to 40 years.

A Draft Environmental Assessment Terms of Reference document has been prepared to identify the process, tasks and activities that will be undertaken in completing an Environmental Assessment. The purpose of the Environmental Assessment is to rationalize the need for additional disposal capacity, identify alternative ways and means of disposing of solid waste, evaluate the alternatives, solicit public input on the alternatives and the evaluation methodology, and ultimately identify the preferred method for future waste disposal. Suitable mitigating measures will also be identified to address potential environmental impacts associated with the preferred disposal method.

The City of Sault Ste. Marie would like to solicit input from the public on the Draft Environmental Assessment Terms of Reference document.

An informal Public Open House will be held to receive input and comment from interested parties.

Date: Tuesday July 13, 2004

Time: 3:00 pm to 7:00 pm

Location: Biggings Room

Civic Centre,

99 Foster Drive

The Draft Environmental Assessment Terms of Reference document is available for viewing on the City of Sault Ste. Marie website. It can be accessed at www.city.sault-ste-marie.on.ca.

The project consultant and city staff will be available to discuss the Draft Environmental Assessment Terms of Reference document and the overall waste management plan. The study materials will also include the preferred waste diversion system, results from the pilot co-composting study, options for the disposal of residual waste once the existing landfill reaches capacity, and existing and future user fees.

Further details may be obtained by contacting the consultant's office:

TSH (Totten Sims Hubicki Associates)
523 Wellington Street East

Sault Ste. Marie ON P6A 2M4

Attention: Rick Talvitie, P.Eng.
Branch Manager

Telephone: 705-942-2612
Email: rtalvitie@tsh.ca

Following the meeting further comments are invited, for incorporation into the planning of this project, and will be received at the address noted above until August 31, 2004.

This Notice issued on July 3, 7 and 10th.

Don Elliott, P.Eng.
Manager of Construction and Environmental Engineering
City of Sault Ste. Marie

APPENDIX E

**OPEN HOUSE MATERIAL
JULY 13, 2004**

**CITY OF SAULT STE. MARIE
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE
PUBLIC OPEN HOUSE
JULY 13, 2004**

In September 2000, the City of Sault Ste. Marie initiated a four-phased Solid Waste Management Planning Process to provide the City with direction on all aspects of its solid waste management system for the next 20 to 40 years. The four phases of the study included:

- | | |
|----------|--|
| Phase 1: | Identification of Preferred Waste Diversion System |
| Phase 2: | Identification of a Preferred Waste Disposal System |
| Phase 3: | Development of a Business and Implementation Plan |
| Phase 4: | Preparation of an Environmental Assessment Act Terms of Reference Document |

Phases 1, 2 and 3 have been completed. The final phase (4) is the subject of this Open House.

The EA Planning Process

Although the City is pursuing opportunities for increased diversion, additional disposal capacity will be needed. New disposal capacity requires approval under the Environmental Assessment Act. The two key steps in the EA process are:

- The preparation of a Terms of Reference; and
- The preparation of the EA.

The Draft Terms of Reference presents the process the City plans to follow during the EA to identify a preferred method of disposal. The final Terms of Reference will reflect input received from the community and government agencies.

The EA will identify and evaluate “alternatives to” which are functionally different ways of dealing with the waste disposal need; and alternative methods which are different ways of doing the same activity (e.g. alternative designs or locations). Once selected, the preferred disposal method is described and measures are identified to avoid or minimize any potential effects.

Waste Management “Alternatives To”

A key component of the EA process is consideration of “alternatives to” . The City proposes to consider the following ways of addressing future waste disposal need:

- Increased Waste Diversion
- Incineration
- Greenfield landfill within City limits
- Greenfield landfill outside City limits
- Export of Waste to a disposal facility in Ontario
- Export of Waste to a disposal facility in the United States
- Do nothing

Have we considered all the “alternatives to”? What other “alternatives to” do you suggest?

These alternatives will be compared using criteria that will capture their potential for impact on the natural and socio-economic environments as well as technical consideration and costs. This evaluation will not be site specific. The proposed criteria for evaluating “alternatives to” are listed below.

PROPOSED EVALUATION CRITERIA – “ALTERNATIVES TO” EVALUATION	
Criterion	Definition
Compliance with Regulations and Policies	Addresses the ability of the “alternative to” meet all applicable regulations and policies that affect the planning, design and construction, operation and decommissioning of the alternative.
Environmental Acceptability	Addresses the potential for environmental effects associated with the alternative and the ability of the “alternative to” be approved as an environmentally acceptable option. It represents both natural environmental and social/cultural considerations.
Ability of City to Implement the Alternative	Considers whether the City has the ability and mandate to implement the alternative.
Flexibility of the System	Considers whether the alternative could respond to changes in the waste stream that could come about as a result of such things as increased diversion, changes in the economy or fluctuations in waste quantities.
Capability of Managing Waste Quantities and Qualities	Considers whether the alternative could handle the identified waste stream.
Proven Technical Capability	Considers whether the alternative has been proven through approval of similar facilities and years of successful operating experience in Ontario and other jurisdictions.
Economic/Cost	Considers the lifecycle cost of the alternative.

Do you have any comments on the “alternatives to” evaluation criteria?

Alternative Methods Evaluation

Once a preferred way of providing disposal is identified, different methods of delivering this alternative will be identified and evaluated e.g. alternative sites and alternative designs. The alternative methods will be evaluated using the criteria below.

PROPOSED EVALUATION CRITERIA FOR ALTERNATIVE METHODS	
Criteria Group	Proposed Evaluation Criteria
Natural Environment	<ul style="list-style-type: none"> • Compare potential for displacement or disruption of terrestrial features. • Compare potential for displacement or disruption of aquatic features. • Compare potential for effects on groundwater resources. • Compare potential for effects on surface water resources.
Social-Cultural Environment	<ul style="list-style-type: none"> • Compare potential for displacement or disruption to residents. • Compare potential for displacement or disruption to community features. • Compare potential for impact on future land use plans. • Compare potential for displacement or disruption of heritable or archaeological resources
Economics	<ul style="list-style-type: none"> • Compare potential for displacement or disruption to existing businesses. • Compare potential for impacts on agriculture/forestry/mining industry.
Cost	<ul style="list-style-type: none"> • Compare potential lifecycle cost of alternative.
Technical Considerations	<ul style="list-style-type: none"> • Compare potential for providing necessary service.

Do you have any comments on the alternatives method evaluation criteria?.

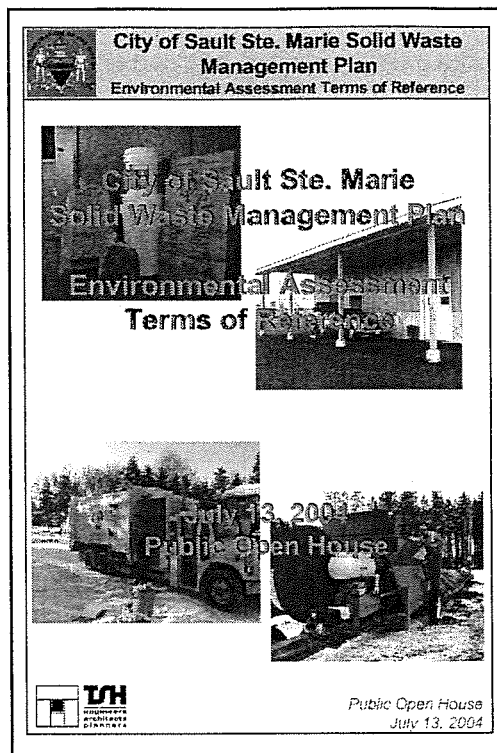
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Do you have any comments or questions on the June 2004 Draft Environmental Assessment Terms of Reference Document.

Copies of the Draft Terms of Reference Document are available online at www.city.sault-ste-marie.on.ca on the City Information Page.

Please submit your comments by August 31, 2004 to:

Rick Talvitie, P.Eng.
TSH
523 Wellington Street East
Sault Ste. Marie, Ontario
P6A 2M8
Telephone: (705) 942-2612
Fax: (705) 942-3642
E-mail: rtalvitie@tsh.ca



City of Sault Ste. Marie Solid Waste Management Plan
Environmental Assessment Terms of Reference

WHAT AM I SUPPOSED TO DO ?

- Sign the Attendance Register;
- Pick up an Information Package;
- View the Displays;
- Ask Questions; and
- Complete a Questionnaire / Comment Sheet.

Representatives from the City of Sault Ste Marie and the Engineering Consultant (TSH) are present to answer your questions.

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Public Open House
July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

STUDY APPROACH

1. Review Historical Waste Management Records.
2. Identify Problems / Opportunities.
3. Identify and Evaluate Alternative Diversion / Collection Systems.
4. Identify and Evaluate Alternative Waste Disposal Systems.
5. Develop a Preferred Waste Management System Including a Business and Implementation Plan.
6. Prepare the Environmental Assessment Terms of Reference Document.

← We are Here



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July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

PROBLEM DEFINITION

- Existing landfill will reach capacity in approximately 10 years.
- Historically residential diversion level in the City has been very low (i.e. 8%).
- Additional revenues are required to fund the projected future increased system costs



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July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

**PREFERRED WASTE MANAGEMENT
SYSTEM**
Waste Collection and Disposal

Weekly
collection of
refuse



The refuse is
trucked to the
landfill on Fifth
Line and
disposed of



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July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

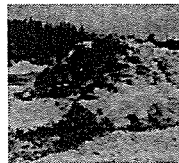
**PREFERRED WASTE MANAGEMENT
SYSTEM**
Curbside Collection of Expanded
Recyclables and Enhanced Leaf
and Yard Waste



New recycling contract
(blue/yellow boxes)
launched in October
2002

Residential Diversion
rate increased from 8%
to 28%

City is considering
enhancing the current
leaf and yard waste
program to include
collection throughout
the growing season
(May through
November)



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July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

**PREFERRED WASTE MANAGEMENT
SYSTEM**

Enhanced Public Education

- The City hired a Waste Diversion Supervisor in 2000 and responsibilities include public education and working to improve waste diversion
- The new recycling contract also includes requirements for public education and promotion of diversion activities – The Recycling Contractor is working with City on several initiatives



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July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

**PREFERRED WASTE MANAGEMENT
SYSTEM**

**Household Special Waste
and Re-use Centre**



The City established a HSW depot in the fall of 2001 which provides for the diversion of oils, paints, car batteries, anti-freeze, pesticides, etc.

A re-use centre allows for the exchange of items between individuals with the goal of avoiding disposal in the landfill – possible implementation in 2005.



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**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

**PREFERRED WASTE MANAGEMENT
SYSTEM**

**Pilot Composting Study- Can we
Compost Effectively?**

**Key Issues
addressed:**

- willingness of residents to participate;
- quantities diverted from landfill;
- effectiveness of various technologies in processing materials; and
- projected costs.



**Materials issued to
pilot study residents
in the Churchill
Plaza area**



*Public Open House
July 13, 2004*



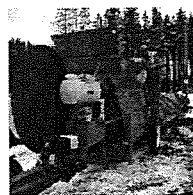
**City of Sault Ste. Marie Solid Waste
Management Plan**
Environmental Assessment Terms of Reference

**PREFERRED WASTE MANAGEMENT
SYSTEM**

**Pilot Study in Progress - Can we
Compost Effectively?**




**Rotating
drum
technology**



**Aerated
static pile
technology**



*Public Open House
July 13, 2004*




City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference


PREFERRED WASTE MANAGEMENT SYSTEM

Pilot Study in Progress - Can we Compost Effectively?

- 460 households issued pilot study kit
- 220 households participated on a weekly basis and 96% of these participants would support City-wide implementation
- Estimated quantity of residential organics (kitchen & leaf/yard waste)
City-wide = 15,000 tonnes/year
- Pilot study in combination with blue/yellow box program resulted in a reduction in the setout rate from 2.5 bags/hh/wk to 1.15 bags/hh/wk (i.e.: 54% reduction)



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City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference

PREFERRED WASTE MANAGEMENT SYSTEM

Pilot Study in Progress - Can we Compost Effectively?

- Recommended the City not compost residential, IC&I and biosolids at this time. Factors that may influence this recommendation in the future include:
 - Changes in the compost standards in the province
 - Province imposes a ban on landfilling residential organics and/or biosolids



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**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

IMPLEMENTATION SCHEDULE

- Increase Landfill Gate Fee to \$4.00/visit Sept 1, 2003.
- Increased Tipping Fee to \$40/tonne Sept 1, 2003.
- Reduced Bag Limit to 4 units per hhld/week Jan 1, 2004.
- Charge Fee of \$2.00 per bag in excess of bag limit Jan 1, 2004.
- Reduced Bag Limit to 3 units per hhld/week March 1, 2004.
- Reduce bag limit to 2 units per hhld/week Jan 1, 2005.
- Increase Tipping Fee to \$55/tonne Jan 1, 2005.
- Increase Gate Fee to \$6.00/visit Jan 1, 2006.
- Increase Tipping Fee to \$65/tonne Jan 1, 2006.

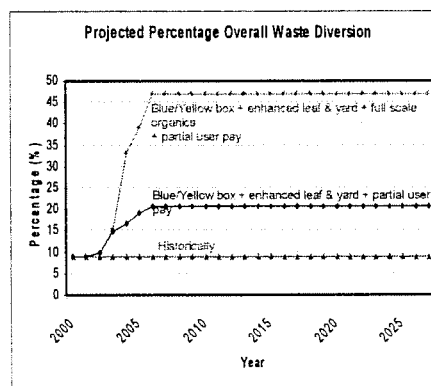


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**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

WHAT DO WE HOPE TO ACHIEVE?



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**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

Environmental Assessment

- After diversion still require disposal capacity
- The Environmental Assessment Act must be followed for new disposal capacity
- EA Process is a decision making process that takes all aspects of the environment into account
- Carried out in two steps:
 - Terms of Reference
 - EA Preparation

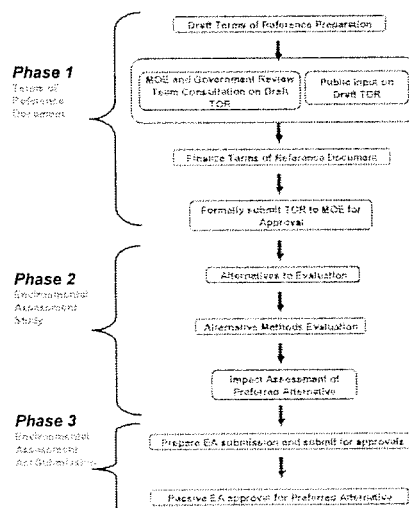


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**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

Environmental Assessment Work Plan



Public Open House
July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

Purpose of Terms of Reference

- Establish the scope and approach that will be followed for the disposal EA
- Address the full requirements of the EA Act

Purpose of the Undertaking

- To provide long term environmentally sound disposal capacity for solid, non-hazardous residential, ICI, C&D waste and biosolids



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**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

"Alternatives To"

- Increased Waste Diversion
- Incineration
- Greenfield landfill within City limits
- Greenfield landfill outside the City limits
- Export of Waste to a disposal facility in Ontario
- Export of waste to a disposal facility in the USA
- Expansion and/or mining of the existing site
- Do nothing




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July 13, 2004*




**City of Sault Ste. Marie Solid Waste
Management Plan**
 Environmental Assessment Terms of Reference

Criteria - "Alternatives To"

Compliance with Regulations and Policies	<ul style="list-style-type: none"> Addresses the ability of the "alternative to" meet all applicable regulations and policies that affect the planning, design and construction, operation and decommissioning of the alternative.
Environmental Acceptability	<ul style="list-style-type: none"> Addresses the potential for environmental effects associated with the alternative and the ability of the "alternative to" be approved as an environmentally acceptable option. It represents both natural environmental and social/cultural considerations.
Ability of City to Implement the Alternative	<ul style="list-style-type: none"> Considers whether the City has the ability and mandate to implement the alternative.
Flexibility of the System	<ul style="list-style-type: none"> Considers whether the alternative could respond to changes in the waste stream that could come about as a result of such things as increased diversion, changes in the economy or fluctuations in waste quantities.
Capacity of Managing Waste Quantities and Qualities	<ul style="list-style-type: none"> Considers whether the alternative could handle the identified waste stream.
Proven Technical Capability	<ul style="list-style-type: none"> Considers whether the alternative has been proven through approval of similar facilities and years of successful operating experience in Ontario and other jurisdictions.
Estimated Cost	<ul style="list-style-type: none"> Considers the lifecycle cost of the alternative.



Public Open House
 July 13, 2004




**City of Sault Ste. Marie Solid Waste
Management Plan**
 Environmental Assessment Terms of Reference

"Alternative Methods"

Considers alternative locations, designs and technologies

- Involves more extensive data collection
- Considers impacts on-site, site vicinity and along transportation routes



Public Open House
 July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

Criteria – Alternative Methods

Natural Environment	• Compare potential for displacement or disruption of terrestrial features
	• Compare potential for displacement or disruption of aquatic features
	• Compare potential for effects on groundwater resources
	• Compare potential for effects on surface water resources
Social/ Cultural Environment	• Compare potential for displacement or disruption to residents
	• Compare potential for displacement or disruption to community features
	• Compare potential for impact on future land use plans
	• Compare potential for displacement or disruption of heritage or archaeological resources
Economic	• Compare potential for displacement or disruption to existing businesses
	• Compare potential for effects on agriculture/forestry/mining industry
Cost	• Compare potential cost of alternative
Technical	• Compare potential for providing necessary service



Public Open House
July 13, 2004



**City of Sault Ste. Marie Solid Waste
Management Plan
Environmental Assessment Terms of Reference**

Alternative Methods - Evaluation

- Data Collection to determine potential effects
- Ranking of Alternatives
- Ranking of Criteria/criteria groups
- Comparative evaluation highlighting tradeoffs
- Decision on preferred alternative



Public Open House
July 13, 2004



Detailed Assessment of the Solution

- The preferred disposal solution will be:
 - Described at a conceptual level
 - Assessed in detail to determine potential effects and identify mitigation
- Assessment includes construction, operation, closure/post closure
- Mitigation strategy to minimize potential effects is identified



*Public Open House
July 13, 2004*



Summary of First Nation Consultation

TABLE 2
CITY OF SAULT STE. MARIE SOLID WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE ("ToR")
SUMMARY OF FIRST NATION CONSULTATION

Organization	Contact	Date Contacted	Remarks
Batchewana First Nation (BFN) (Note: the ToR and Consultation report were initially forwarded to BFN on March 2, 2005)	Joe Corbiere Acting Band Manager	May 12, 2005	Questioned whether BFN had an opportunity to review the ToR document that was sent to them in March/05. Mr. Corbiere indicated that he was not aware of the document. TSH agreed to forward another copy for his review. TSH also suggested that a meeting be arranged in approximately one week's time to discuss the document.
		May 13, 2005	Copies of ToR and associated Consultation report were delivered by courier to BFN.
		May 17-18, 2005	Called several times but Mr. Corbiere was unavailable.
		May 19, 2005	Left a message for Mr. Corbiere.
		May 20, 2005	Left a message for Mr. Corbiere.
		May 25, 2005	Left a message for Mr. Corbiere.
		May 26, 2005	Left a message for Mr. Corbiere. Mr. Corbiere returned my call and a meeting was arranged for June 3, 2005.
		June 3, 2005	Rick Talvitie (TSH) and Don Elliott (City SSM Engineering) conducted a meeting with Joe Corbiere and Agnus Lidstone of BFN (refer to the attached meeting report).
		June 15, 2005	Faxed a copy of a DRAFT meeting report for comments.
		June 22, 2005	Contacted Mr. Corbiere to obtain his feedback on the DRAFT meeting report. He indicated he had not seen the report. We re-faxed the DRAFT report.
		June 24, 2005	Left message for Joe Corbiere.
		June 28, 2005	Left message for Joe Corbiere.
		June 30, 2005	Left message for Joe Corbiere.
		July 6, 2005	Left message for Joe Corbiere. Mr. Corbiere called me back and forwarded his comments relating to the meeting report (copy attached).

TABLE 2
CITY OF SAULT STE. MARIE SOLID WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE ("ToR")
SUMMARY OF FIRST NATION CONSULTATION

Organization	Contact	Date Contacted	Remarks
Garden River First Nation (GRFN) (Note: the ToR and Consultation report were initially forwarded to GRFN on March 2, 2005)	Caroline Barry, CEO	May 12, 2005	Questioned whether GRFN had an opportunity to review the ToR document that was sent to them in March/05. Ms. Barry indicated that she was not aware of the document. TSH agreed to forward another copy for her review. TSH also suggested that a meeting be arranged in approximately one week's time to discuss the document.
		May 13, 2005	Copies of ToR and associated Consultation report were delivered by courier to GRFN.
		May 17, 2005	Ms. Barry acknowledged receipt of the second copy of the document and agreed to contact TSH once she had an opportunity to review it.
		May 25, 2005	Left a message for Ms. Barry.
		May 26, 2005	Left a message for Ms. Barry. Ms. Barry returned my call and suggested that I call her on June 1 after their budget deliberations were completed.
		June 1, 2005	Left a message for Ms. Barry. Ms. Barry returned my call but I was unavailable.
		June 2, 2005	Arranged a meeting for June 3, 2005.
		June 3, 2005	Rick Talvitie (TSH) and Don Elliott (City SSM Engineering) conducted a meeting with Caroline Barry of GRFN (refer to the attached meeting report).
		June 15, 2005	Faxed a copy of a DRAFT meeting report for comments.
		June 22, 2005	Contacted Ms. Barry to obtain her feedback on the DRAFT meeting report. She indicated that it was a good summary and agreed to respond in writing.
		July 7, through July 27, 2005	Exchanged messages with Ms. Barry on numerous occasions and discussed their outstanding reply on several occasions.
		July 27, 2005	Received a written reply.

TABLE 2
CITY OF SAULT STE. MARIE SOLID WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE ("ToR")
SUMMARY OF FIRST NATION CONSULTATION

Organization	Contact	Date Contacted	Remarks
Association of Iroquois and Allied Indians (AIAI) (Note: the ToR and Consultation report were initially forwarded to AIAI on March 2, 2005)	Ms. Rolanda Relijah (519-434-2761)	June 22, 2005	The Association of Iroquois and Allied Indians have been involved in some restructuring and have not had an opportunity to provide comments on the ToR document. Ms. Relijah indicated that they normally respond with a form type letter. The letter generally addresses aboriginal hunting and fishing rights, impacts to landscape and historical features and consultation with member First Nations (ie: Batchewana FN in this case). I suggested that TSH forward a digital copy of the reports so that they are readily available. Ms. Relijah agreed to try to respond by June 24, 2005. Reports were emailed.
		June 28, 2005	Left a message for Rolanda.
		July 6, 2005	Left a message for Rolanda.
Union of Ontario Indians (UOI) (Note: the ToR and Consultation report were initially forwarded to UOI on March 2, 2005)		June 3, 2005	Letter dated June 3 was received which asserts the need for consultation with the Union of Ontario Indians and its relevant member FN communities (ie: Garden River FN in this case). It also indicated that the exchange of correspondence is not considered consultation. Recommended that meetings be arranged with all potentially impacted Anishinabek First Nation communities. TSH has responded to advise of the consultation that was undertaken with GRFN (ie: June 3, 2005 meeting). A copy of the meeting report was attached to the correspondence.
Métis Nation of Ontario	Michelle Dale (254-1768)	June 16, 2005	Advised that TSH would like to provide a copy of the ToR document to solicit any input or comments they may have. We were advised to submit the report to Michelle Dale.
		June 17, 2005	Delivered copies of the ToR and associated Consultation report.

TABLE 2
CITY OF SAULT STE. MARIE SOLID WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE ("ToR")
SUMMARY OF FIRST NATION CONSULTATION

Organization	Contact	Date Contacted	Remarks
		June 22, 2005	Arranged a meeting for June 24, 2005 to discuss the contents of the ToR and associated Consultation report.
		June 24, 2005	Called to confirm our meeting. Michelle returned my call and based on her brief review of the ToR she indicated that Brent McHale (781-3394) should be involved in the meeting.
		June 24, 2005	Contacted Brent McHale and left a message.
		June 28, 2005	Contacted Brent McHale and arranged a meeting for June 30 at 10:00 am.
		June 28, 2005	Left message for Michelle Dale to confirm whether June 30 at 10:00 am is suitable.
		June 29, 2005	Contacted Brent McHale and Michelle Dale and revised the meeting time to 9:15 am.
		July 12, 2005	Issued a meeting report to Michele Dale.
		July 18 through to July 27, 2005	Exchanged messages with Ms. Dale on numerous occasions and discussed their outstanding reply on several occasions.
		July 27, 2005	Sent an email message requesting a response by the end of the week.
Ontario Métis Aboriginal Association	Germaine Elliott (946-5900)	July 28, 2005	Received an email response.
		June 16, 2005	Advised that TSH would like to provide a copy of the ToR document to solicit any input or comments they may have. We were advised to submit the report to Germaine Elliott.
		June 17, 2005	Delivered copies of the ToR and associated Consultation report.
		June 22, 2005	Left a message for Germaine Elliott.
		June 23, 2005	Left a message for Germaine Elliott.
		June 24, 2005	Left a message for Germaine Elliott.
		June 28, 2005	Left a message for Germaine Elliott.

TABLE 2
CITY OF SAULT STE. MARIE SOLID WASTE MANAGEMENT PLAN
ENVIRONMENTAL ASSESSMENT TERMS OF REFERENCE ("ToR")
SUMMARY OF FIRST NATION CONSULTATION

Organization	Contact	Date Contacted	Remarks
			Germaine called me back and we arranged to meet at 3:00 pm.
		July 12, 2005	Issued a meeting report.
		July 18 through to July 27, 2005	Exchanged messages with Ms. Dale on numerous occasions and discussed their outstanding reply on several occasions.
		July 27, 2005	Sent an email message requesting a response by the end of the week.
		July 28, 2005	Received an email response.



AECOM

Appendix **B**

**Public Consultation Event
Detailed Documentation**



Solid Waste Disposal Environmental Assessment

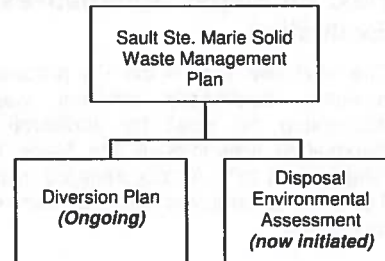
Newsletter No.1, October 2006

Page 1

Sault Ste. Marie Begins the Disposal Environmental Assessment (EA)

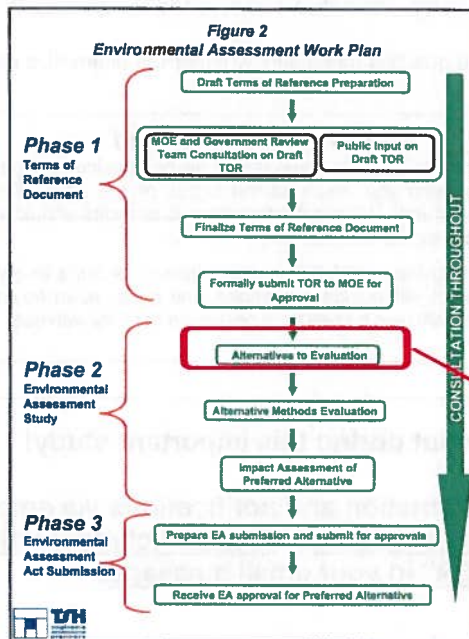
In September 2005 the Minister of the Environment approved the Environmental Assessment Terms of Reference (EA TOR) for the Sault Ste. Marie Solid Waste Management Plan. The EA TOR documents the process that will be followed to determine the preferred method for managing solid waste in Sault Ste. Marie for the next 20 to 40 years. In addition to the disposal EA, the Sault Ste. Marie Solid Waste Management Plan includes a significant diversion component.

A copy of the EA TOR is attached for your reference.



Diversion Update

The City of Sault Ste. Marie's waste diversion program currently includes collection and recycling of fibers and containers (ie: curbside yellow and blue box program); bi-weekly collection and composting of leaf and yard waste; a household hazardous waste depot; and segregation and recycling of metals, white goods, tires, and clean wood and brush at the solid waste landfill at 402 Fifth Line East. In 2005, the City limited residential waste setout to 2 bags/containers per week per household. Tags for additional waste bags or containers must be purchased. The residential waste diversion program diverted approximately 32% of residential waste from the landfill in 2005. This is a significant increase compared to the 8% diverted in 2000!



The EA Process Overview

The Environmental Assessment for disposal capacity includes three key phases. The first phase was completed with the submission and approval of the EA Terms of Reference. We are now initiating the second phase: the Environmental Assessment Study itself. The last phase is submission of the EA documentation to the Ministry of the Environment and the subsequent government and public review and approval period. It is anticipated that the whole process will take until early 2009.

WE ARE HERE

The City has retained a team of consultants including Totten Sims Hubicki Associates and Dillon Consulting Limited to assist them in the preparation of the Waste Disposal EA.



Solid Waste Disposal Environmental Assessment

Newsletter No.1, October 2006

Page 2

Next EA Steps: "Alternatives To" Evaluation

The next key step in the EA process is to evaluate functionally different ways of addressing the need for additional waste disposal capacity in Sault Ste. Marie, (ie. the "alternatives to"). As documented in the EA TOR, the alternatives being considered are as follows:

- Increased 3R's (reduce, reuse, recycle);
- Incineration & High Heat Processes;
- Landfill;
- Export Waste Outside Service Area;
- Do nothing.

Contact Us

Your input on this project is important to us. If you would like further information or to send comments, ask questions or be added to our mailing list, please contact us:

Mr. Rick Talvitie, P.Eng
Project Manager
Totten Sims Hubicki
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4

Phone: 705-942-2612
Fax: 705-942-3642
Email: rtalvitie@tsh.ca

Mrs. Susan Hamilton-Beach, P.Eng.
Director of Engineering Services
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, Ontario
P6A 5N1

Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

The evaluation of "alternatives to" will be carried out at a general level. Specific locations and technologies for the above mentioned alternatives will not be included in this step but will be considered in the next step (ie. alternative methods evaluation).

In the EA Terms of Reference, criteria were proposed for the evaluation of the "alternatives to". The proposed criteria for the evaluation of "alternatives to" are listed below.

- Compliance with regulations and policies (addresses the ability to meet all applicable regulations and policies);
- Environmental acceptability (addresses potential environmental affects of the alternative);
- Ability of the City to implement the alternative (considers whether the City has the ability and mandate to implement the alternative);
- Flexibility of the system (considers whether the alternative can respond to changes in the waste stream);
- Capability of managing waste quantities and qualities (considers whether the alternative could handle the identified waste stream);
- Proven technical capability (considers whether the alternative has been proven successful in other experiences in Ontario or other jurisdictions); and
- Economic/Cost (considers the relative cost differences among the alternatives)

Keeping You Informed

This newsletter is part of a series that will be ongoing during this project to keep you aware of the status of the Solid Waste Management Plan. Contact information is provided should you wish more detailed information.

In addition to the newsletter, opportunities to become involved in the project will include workshops, and public open houses. Information will also be regularly posted on the City web site.

We look forward to receiving your input during this important study!

If you would prefer to receive future information and notifications via email please forward your email address to nirwin@tsh.ca. Please include the title "City of SSM Waste Disposal EA" in your email message.



January 3, 2007

Chief Dean Sayers

Batchewana First Nation
236 Frontenac Street
Sault Ste. Marie, Ontario
P6A 5K9

Dear Chief Sayers,

**Re: City of Sault Ste. Marie
Waste Disposal Environmental Assessment
TSH Project No. 60395**

The City's existing waste disposal site has an estimated nine to ten years of remaining capacity and can accept waste generated within the City of Sault Ste. Marie, Prince Township and Rankin Reserve. TSH Engineers has been retained by the City of Sault Ste. Marie to undertake an Environmental Assessment to address the problem of diminishing waste disposal capacity at the existing site. Recently, we sent you a newsletter which provided relevant contact information, an overview of the Environmental Assessment process, and identified the next steps to be undertaken.

In June, 2005 we also met with representatives of Batchewana First Nations to discuss the development of the Terms of Reference ("ToR") Document (refer to the attached meeting report). The ToR document sets out the process that will be followed in undertaking the Environmental Assessment.

During our June, 2005 meeting with Joe Corbiere and Agnes Lidstone we indicated that Batchewana First Nations would have an opportunity to assist in developing a consultation strategy for First Nation Communities and to participate in Public Input Sessions. We would like to meet with relevant community representatives to discuss this matter further and to update you on the progress of the study.

In addition we would also like to obtain any historical population data and population projections that are available for Rankin Reserve. Specifically, population data dating back to 1985 together with any available population projections would be greatly appreciated. We require this information to assist us in identifying the quantity of wastes to be managed in the future.

We will be contacting you in the near future to arrange a meeting. In the meantime please contact the undersigned should you have any questions.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

Encl.

p.c. S. Hamilton-Beach
K. Kolli

January 3, 2007

Caroline Barry

Garden River First Nation
7 Shingwauk Street, RR #4
Sault Ste. Marie, Ontario
P6A 5K9

Dear Ms. Barry:

**Re: City of Sault Ste. Marie
Waste Disposal Environmental Assessment
TSH Project No. 60395**

The City's existing waste disposal site has an estimated nine to ten years of remaining capacity and can accept waste generated within the City of Sault Ste. Marie, Prince Township and Rankin Reserve. TSH Engineers has been retained by the City of Sault Ste. Marie to undertake an Environmental Assessment to address the problem of diminishing waste disposal capacity at the existing site. Recently, we sent you a newsletter which provided relevant contact information, an overview of the Environmental Assessment process, and identified the next steps to be undertaken.

In June, 2005 we also met with you to discuss the development of the Terms of Reference ("ToR") Document (refer to the attached meeting report). The ToR document sets out the process that will be followed in undertaking the Environmental Assessment.

During our June, 2005 meeting we indicated that Garden River First Nations would have an opportunity to assist in developing a consultation strategy for First Nation Communities and to participate in Public Input Sessions. We would like to meet with relevant community representatives to discuss this matter further and to update you on the progress of the study.

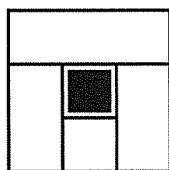
We will be contacting you in the near future to arrange a meeting. In the meantime please contact the undersigned should you have any questions.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

Encl.

p.c. S. Hamilton-Beach
K. Kolli



TSH
engineers
architects
planners

**BATCHEWANA FIRST NATION
CONSULTATION STRATEGY
MEETING REPORT**

Project: City of Sault Ste. Marie Waste Disposal EA

TSH No. 60395

Meeting Date: March 19, 2007

Meeting Time: 11:15 am

Report Date: April 2, 2007

Recorder: R. Talvitie

Page 1 of 3

Note: If any of the contents of this meeting report differ in any respect from your own recollection of the points discussed or decisions reached, please notify us immediately. In the meantime, we will proceed in accordance with the understanding described herein.

LOCATION: Batchewana First Nations Community Centre

PRESENT: Chief Dean Sayers, BFN
Susan Hamilton-Beach, City SSM
Rick Talvitie, TSH

PURPOSE: To provide an update on the project progress and to discuss strategies for consulting with Batchewana First Nations Members.

Action By

1.0 Introduction and Background

RT provided an overview of the project background.

- Met with Batchewana First Nation in the spring of 2005 to discuss the Terms of Reference ("ToR"). The ToR provides the framework for guiding the implementation of the Environmental Assessment ("EA"). Info.
- City has secured the services of a consultant team to undertake the EA (ie: TSH and Dillon). Info.
- Approximately 11 years of disposal capacity remaining at the Fifth Line landfill. Info.
- City has been very aggressive in enhancing waste diversion through new and enhanced programs. Info.
- Currently diverting approx. 35% of the residential waste stream in comparison to 8% in 2000. Info.
- Residential diversion programs include: Info.
 - Blue/Yellow box (residential, multi-residential and schools);
 - Leaf and yard waste collection bi-weekly and backyard composters;
 - Household Special Waste Facility for hazardous wastes;
 - Reduced set-out limits (reduced from 6 bags/containers to two bags/containers per household);
 - Partial Pay-as-you-throw program (ie: \$2 per bag/container beyond limit);

	Action By
<ul style="list-style-type: none"> ○ Increased gate and tipping fees at the landfill; ○ Segregation of waste at the landfill; and ○ Special events coordinated by Clean North (Christmas trees and WEEE). <ul style="list-style-type: none"> ● IC&I increasing significantly as well through enhanced MOE enforcement. 	Info.
<p>Chief DS expressed his appreciation for updating him on the project and explained that he cannot speak on behalf of Council and noted that the current meeting should not be construed as consultation. Furthermore the meeting that was conducted with Joe Corbiere in 2005 may not have reflected the interests of BFN. Chief Sayers requested that Council be given an opportunity to review the Terms of Reference.</p>	Info.
<p>RT explained that the ToR was approved by the MOE in September 2005 but there is a significant amount of flexibility incorporated into the document. Furthermore the Environmental Assessment process is intended to be responsive to issues and concerns raised. TSH to forward a covering letter together with a copy of the ToR for review by Chief and Council.</p>	Info. TSH
<h2>2.0 Alternatives To</h2>	
<p>RT explained that the project team is currently looking at “alternatives to” the undertaking (different ways of managing the waste stream including diversion and disposal).</p>	Info.
<p>The “alternatives to” being considered include:</p> <ul style="list-style-type: none"> ● Increased Waste Diversion ● Incineration and High Heat Processes ● Landfill ● Export of Waste Outside the Service Area ● Do nothing 	Info.
<p>A series of evaluation criteria were developed and presented in the ToR which are intended to be used to evaluate the “Alternatives”. A draft “Alternatives To” Report will be released in advance of the public input sessions and will document the preliminary evaluation completed.</p>	Info.
<p>RT explained that the City believes it is important to table issues and concerns regarding the alternatives and the evaluation as early in the process as possible. This can be effectively achieved by consulting with potentially impacted communities and stakeholders early in the process.</p>	Info.
<p>Input is specifically being solicited regarding the alternatives being considered, the evaluation criteria and the relative importance of the criteria with the intent of establishing a preferred “Alternative To”.</p>	Info.

Action By

RT suggested that it may be advantageous to conduct a distinct public input session in BFN to solicit input from First Nation members. Info.

Chief Sayers suggested that a submission be made to Chief and Council requesting their input on an effective consultation strategy. Council will have an opportunity to address this matter at a Council meeting to be conducted the second week of April. TSH

Chief Sayers noted that he expects that his Council will be anxious to participate in the study process. Info.

END OF MEETING REPORT

Submitted By:

R. Talvitie, P.Eng.
Project Manager

cc: all inattendance
R. Roy
K. Kolli

March 21, 2007

Chief Lyle Sayers and Council
Garden River First Nation
7 Shingwauk Street
Garden River, ON
P6A 5K9

Dear Chief Lyle Sayers and Council:

**Re: City of Sault Ste. Marie
Solid Waste Disposal Environmental Assessment
TSH Project No. 38-60395**

We are looking forward to meeting with Chief and Council on March 27th to outline the status of the subject project and discuss consultation strategies. We have included herein a copy of a Newsletter that provides an overview of the current status of the project and the next steps to be undertaken in the process.

We believe it is important to solicit input regarding the alternatives being considered and the evaluation of the alternatives as early in the process as possible. In order to facilitate meaningful input from your community members we would first like to establish an appropriate consultation strategy.

As an example we believe it may be advantageous to conduct a distinct public input session in your community to solicit feedback on the alternatives being considered, the evaluation criteria and the relative importance of the criteria. The format for the session could include a presentation regarding the alternatives and evaluation criteria together with facilitated discussions to obtain feedback. We would also provide a series of descriptive display panels to educate and encourage feedback.

We are looking forward to working with Chief and Council on March 27th to establish a suitable consultation strategy. There will be several opportunities for input throughout the process and we are hopeful that the first consultation event can be conducted in approximately 6 weeks time.

Should you have any questions please contact the undersigned.

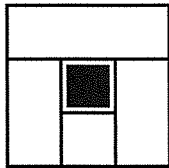
Yours very truly,

Rick Talvitie, P.Eng.,
Branch Manager

Encl.

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p.c. S. Hamilton-Beach
K. Kolli



TSH
engineers
architects
planners

**MISSANABIE CREE
CONSULTATION STRATEGY
MEETING REPORT**

Project: City of Sault Ste. Marie Waste Disposal EA

TSH No. 60395

Meeting Date: March 26, 2007

Meeting Time: 1:30 pm

Report Date: April 2, 2007

Recorder: R. Talvitie

Page 1 of 4

Note: If any of the contents of this meeting report differ in any respect from your own recollection of the points discussed or decisions reached, please notify us immediately. In the meantime, we will proceed in accordance with the understanding described herein.

LOCATION: Missanabie Cree Boardroom

PRESENT: Lesley Gagnon, Missanabie Cree
Susan Hamilton-Beach, City SSM
Rick Talvitie, TSH

PURPOSE: To provide an update on the project progress and to discuss strategies for consulting with Missanabie Cree members.

Action By

1.0 Introduction and Background

Missanabie Cree have 304 voting members, 70 of which are located in Sault Ste. Marie. Info.

Missanabie Cree have no land base. Info.

RT provided an overview of the project background.

- A copy of the Terms of Reference ("ToR") was forwarded in advance of the meeting. The ToR provides the framework for guiding the implementation of the Environmental Assessment ("EA"). Info.
- City has secured the services of a consultant team to undertake the EA (ie: TSH and Dillon). Info.
- Approximately 11 years of disposal capacity remaining at the Fifth Line landfill. Info.
- City has been very aggressive in enhancing waste diversion through new and enhanced programs. Info.
- Currently diverting approx. 35% of the residential waste stream in comparison to 8% in 2000. Info.
- Residential diversion programs include: Info.
 - Blue/Yellow box (residential, multi-residential and schools);
 - Leaf and yard waste collection bi-weekly and backyard composters;

Action By

- Household Special Waste Facility for hazardous wastes;
- Reduced set-out limits (reduced from 6 bags/containers to two bags/containers per household);
- Partial Pay-as-you-throw program (ie: \$2 per bag/container beyond 2 bag/container limit);
- Increased gate and tipping fees at the landfill;
- Segregation of waste at the landfill; and
- Special events coordinated by Clean North (Christmas trees and WEEE).
- IC&I diversion rate is also increasing significantly through enhanced MOE enforcement. Info.

2.0 Alternatives To

RT explained that the project team is currently looking at “alternatives to” the undertaking (different ways of managing the waste stream including diversion and disposal). Info.

The “alternatives to” being considered include: Info.

- Increased Waste Diversion
- Incineration and High Heat Processes
- Landfill
- Export of Waste Outside the Service Area
- Do nothing

A series of evaluation criteria were developed and presented in the ToR which are intended to be used to evaluate the “Alternatives”. A draft “Alternatives To” Report will be released in advance of the public input sessions and will document the preliminary evaluation completed. Info.

RT explained that the City believes it is important to table issues and concerns regarding the alternatives and the evaluation as early in the process as possible. This can be effectively achieved by consulting with potentially impacted communities and stakeholders early in the process. Info.

Input is specifically being solicited regarding the alternatives being considered, the evaluation criteria and the relative importance of the criteria with the intent of establishing a preferred “Alternative To”. Info.

RT explained that an invitation will be extended to neighbouring First Nations communities, the general public and relevant agencies to participate in the Public Input Sessions. As a minimum, some representation from the Missanabie Cree would be appreciated. TSH to forward a Newsletter with particulars. TSH

		Action By
	TSH to investigate posting the event in the Missanabie Cree monthly calendar and providing a newsletter for mailing with the calendar.	TSH
3.0	Issues Noted	
	LG noted the following waste management issues should be considered in the Environmental Assessment:	
	<ul style="list-style-type: none"> Active enforcement (ie: fines) is a component of the waste diversion programs in Guelph and should be considered in Sault Ste. Marie. RT and SHB explained that the City does have a continuing education program that is implemented by the collection crews. This includes leaving materials curbside that do not comply with collection by-laws and informing of the non-compliance issue via a flyer. 	Info.
	<ul style="list-style-type: none"> LG also noted that residents in her area violate the two bag/container limit and the waste is collected without tags. RT noted that every effort is made to enforce collection by-laws but there are several areas in the community where collection crews have difficulty determining the number of residential units that setout the waste and hence they collect it despite the fact it may not comply with set-out limits. 	Info.
	<ul style="list-style-type: none"> SHB noted the City completes periodic checks of common illegal dumping sites and actively investigates illegal dumping activities. City staff makes every effort to identify perpetrators. 	Info.
	<ul style="list-style-type: none"> RT also noted that the Ministry of Environment has increased enforcement related to commercial/industrial diversion efforts. 	Info.
	<ul style="list-style-type: none"> Tim Horton's cups can be found littered along streets and should be addressed. To their credit Tim Horton's has implemented recycling programs in their establishments and they participate and sponsor in community clean-up events. It was however acknowledged that more can be done particularly related to public education (eg. cups are recyclable). 	Info.
	<ul style="list-style-type: none"> Many items are disposed of that could be re-used and the city should develop a re-use centre. SHB explained that regulations exist that prohibit municipalities from scavenging. Habitat for Humanity does however operate a re-use centre within the City. It may however benefit from increased public awareness through appropriate advertising. 	Info.

Action By

- Other items that should be recycled or banned from use include styrofoam cups and paper plates. The paper plates are currently recyclable but styrofoam is not. It was noted that the City is currently taking a proactive approach with plastic bags and similar approaches are possible with other items in the future.
- RT also noted that the WDO is considering ways and means of recovering some of the disposal costs for packaging materials that are not recyclable. Currently companies contribute funds to offset the costs of recycling programs if their packaging is recyclable but companies that utilize disposable packaging materials do not incur similar costs for disposal.
- The management of disposable diapers also needs to be addressed. RT noted that diapers are composted in some larger municipalities.

Info.

Info.

Info.

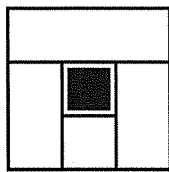
END OF MEETING REPORT

Submitted By:

R. Talvitie, P.Eng.
Project Manager

cc: all inattendance
R. Roy
K. Kolli

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TSH
engineers
architects
planners

**METIS NATION OF ONTARIO
CONSULTATION STRATEGY
MEETING REPORT**

Project: City of Sault Ste. Marie Waste Disposal EA

TSH No. 60395

Meeting Date: March 26, 2007

Meeting Time: 1:30 pm

Report Date: April 2, 2007

Recorder: R. Talvitie

Page 1 of 3

Note: If any of the contents of this meeting report differ in any respect from your own recollection of the points discussed or decisions reached, please notify us immediately. In the meantime, we will proceed in accordance with the understanding described herein.

LOCATION: TSH Boardroom

PRESENT: Brent McHale, Metis Nation of Ontario
Susan Hamilton-Beach, City SSM
Rick Talvitie, TSH

PURPOSE: To provide an update on the project progress and to discuss strategies for consulting with Metis' members.

Action By

1.0 Introduction and Background

RT provided an overview of the project background.

- Met with Metis Nation of Ontario in the spring of 2005 to discuss the Terms of Reference ("ToR"). The ToR provides the framework for guiding the implementation of the Environmental Assessment ("EA"). Info.
- City has secured the services of a consultant team to undertake the EA (ie: TSH and Dillon). Info.
- Approximately 11 years of disposal capacity remaining at the Fifth Line landfill. Info.
- City has been very aggressive in enhancing waste diversion through new and enhanced programs. Info.
- Currently diverting approx. 35% of the residential waste stream in comparison to 8% in 2000. Info.
- Residential diversion programs include: Info.
 - Blue/Yellow box (residential, multi-residential and schools);
 - Leaf and yard waste collection bi-weekly and backyard composters;
 - Household Special Waste Facility for hazardous wastes;
 - Reduced set-out limits (reduced from 6 bags/containers to two bags/containers per household);
 - Partial Pay-as-you-throw program (ie: \$2 per bag/container beyond 2 bag/container limit);

Action By

	<ul style="list-style-type: none"> ○ Increased gate and tipping fees at the landfill; ○ Segregation of waste at the landfill; and ○ Special events coordinated by Clean North (Christmas trees and WEEE). 	
	<ul style="list-style-type: none"> • IC&I diversion rate is also increasing significantly through enhanced MOE enforcement. 	Info.
2.0	Alternatives To	
	RT explained that the project team is currently looking at “alternatives to” the undertaking (different ways of managing the waste stream including diversion and disposal).	Info.
	The “alternatives to” being considered include: <ul style="list-style-type: none"> • Increased Waste Diversion • Incineration and High Heat Processes • Landfill • Export of Waste Outside the Service Area • Do nothing 	Info.
	A series of evaluation criteria were developed and presented in the ToR which are intended to be used to evaluate the “Alternatives”. A draft “Alternatives To” Report will be released in advance of the public input sessions and will document the preliminary evaluation completed.	Info.
	RT explained that the City believes it is important to table issues and concerns regarding the alternatives and the evaluation as early in the process as possible. This can be effectively achieved by consulting with potentially impacted communities and stakeholders early in the process.	Info.
	Input is specifically being solicited regarding the alternatives being considered, the evaluation criteria and the relative importance of the criteria with the intent of establishing a preferred “Alternative To”.	Info.
	RT explained that an invitation will be extended to neighbouring First Nation communities, the general public and relevant agencies to participate in the Public Input Sessions. As a minimum, some representation from the Metis Nation of Ontario would be appreciated. BM suggested that he and the President of the Metis Nation of Ontario attend. TSH to forward a Newsletter with particulars.	MNO / TSH
	TSH to investigate advertising the event in the Metis Nation of Ontario newsletter and posting to their website.	TSH
	BM also suggested that TSH contact the Missanabie Cree (Queen Street).	TSH

Action By

BM noted that service in the outlying areas and leachate management are issues that should be addressed in the EA.

Info.

RT responded that a study has recently been initiated to address waste management in the Sault North Planning Area. Walker Engineering is the Lead Consultant.

Info.

Leachate management will be addressed in the study process.

Info.

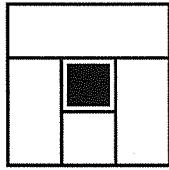
END OF MEETING REPORT

Submitted By:

R. Talvitie, P.Eng.
Project Manager

cc: all inattendance
R. Roy
K. Kolli

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engineers
architects
planners

**GARDEN RIVER FIRST NATIONS
CONSULTATION STRATEGY
MEETING REPORT**

Project: City of Sault Ste. Marie Waste Disposal EA

TSH No. 60395

Meeting Date: April 3, 2007

Meeting Time: 7:30 pm

Report Date: April 12, 2007

Recorder: R. Talvitie

Page 1 of 4

Note: If any of the contents of this meeting report differ in any respect from your own recollection of the points discussed or decisions reached, please notify us immediately. In the meantime, we will proceed in accordance with the understanding described herein.

LOCATION: Garden River First Nation Community Hall

PRESENT: Garden River First Nation Band Council Members
Several Members of the Public
Susan Hamilton-Beach, City SSM
Rick Talvitie, TSH

PURPOSE: To provide an update on the project progress and to discuss strategies for consulting with Garden River First Nation members.

Action By

1.0 Introduction and Background

RT provided an overview of the project background.

- Met with Croline Barry of Garden River First Nation (GRFN) in the spring of 2005 to discuss the Terms of Reference ("ToR"). The ToR provides the framework for guiding the implementation of the Environmental Assessment ("EA"). Info.
- City has secured the services of a consultant team to undertake the EA (ie: TSH and Dillon). Info.
- Approximately 11 years of disposal capacity remaining at the Fifth Line landfill. Info.
- City has been very aggressive in enhancing waste diversion through new and enhanced programs. Info.
- Currently diverting approx. 35% of the residential waste stream in comparison to 8% in 2000. Info.
- Residential diversion programs include: Info.
 - Blue/Yellow box (residential, multi-residential and schools);
 - Leaf and yard waste collection bi-weekly and backyard composters;

Action By

- Household Special Waste Facility for hazardous wastes;
- Reduced set-out limits (reduced from 6 bags/containers to two bags/containers per household);
- Partial Pay-as-you-throw program (ie: \$2 per bag/container beyond 2 bag/container limit);
- Increased gate and tipping fees at the landfill;
- Segregation of waste at the landfill; and
- Special events coordinated by Clean North (Christmas trees and WEEE).
- IC&I diversion rate is also increasing significantly through enhanced MOE enforcement.

Info.

	Action By
2.0 Alternatives To	
RT explained that the project team is currently looking at “alternatives to” the undertaking (different ways of managing the waste stream including diversion and disposal).	Info.
The “alternatives to” being considered include: <ul style="list-style-type: none">• Increased Waste Diversion• Incineration and High Heat Processes• Landfill• Export of Waste Outside the Service Area• Do nothing	Info.
A series of evaluation criteria were developed and presented in the ToR which are intended to be used to evaluate the “Alternatives”. A draft “Alternatives To” Report will be released in advance of the public input sessions and will document the preliminary evaluation completed.	Info.
RT explained that the City believes it is important to table issues and concerns regarding the alternatives and the evaluation as early in the process as possible. This can be effectively achieved by consulting with potentially impacted communities and stakeholders early in the process.	Info.
Input is specifically being solicited regarding the alternatives being considered, the evaluation criteria and the relative importance of the criteria with the intent of establishing a preferred “Alternative To”.	Info.
RT explained that the City/TSH would like input on the approach that is best suited to obtaining input from GRFN members during the EA process. RT suggested that it may be advantageous to conduct a distinct public input session in GRFN to solicit input from First Nation members.	Info.
Chief Lyle Sayers noted that the current Band Council meeting is open to the general public but there is limited attendance. He indicated that GRFN would assist the City in accommodating a public input session within GRFN but cautioned that the attendance would likely be very limited.	Info.
RT noted that another alternative would be to have some representation from GRFN at a public input session to be conducted in Sault Ste. Marie.	Info.
Chief Lyle Sayers noted that the City could extend an invitation to GRFN and they would consider sending some representation. He also noted that they could not commit.	Info.

Action By

3.0 Questions

The following questions were raised by Councilors and the responses provided are noted.

- Has the City approached GRFN to solicit their interest in participating in the Household Special Waste Facility? SHB and RT noted that the City's Waste Diversion Supervisor has contacted many area Municipalities and First Nations but could not confirm whether GRFN had been contacted. **(Note: following the meeting Randy Roy the City's Waste Diversion Supervisor confirmed that GRFN had been contacted. He agreed to make contact again).**
Info.
R. Roy
- Can GRFN take advantage of the City's recycling programs? RT explained that the City contracts the collection and processing of the recycling materials to a private contractor. It was also noted that there are several contractors that would likely be willing to provide pricing to GRFN for collection and processing of recyclables in their community.
Info.
- GRFN is located downstream of the Root River which is situated adjacent to the landfill. Are there appropriate water quality monitoring programs in place to safe guard the water quality? RT and SHB explained that a leachate collection system is in place on the site. The collected leachate is pumped to the City's WPCP and treated prior to discharge. In addition there is an extensive network of ground water monitoring wells within and adjacent to the landfill site. Surface water quality is also monitored adjacent to, upstream of and downstream of the site. The surface water monitoring includes analysis of impacts to the benthic invertebrate (bottom dwelling) community. An extensive monitoring report is prepared each year which documents the findings of the sampling and analysis programs. The results are compared to compliance criteria and action is taken to address any non-compliances. A copy of the 2006 Monitoring Report is attached hereto.
Info.

Action By

- How are tires managed by the City of Sault Ste. Marie? The City of Sault Ste. Marie accepts non-commercial tires at the landfill site for a fee. The tires are stockpiled and a tire recycling contractor removes the stockpiled tires periodically. The City has recently engaged the services of a new Contractor.

Info.

END OF MEETING REPORT

Submitted By:

R. Talvitie, P.Eng.
Project Manager

cc: C. Barry, Garden River First Nation
S. Hamilton-Beach, City of SSM
R. Roy, City of SSM
K. Kolli, Dillon Consulting

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Talvitie, Rick

From: Rick Talvitie
Sent: May 17, 2007 10:56 AM
To: 'councilsecretary@batchewana.ca'
Cc: 'chiefdeansayers@batchewana.ca'; 'Susan Hamilton Beach'; 'Kolli, Karla'
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Sandra,

I just wanted to follow-up to confirm our discussion this morning.

The City is anxious to proceed with our first public input sessions relating to the Environmental Assessment being undertaken to address diminishing waste disposal capacity at the City's landfill. It is my understanding that you had an opportunity this morning to discuss this project with the Chief and you will be reviewing it in greater detail very soon.

We will be undertaking the first public input sessions in June before the busy summer vacation period and would like to include a session within Batchewana First Nation.

The Public Input session could be tailored to your specific requirements. We could either conduct an informal public open house to allow community members to drop by to ask questions or make comments on their own schedule or alternatively we could conduct a "meeting", make a presentation and develop focus groups to discuss specific components of the project.

Again we are prepared to work with you to develop a suitable consultation approach but we have to be cognizant of the project schedule. We would greatly appreciate your input on this matter within the next week.

We look forward to hearing from you.

Thank you in advance.

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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Solid Waste Disposal Environmental Assessment PUBLIC INPUT SESSION No. 1

Sault Ste. Marie Conducts First Public Input Session!

Are you interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to dispose of waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve? If so, we encourage you to attend this public input session!

The City of Sault Ste. Marie is holding a public input session for the Solid Waste Disposal Environmental Assessment to discuss both diversion and disposal of solid waste.

We will update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches that are being considered to dispose of the residual solid waste. A principle objective of the session is to confirm the alternatives that are being considered (ie: increased 3R's, landfill, incineration and high heat processes, export and do-nothing) and to discuss the criteria that will be used to compare the alternatives.

Information on waste quantities, the alternatives and the evaluation criteria can be found in two working papers prepared for this session titled "Waste Quantity Projections and Existing Environment Profile" and "Alternatives To the Undertaking". These working papers can be downloaded from the City of Sault Ste. Marie website (<http://www.cityssm.on.ca/>) or viewed at the locations noted below commencing on June 19th.

You're Invited!

Date: Tuesday June 26, 2007

Time: 6:00 pm to 9:00 pm

**Location: Civic Centre – Russ
Ramsay Room**

Please join us!

TSH Engineers Architects and Planners	523 Wellington Street
Civic Centre Engineering and Planning	99 Foster Drive, 5 th Floor
Public Works and Transportation	128 Sackville Road
Main Library	50 East Street
Churchill Branch Library	301 Lake Street
Korah Branch Library	496 Second Line
Township of Prince Municipal Office	3042 Second Line West
Batchewana First Nation	236 Frontenac Street
Garden River First Nation	7 Shingwauk Street
Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
Totten Sims Hubicki (TSH)
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rtalvitie@tsh.ca

Mrs. Susan Hamilton-Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
99 Foster Drive,
Sault Ste. Marie, Ontario
P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

Information pertaining to this session is available on the City of Sault Ste. Marie website at: <http://www.cityssm.on.ca/>. Hardcopies can also be obtained by contacting TSH at 705-942-2612.

We look forward to seeing you on June 26th!



June 13, 2007

Ann Mitchell, Administrator
Township of Prince
3042 Second Line West
Sault Ste. Marie, Ontario
P6A 6K4

Dear Ms. Mitchell:

**Re: City of Sault Ste. Marie
Solid Waste Management EA
TSH Project No. 60395**

The City of Sault Ste. Marie is proceeding with the first public input session for the Solid Waste Management Plan Environmental Assessment. Details pertaining to the session are included in the attached Notice.

We will be advertising this Public Input session through various forms within the City of Sault Ste. Marie and adjacent communities. We are encouraging direct participation of Prince Township residents. We have enclosed 10 copies of the Notice for posting at prominent locations within your community.

We have also included a digital copy for posting on your website.

In the event that you feel there are other effective means of notifying members of your community of this session please let us know.

We are hopeful that there will be broad representation of various interest groups and communities at the event.

We look forward to seeing members from your community at our event.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

c.c. Susan Hamilton-Beach
Karla Kolli

June 13, 2007

Lesley Gagnon
Missanabie Cree
559 Queen Street East
Sault Ste. Marie, Ontario
P6A 2A3

Dear Ms. Gagnon:

**Re: City of Sault Ste. Marie
Solid Waste Management EA
TSH Project No. 60395**

The City of Sault Ste. Marie is proceeding with the first public input session for the Solid Waste Management Plan Environmental Assessment. Details pertaining to the session are included in the attached Notice.

We will be advertising this Public Input session through various forms within the City of Sault Ste. Marie and adjacent communities. We are encouraging direct participation of Missanabie Cree First Nation people residing in and around Sault Ste. Marie. We have enclosed 10 copies of the Notice for posting at prominent locations at your discretion.

We have also included a digital copy for posting on your website.

In the event that you feel there are other effective means of notifying members of your community of this session we would be pleased to work with you to reach as many individuals as possible.

We are hopeful that there will be broad representation of various interest groups and communities at the event.

We look forward to seeing Missanabie Cree First Nation people at our event.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

c.c. Susan Hamilton-Beach
Karla Kolli

June 11, 2007

Chief Lyle Sayers
Garden River First Nation
7 Shingwauk Street
Sault Ste. Marie, Ontario
P6A 5K9

Dear Chief Sayers:

**Re: City of Sault Ste. Marie
Solid Waste Management EA
TSH Project No. 60395**

The City of Sault Ste. Marie is proceeding with the first public input session for the Solid Waste Management Plan Environmental Assessment. Details pertaining to the session are included in the attached Notice.

We will be advertising this Public Input session through various forms within the City of Sault Ste. Marie and adjacent communities. We are encouraging direct participation of Garden River First Nation members. We have enclosed 10 copies of the Notice for posting at prominent locations within your community.

We have also included a digital copy for posting on your website.

In the event that you feel there are other effective means of notifying members of your community of this session please let us know.

We are hopeful that there will be broad representation of various interest groups and communities at the event.

We would also like to reiterate that we would like to conduct a separate public input session within your community. In this regard, could you please provide us with a suitable date, time and location for an event in early July, 2007.

We look forward to seeing members from your community at our event and look forward to coordinating a separate event in your community.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

c.c. Caroline Barry
Susan Hamilton-Beach
Karla Kolli

June 11, 2007

Chief Dean Sayers
Batchewana First Nation
236 Frontenac Street
Sault Ste. Marie, Ontario
P6A 5K9

Dear Chief Sayers:

**Re: City of Sault Ste. Marie
Solid Waste Management EA
TSH Project No. 60395**

The City of Sault Ste. Marie is proceeding with the first public input session for the Solid Waste Management Plan Environmental Assessment. Details pertaining to the session are included in the attached Notice.

We will be advertising this Public Input session through various forms within the City of Sault Ste. Marie and adjacent communities. We are encouraging direct participation of Batchewana First Nation members. We have enclosed 10 copies of the Notice for posting at prominent locations within your community.

We have also included a digital copy for posting on your website.

In the event that you feel there are other effective means of notifying members of your community of this session please let us know.

We are hopeful that there will be broad representation of various interest groups and communities at the event.

We would also like to reiterate that we would like to conduct a separate public input session within your community. In this regard, could you please provide us with a suitable date, time and location for an event in early July, 2007.

We look forward to seeing members from your community at our event and look forward to coordinating a separate event in your community.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

c.c. Susan Hamilton-Beach
Karla Kolli

June 11, 2007

Metis Nation of Ontario

Dear Michelle:

**Re: City of Sault Ste. Marie
Solid Waste Management EA
TSH Project No. 60395**

The City of Sault Ste. Marie is proceeding with the first public input session for the Solid Waste Management Plan Environmental Assessment. Details pertaining to the session are included in the attached Notice.

We will be advertising this Public Input session through various forms within the City of Sault Ste. Marie and adjacent communities. We are encouraging direct participation of Métis people residing in and around Sault Ste. Marie. We have enclosed 10 copies of the Notice for posting at prominent locations at your discretion.

We have also included a digital copy for posting on your website.

In the event that you feel there are other effective means of notifying members of your community of this session we would be pleased to work with you to reach as many individuals as possible.

We are hopeful that there will be broad representation of various interest groups and communities at the event.

We look forward to seeing Métis people at our event.

Yours very truly,

R. Talvitie, P. Eng.
Project Manager

c.c. Brent McHale
Susan Hamilton-Beach
Karla Kolli

Talvitie, Rick

From: Rick Talvitie
Sent: June 15, 2007 12:24 PM
To: 'annmitchell@twp.prince.on.ca'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Ann,

I am just following up on the Notice of the Public input session that was couriered to you earlier this week. The City is undertaking a public input session on June 26th (details are provided in the Notices provided to you). The general public within Sault Ste. Marie and adjacent communities are encouraged to attend. We are hopeful that you will post the notices in prominent locations including your website (ie: digital copy was also provided).

Let me know if there is anything we can do to further assist you in notifying your residents.

Thank you.

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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Talvitie, Rick

From: Rick Talvitie
Sent: June 15, 2007 12:09 PM
To: 'micheled@metisnation.org'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Michele,

I am just following up on the Notice of the Public input session that was delivered to you yesterday. The City is undertaking a public input session on June 26th (details are provided in the Notices provided to you). The general public within Sault Ste. Marie and adjacent communities are encouraged to attend. We are hopeful that you will post the notices in prominent locations including your website (ie: digital copy was also provided).

Let me know if there is anything we can do to further assist you in notifying your members.

Thank you.

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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Talvitie, Rick

From: Rick Talvitie
Sent: June 15, 2007 12:08 PM
To: 'lgagnon@missanabiecree.com'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Lesley,

I am just following up on the Notice of the Public input session that was delivered to you yesterday. The City is undertaking a public input session on June 26th (details are provided in the Notices provided to you). The general public within Sault Ste. Marie and adjacent communities are encouraged to attend. We are hopeful that you will post the notices in prominent locations including your website (ie: digital copy was also provided).

Let me know if there is anything we can do to further assist you in notifying your members.

Thank you.

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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Talvitie, Rick

From: Rick Talvitie
Sent: June 15, 2007 10:36 AM
To: 'cbarry@gardenriver.org'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal Environmental Assessment

Good Morning Caroline,

I am just following up on the Notice of the Public input session that was delivered to the Chief yesterday. The City is undertaking a public input session on June 26th (details are provided in the Notices provided to you). The general public within Sault Ste. Marie and adjacent communities are encouraged to attend. We are hopeful that you will post the notices in prominent locations in your community including your website (ie: digital copy was also provided).

I also wanted to reiterate that we would like to conduct a separate event in your community in the month of July/07. It is important that we continue to move forward with this project and ask that you provide us with a suggested date and time for an event.

Thank you and we look forward to working with you.

Regards,

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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Talvitie, Rick

From: Rick Talvitie
Sent: June 15, 2007 10:32 AM
To: 'chiefdeansayers@batchewana.ca'; 'councilsecretary@batchewana.ca'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal EA

Good Morning Chief Sayers,

I am just following up on the Notice of the Public input session that was delivered to you yesterday. The City is undertaking a public input session on June 26th (details are provided in the Notices provided to you). The general public within Sault Ste. Marie and adjacent communities are encouraged to attend. We are hopeful that you will post the notices in prominent locations in your community including your website (ie: digital copy was also provided).

I also wanted to reiterate that we would like to conduct a separate event in your community in the month of July/07. It is important that we continue to move forward with this project and ask that you provide us with a suggested date and time for an event.

Thank you and we look forward to working with you.

Regards,

Rick Talvitie, P.Eng.
Branch Manager

TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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Talvitie, Rick

From: Rick Talvitie
Sent: June 15, 2007 10:32 AM
To: 'chiefdeansayers@batchewana.ca'; 'councilsecretary@batchewana.ca'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal EA

Good Morning Chief Sayers,

I am just following up on the Notice of the Public input session that was delivered to you yesterday. The City is undertaking a public input session on June 26th (details are provided in the Notices provided to you). The general public within Sault Ste. Marie and adjacent communities are encouraged to attend. We are hopeful that you will post the notices in prominent locations in your community including your website (ie: digital copy was also provided).

I also wanted to reiterate that we would like to conduct a separate event in your community in the month of July/07. It is important that we continue to move forward with this project and ask that you provide us with a suggested date and time for an event.

Thank you and we look forward to working with you.

Regards,

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Talvitie, Rick

From: Rick Talvitie
Sent: June 27, 2007 11:39 AM
To: 'libby-b@hotmail.ca'; 'cbarry@gardenriver.org'
Cc: 'sayersl@gardenriver.org'; 'Susan Hamilton Beach'; 'Kolli, Karla'
Subject: City of Sault Ste. Marie Waste Disposal EA
Attachments: final jun 26 public input session.pdf

Hi, Libby

It was a pleasure discussing the project with you at last night's Public Input Session. We appreciate that you took the time to attend. As I noted at last night's meeting the City is committed to conducting a separate consultation event in your community. It is however important we conduct an event as soon as practicable given our schedule constraints.

We would like to schedule a time for an "open house" event at the community hall. With an "open house" format individuals would be invited to attend at anytime over a 2 to 3 hour timeframe. We would post displays on the wall and provide information to individuals as they arrived. We would encourage comments, questions and feedback.

Please confirm that this approach is acceptable and advise of a suitable date preferably during the week of July 16th or July 23rd. We would suggest a timeframe from 4:00 pm or 5:00 pm to 7:00 pm but are open to other times as appropriate.

We look forward to obtaining input from your community.

We have also attached a copy of the slides from last night's presentation for dissemination to Band Council. Given that this project will span a couple of years we suggest that you make the relevant materials available to your members. This can either be done by uploading the information directly to your website or providing a link to the City of SSM website. I will provide you with a suitable link to the EA information on the City's website in the coming days.

Regards,

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
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Talvitie, Rick

From: Rick Talvitie
Sent: June 27, 2007 11:13 AM
To: 'alidstone@batchewana.ca'
Cc: 'chiefdeansayers@batchewana.ca'; 'Susan Hamilton Beach'; 'Kolli, Karla'
Subject: City of Sault Ste. Marie Waste Disposal EA
Attachments: final jun 26 public input session.pdf

Hi Agnes,

It was a pleasure discussing the project with you at last night's Public Input Session. We appreciate that you took the time to attend. As I noted at last night's meeting the City is committed to conducting a separate consultation event in your community. It is however important we conduct an event as soon as practicable given our schedule constraints.

As discussed we will meet with you in two weeks time at which time we will discuss the specific format for consultation in your community (eg. workshop or open house or some other format) and we will confirm the date for the event. As I noted we would like to conduct the event in the next 4-6 weeks at the latest.

Please confirm which of the following meeting dates/times works best for you.

July 9 at 1:30 pm
July 10 at 1:30 pm
July 11 at 1:30 pm

We look forward to meeting with you and obtaining input from your community.

We have also attached a copy of the slides from last night's presentation for dissemination to Band Council. Given that this project will span a couple of years we suggest that you make the relevant materials available to your members. This can either be done by uploading the information directly to your website or providing a link to the City of SSM website. I will provide you with a suitable link to the EA information on the City's website in the coming days.

Regards,

Rick Talvitie, P.Eng.
Branch Manager
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Talvitie, Rick

From: Rick Talvitie
Sent: July 3, 2007 10:31 AM
To: 'Miranda Lesperance'
Cc: s.hamiltonbeach@cityssm.on.ca; 'Kolli, Karla'
Subject: RE: SAULT STE. MARIE SOLID WASTE DISPOSAL EA

Miranda,

Thank you for the various information sources that you provided.

At the onset of this project we arranged meetings with Batchewana First Nation, Garden River First Nation, Métis Nation of Ontario and the Missinabie Cree. We established communication with each of these communities/organizations early in the process and continue to maintain an open dialogue with them as the study progresses. We are also hoping to arrange separate consultation events in Batchewana and Garden River First Nations later this month.

We will continue to inform you and the above noted communities/organizations of further opportunities for input as the study progresses.

Regards,

Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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-----Original Message-----

From: Miranda Lesperance [mailto:lesperancem@inac-ainc.gc.ca]
Sent: June 29, 2007 12:01 PM
To: Rick Talvitie
Cc: s.hamiltonbeach@cityssm.on.ca
Subject: SAULT STE. MARIE SOLID WASTE DISPOSAL EA

Good Morning,

Please find attached Indian and Northern Affairs Canada's response your notice of June 2007 regarding the Sault Ste. Marie Solid Waste Disposal EA.

Should you require a signed copy of the response, please do not hesitate to contact me.

Thank you for the opportunity to comment on this project.

Sincerely,

Miranda Lesperance
Environment Officer
Environment Unit
INAC - Ontario Region
25 St. Clair Ave E 8th Floor
Toronto, ON M4T 1M2
Phone (416) 973-5899
Fax (416) 954-4328

Talvitie, Rick

From: Rick Talvitie
Sent: July 6, 2007 10:49 AM
To: 'alidstone@batchewana.ca'
Cc: 'Susan Hamilton Beach'; 'Kolli, Karla'
Subject: City of Sault Ste. Marie Waste Disposal EA
Attachments: final jun 26 public input session.pdf

Hi Agnes,

I tried to call you on Friday to confirm a meeting date/time but you were away from the office. I thought I would resend this message and request that you get back to me on Monday July 9th – Have a great weekend and I will talk to you on Monday.

It was a pleasure discussing the project with you at last night's Public Input Session. We appreciate that you took the time to attend. As I noted at last night's meeting the City is committed to conducting a separate consultation event in your community. It is however important we conduct an event as soon as practicable given our schedule constraints.

As discussed we will meet with you in two weeks time at which time we will discuss the specific format for consultation in your community (eg. workshop or open house or some other format) and we will confirm the date for the event. As I noted we would like to conduct the event in the next 4-6 weeks at the latest.

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Talvitie, Rick

From: Rick Talvitie
Sent: July 6, 2007 11:33 AM
To: 'libby-b@hotmail.com'
Subject: FW: City of Sault Ste. Marie Waste Disposal EA
Attachments: final jun 26 public input session.pdf

Hi Libby,

I see I had the wrong email address when I sent this out last week. Caroline and Chief Sayers likely received this email last week.

Can you provide me with a suitable date and time for a Public O[pen House in Garden River First Nation.

Thks.

Rick Talvitie, P.Eng.
Branch Manager

TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642

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From: Rick Talvitie
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To: 'libby-b@hotmail.ca'; 'cbarry@gardenriver.org'
Cc: 'sayersl@gardenriver.org'; 'Susan Hamilton Beach'; 'Kolli, Karla'
Subject: City of Sault Ste. Marie Waste Disposal EA

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Regards,

Talvitie, Rick

From: Rick Talvitie
Sent: July 11, 2007 9:25 AM
To: 'Lindsay, Julius (ORC)'
Cc: 's.hamiltonbeach@cityssm.on.ca'; 'kkolli@dillon.ca'
Subject: RE: Solid Waste Disposal Environmental Assessment

Hi Julius,

Thank you for taking the time to provide input. We will continue to keep you apprised throughout the process through periodic notices and invitations to public consultation events. To date we have been looking at "Alternatives To" (ie: different ways of managing solid waste) at a generic level. In the next phase of the process we will begin looking at potential sites to facilitate the preferred disposal alternative(s). We will continue to keep you apprised regardless of the sites that are subject to more intensive study. In the event however that one or more sites involve ORC managed properties we will contact ORC directly and arrange a meeting as early as possible in the study process.

Thank you also for providing information regarding ORC's Class EA process. In the event that one or more of the triggers are satisfied we will ensure our process requirements are integrated with your process requirements.

Thanks again for your letter.

Regards,

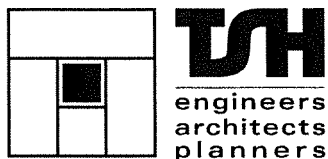
Rick Talvitie, P.Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
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From: Lindsay, Julius (ORC) [mailto:Julius.Lindsay@orc.gov.on.ca]
Sent: July 10, 2007 4:31 PM
To: Rick Talvitie; s.hamiltonbeach@cityssm.on.ca
Subject: Solid Waste Disposal Environmental Assessment

Please See attached.

Julius Lindsay
Reporting Specialist
Professional Services
Ontario Realty Corporation



TELECOM RECORD SHEET

DATE:	July 19, 2007	PROJECT NO.:	60395
RECORDED BY:	Rick Talvitie	ORIGINATOR OF CALL:	

WITH: Caroline Barry

PHONE NO.:

REPRESENTING: Garden River First Nation

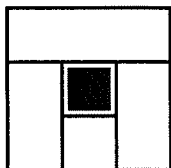
REGARDING: GRFN Public Open House

DISCUSSION:

- Will issue an email advising we can proceed with an open house – the Chief will be copied and will presumably advise if any concerns.
- Suggested methods to advertise include Newsletter (July 20th cutoff date) – contact Irene Gray – 946-3933, Community Center sign, contact Peggy Belleau – 946-2614 and postings in the Community. The Sault Star is also an option.
- The next newsletter will be issued in early August. RT suggested the open house be conducted shortly after the publication of the next newsletter.
- TSH to confirm date and time for open house.

ACTION:

Distribution: Susan Hamilton Beach
Karla Kolli



TSH
engineers
architects
planners

**MEETING WITH BATCHEWANA FIRST
NATION – JULY 31, 2007**

Project: City of Sault Ste. Marie
Waste Disposal EA

TSH No. 60395
Meeting Date: July 31, 2007
Meeting Time: 10:00 a.m.
Report Date: July 31, 2007
Recorder: R. Talvitie
Page 1 of 2

Note: If any of the contents of this meeting report differ in any respect from your own recollection of the points discussed or decisions reached, please notify us immediately. In the meantime, we will proceed in accordance with the understanding described herein.

LOCATION: Batchewana First Nation Office
PRESENT: Chief Dean Sayers, Batchewana First Nation
Agnes Lidstone, Batchewana First Nation
Susan Hamilton Beach, City of Sault Ste. Marie Engineering
Rick Talvitie, TSH

PURPOSE: To discuss project progress and consultation strategies.

- 1.0** RT provide an overview of the work completed since the last meeting was conducted on March 19, 2007. The project team has compiled two "Working Draft" reports entitled, "Waste Quantity Projections and Environment Profile" and "Alternatives to the Undertaking". Copies of the working drafts were provided to Agnes Lidstone at the City of Sault Ste. Marie public input session and additional copies were left at the Band office for review by interested individuals. Copies of the Notice advertising the Garden River Open House and the Public Participation booklet were also left for reference.
- 2.0** RT provided a brief overview of the contents of both reports and highlighted the alternative waste management strategies and the criteria being used to evaluate them. Public input is currently being solicited on these alternatives. A public input session was conducted in the City of Sault Ste. Marie and an open house is planned in Garden River First Nation on August 9th. The intent of the sessions is to identify additional alternatives that should be considered, additional evaluation criteria and weightings for the criteria.
- 3.0** Chief Sayers noted that their Community has an inherent responsibility to look after the environment and in particular the lands and waterways that are included in their traditional territory as defined in the 1850 Robinson Huron Treaty. He also noted that any development within their traditional territory would require the endorsement of Batchewana First Nation. A map illustrating the land mass that is the subject of the treaty was reviewed. The treaty lands cover a significant area from the St. Mary's River northerly well beyond the current study area.

Action By
Info.

Info.

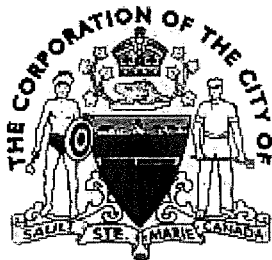
Info.

		Action By
4.0	Chief Sayers also expressed an interest in partnering with the City and cited an example of a possible partnership with Brookfield Power north of the City. He also noted that they have discussed waste management issues with Oneida of the Thames Reserve which is near the Greenlane landfill.	Info.
5.0	SH provided an overview of the Enquest Power demonstration project which is currently in its infancy. The project is being undertaken independently by a company and their hope is to demonstrate the capabilities of their steam reformation process (ie: covert waste to a syngas, water and char). The waste is transformed under high heat in the absence of oxygen. Another pilot scale project is also underway in Ottawa.	Info.
6.0	AL noted that she recalls discussing incineration and high heat processes with a City official a number of years ago and was under the impression that it was not being considered.	Info.
7.0	RT explained that in the current phase of the EA the study team is reviewing and evaluating all practical solutions or technologies with due consideration of net environmental effects and costs. Incineration and high heat processes are included in the evaluation.	Info.
8.0	RT explained that public input has been obtained in Sault Ste. Marie and will be obtained in Garden River. The study team is working towards identifying a preferred "alternative to" by September, 2007. Input from Batchewana First Nation is an important component in the process and suggested that the City/TSH conduct an open house to solicit input/feedback.	Info.
9.0	Chief Sayers outlined a different approach to consultation as follows. A briefing note will be prepared by AL outlining the project status and the input required. The project will be included on the August 21, 2007 Band Council agenda (public forum). Subject to Band Council approval Batchewana FN will proceed with a community brainstorming session. Through this session Batchewana FN will identify a preferred alternative from their perspective together with the rationale for the selection. This information will be forwarded to the City by the end of September, 2007. SH noted that City/consultant staff would be pleased to attend the Band Council meeting or act as a resource for any follow-up consultation activities. Chief Sayers noted that with the material provided representation is not required.	Batchewana First Nation
10.0	RT noted that once their input is received the project team will be reviewing all of the input received and will identify a preferred alternative with due consideration of all of the input. RT noted that this can be challenging given the differing viewpoints that are often advanced.	TSH / Dillon / City

End of Meeting Report
Prepared by:

R. Talvitie, P. Eng.
Project Manager

c.c. All in Attendance
K. Kolli



City of Sault Ste. Marie Solid Waste Disposal Environmental Assessment PUBLIC OPEN HOUSE No. 1

Sault Ste. Marie Conducts First Public Open House in Garden River!

Are you interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to dispose of waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve? If so, we encourage you to attend this public open house!

The City of Sault Ste. Marie is holding a public open house for the Solid Waste Disposal Environmental Assessment to discuss both diversion and disposal of solid waste.

We will update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches that are being considered to dispose of the residual solid waste. A principle objective of the session is to confirm the alternatives that are being considered (ie: increased 3R's, landfill, incineration and high heat processes, export and do-nothing) and to discuss the criteria that will be used to compare the alternatives.

Information on waste quantities, the alternatives and the evaluation criteria can be found in two working papers prepared for this session titled "Waste Quantity Projections and Existing Environment Profile" and "Alternatives To the Undertaking". These working papers can be downloaded from the City of Sault Ste. Marie website (http://www.cityssm.on.ca/Open_Page.aspx?ID=639&deptid=1) or viewed at the Garden River First Nation Band Office (7 Shingwauk Street).

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
Totten Sims Hubicki (TSH)
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rtalvitie@tsh.ca

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
99 Foster Drive,
Sault Ste. Marie, Ontario
P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

Further information pertaining to the open house is available on the City of Sault Ste. Marie website at: http://www.cityssm.on.ca/Open_Page.aspx?ID=639&deptid=1. Hardcopies of the posted information can also be obtained by contacting TSH at 705-942-2612.

We look forward to seeing you on August 9th!



Talvitie, Rick

From: Rick Talvitie
Sent: August 13, 2007 8:04 AM
To: 'chiefdeansayers@batchewana.ca'; 'alidstone@batchewana.ca'
Cc: 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie Waste Disposal Environmental Assessment
Attachments: 60395 jul 31 MTG batchewana fn.pdf

Chief Sayers/Agnes

Thank you both for meeting with Susan and I on July 31, 2007. I have attached a copy of a meeting report for your information and records.

As discussed during our meeting it is our understanding that this matter will be addressed at your August 21, 2007 Band Council meeting and input regarding the alternatives and the evaluation will be provided to the City/TSH in about 4 weeks. As you know this timeline is important to the overall project schedule and we look forward to receiving your input. The City will be selecting a preferred "alternative to" by the end of September.


For your information we conducted an open house in Garden River on August 9th and we would be pleased to conduct a similar session in Batchewana's Rankin Reserve. Alternatively we are available as a resource to assist you in your consultations. Please contact Susan or myself at your leisure.

We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

Website: www.tsh.ca

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Talvitie, Rick

From: Rick Talvitie
Sent: August 27, 2007 8:42 AM
To: 'chiefdeansayers@batchewana.ca'; 'alidstone@batchewana.ca'
Cc: 's.hamiltonbeach@cityssm.on.ca'
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Chief Sayers/Agnes


I just thought I would touch base with you to see how your band council meeting went last week. Were any questions raised regarding the EA we are undertaking on behalf of the City?

Let me know if we can be of any assistance to you in this matter. We look forward to receiving your input within the next month.

Thanks.

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

Website: www.tsh.ca

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Talvitie, Rick

From: Rick Talvitie
Sent: September 11, 2007 10:32 AM
To: 'chiefdeansayers@batchewana.ca'
Cc: 'alidstone@batchewana.ca'; 'Susan Hamilton Beach'
Subject: City of Sault Ste. Marie - Waste Disposal EA



Hi Chief Sayers,

I just thought I would touch base to see if we could be of any assistance to you with your ongoing consideration of the alternatives and the evaluation criteria. It is very important that we receive your feedback by the end of September at the latest. If there is anything we can do please do not hesitate to contact Susan Hamilton Beach at the City (759-5385) or myself at the number noted below.

Thanks.

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

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Talvitie, Rick

From: Agnes Lidstone [alidstone@batchewana.ca]
Sent: September 26, 2007 1:54 PM
To: Rick Talvitie
Cc: chiefdeansayers@batchewana.ca
Subject: Re: City of Sault Ste. Marie - Waste Disposal EA

Hi Rick

I submitted a report to BFN Council on August 22, 2007 with recommendations. To date Council has not dealt with the report and I am awaiting Council direction.

Agnes

----- Original Message -----

From: Rick Talvitie
To: chiefdeansayers@batchewana.ca
Cc: alidstone@batchewana.ca ; Susan Hamilton Beach
Sent: Tuesday, September 11, 2007 10:32 AM
Subject: City of Sault Ste. Marie - Waste Disposal EA

Hi Chief Sayers,

I just thought I would touch base to see if we could be of any assistance to you with your ongoing consideration of the alternatives and the evaluation criteria. It is very important that we receive your feedback by the end of September at the latest. If there is anything we can do please do not hesitate to contact Susan Hamilton Beach at the City (759-5385) or myself at the number noted below.

Thanks.

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

Website: www.tsh.ca

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Talvitie, Rick

From: Rick Talvitie
Sent: January 14, 2008 2:10 PM
To: 'jay@enquestpower.com'
Cc: 's.hamiltonbeach@cityssm.on.ca'
Subject: FW: City of Sault Ste. marie Waste Disposal EA

Hi Jay,


I just thought I would touch base to see how you are making out in providing comments on the two reports that are currently in a "Working Draft" format.

Can you please let me know when I can expect comments?

Much appreciated!

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

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From: Jay Zwierschke [mailto:jay@enquestpower.com]
Sent: November 12, 2007 5:39 PM
To: Rick Talvitie
Cc: 'Susan Hamilton Beach'; 'Kolli, Karla'
Subject: RE: City of Sault Ste. marie Waste Disposal EA

Rick,

I will call you tomorrow to discuss.

Regards,

Jay

From: Rick Talvitie [mailto:RTalvitie@tsh.ca]
Sent: November 9, 2007 11:26 AM
To: jay@enquestpower.com
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. marie Waste Disposal EA

Hi Jay,

I just wanted to touch base with you following your email correspondence with Susan in early October, 2007. As you are aware we have been soliciting and incorporating public and agency input into the "Alternatives To" evaluation. Susan provided you with a link to gain access to the DRAFT reports that were prepared in advance of public consultation period.


Have you had an opportunity to review the documents? Do you have any questions or comments regarding the information contained in the reports?

We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

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Talvitie, Rick

From: Rick Talvitie
Sent: November 9, 2007 11:34 AM
To: 'Agnes Lidstone'; chiefdeansayers@batchewana.ca
Subject: RE: City of Sault Ste. Marie - Waste Disposal EA

Hi Chief Sayers/Agnes,

It is important that we continue to make progress with our study. Has Council had an opportunity to address this matter? If not has a date been identified to address the matter? Is it possible to obtain a copy of Agnes' report?


We continue to be committed to assisting in any way we can including conducting a public consultation event in your community or attending a Band Council meeting.

We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

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From: Agnes Lidstone [mailto:alidstone@batchewana.ca]
Sent: September 26, 2007 1:54 PM
To: Rick Talvitie
Cc: chiefdeansayers@batchewana.ca
Subject: Re: City of Sault Ste. Marie - Waste Disposal EA

Hi Rick

I submitted a report to BFN Council on August 22, 2007 with recommendations. To date Council has not dealt with the report and I am awaiting Council direction.

Agnes

----- Original Message -----

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To: chiefdeansayers@batchewana.ca
Cc: alidstone@batchewana.ca ; Susan Hamilton Beach
Sent: Tuesday, September 11, 2007 10:32 AM
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Rick Talvitie, P. Eng.
Branch Manager

TSH

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Sault Ste. Marie, Ontario Canada P6A 2M4
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Talvitie, Rick

From: Rick Talvitie
Sent: January 22, 2008 8:41 AM
To: 'Agnes Lidstone'
Cc: chiefdeansayers@batchewana.ca; Susan Hamilton Beach (City); 'Kolli, Karla'
Subject: RE: City of Sault Ste. Marie - Waste Disposal EA

Hi Agnes,

As you know a substantial period of time has passed since we met with yourself and Chief Sayers. We remain hopeful that we will receive input from Batchewana First Nations before we proceed with the next phase of our Environmental Assessment process. We cannot however extend our project schedule for the current phase beyond the end of March, 2008.


TSH and the City remain committed to assisting you and your council in soliciting input from your community members. Please let us know if there is anyway we can assist you.

We look forward to hearing from you in the near future.

Thank you.

Rick Talvitie, P. Eng.
Branch Manager
TSH
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
Phone: (705) 942-2612
Fax: (705) 942-3642

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To: Rick Talvitie
Cc: chiefdeansayers@batchewana.ca
Subject: Re: City of Sault Ste. Marie - Waste Disposal EA

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To: chiefdeansayers@batchewana.ca
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Sent: Tuesday, September 11, 2007 10:32 AM
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Hi Chief Sayers,

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Thanks.

Rick Talvitie, P. Eng.
Branch Manager

TSH

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Talvitie, Rick

From: Talvitie, Rick
Sent: October 24, 2008 10:01 AM
To: 'chiefdeansayers@batchewana.ca'; 'alidstone@batchewana.ca'
Cc: 's.hamiltonbeach@cityssm.on.ca'
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment (EA)

Hello Chief Sayers,

We are continuing to work with the City of Sault Ste. Marie on their Environmental Assessment to address future management of solid waste. You may recall that Susan Hamilton Beach of the City of Sault Ste. Marie and I met with you to discuss this project some time ago. The project has experienced a number of delays, due in part, to allow additional time for public input.

In August, 2007 I believe that Agnes submitted a report addressing our ongoing EA for Band Council's consideration. Was that report ever tabled with Council? What were the outcomes?

Based on the revised project schedule we are proposing to move forward with the next phase of the EA early in the New Year. We remain hopeful that we will receive further input from Batchewana First Nations.

AECOM (you will note we have changed our name from TSH to AECOM as we have been purchased by a larger professional engineering firm as outlined below) and the City remain committed to assisting you and your council in soliciting input from your community members. As you know we conducted a public input session in Garden River First Nation and we would be pleased to conduct a similar event for your community members. Please let us know if you would like to proceed with a public input session or if we can assist in any other way.

Much appreciated. We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Branch Manager
rick.talvitie@aecom.com

AECOM

523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

My email has changed to rick.talvitie@aecom.com. Please update your address books accordingly.

Effective October 2008, Earth Tech, Gartner Lee, TSH and UMA are known collectively as AECOM. AECOM provides a blend of global reach, local knowledge, innovation and technical excellence in delivering solutions that enhance and sustain the world's built, natural, and social environments.

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Please consider the environment before printing this page.

Talvitie, Rick

From: Talvitie, Rick
Sent: December 12, 2008 8:55 AM
To: 'chiefdeansayers@batchewana.ca'; 'alidstone@batchewana.ca'
Cc: 'Susan Hamilton Beach'
Subject: FW: City of Sault Ste. Marie Waste Management Environmental Assessment (EA)

Hi Chief Sayers,

I just wanted to touch base regarding my earlier emails....when do you anticipate that we would receive some feedback? We are planning to move to the next phase of the process early in the new year.

We look forward to hearing from you. Let me know if we can be of any assistance.

Regards,

Rick Talvitie, P. Eng.
Branch Manager
rick.talvitie@aecom.com

AECOM

523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

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Please consider the environment before printing this page.

From: Talvitie, Rick
Sent: October 27, 2008 3:53 PM
To: 'mail.batchewana.ca'
Subject: RE: City of Sault Ste. Marie Waste Management Environmental Assessment (EA)

Hello Chief Sayers,

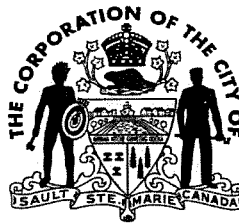
Thank you for the response and we will look forward to hearing from the CAO.

Much Appreciated.

Rick Talvitie, P. Eng.
Branch Manager
rick.talvitie@aecom.com

Jerry D. Dolcetti, RPP
Commissioner

Don J. Elliott, P. Eng.
Director of Engineering Services



ENGINEERING & PLANNING DEPARTMENT

Engineering & Construction Division

Tel: (705) 759-5378
Fax: (705) 541-7165

August 18, 2008

Mayor John Rowswell
Members of City Council

RE: REQUEST FROM EnQUEST POWER CORPORATION TO ENTER INTO A MEMORANDUM OF UNDERSTANDING WITH THE CORPORATION OF THE CITY OF SAULT STE. MARIE

Introduction

After lengthy consultation including the following individuals over the past several weeks, Engineering and Planning present this report regarding the EnQuest technology and the Memorandum of Understanding proposed by EnQuest:

- Jerry Dolcetti, Don Elliott and Susan Hamilton Beach (Engineering);
- Don McConnell (Planning);
- Lorie Bottos (Legal);
- Bill Freiburger (Finance);
- Jim Elliott (Public Works and Transportation)
- Jayson Zwierschke and Ernie Dueck, President and VP, EnQuest Power;
- Sarah Eckert Ferguson, Conestoga Rovers Associates (Consultant to EnQuest);
- Rick Talvitie, TSH (Waste Management EA Consultant for City SSM);
- Dave Merriman, Genivar (Waste Management EA Consultant for City SSM);
- Councillor Steve Butland; and
- Lilian Keen (MOE).

Background

The EnQuest pilot plant is located at the Sault Ste. Marie Fifth Line landfill site. The building has been fully constructed for approximately one year with the experimental process equipment undergoing commissioning since Fall 2007. The local MOE office has set January 24, 2008 as the initial day of operation with a one year lifespan established by the Certificate of Approvals (Waste and Air) for the site. It should be noted that the MOE is the governing agency authorizing the operation with allowable process limits (ie. maximum 3 tonnes of waste per day) and emissions standards (ie. compliance with MOE A-7 Guidelines) set by the C of A's.

The City of Sault Ste. Marie has a lease agreement with EnQuest and has agreed to supply the municipal solid waste ('MSW') for the pilot project. To-date we have supplied approximately 6 tonnes, in total. It is our understanding there have been a number of 'test batches' run over the last six months using feedstock such as mullet and MSW.

It is also our understanding that the emissions test (ie. stack test) has not been possible due to the inability to operate continuously. Staff has been told that the remaining issues are currently being addressed and that EnQuest intends to complete this test by the end of the Summer.

A number of City staff, Council and other invited guests have visited the pilot project.

Current Status of Waste Management EA

The City of Sault Ste. Marie's Waste Management Environmental Assessment ('EA') has been running parallel to the EnQuest pilot project for a number of years. Given the original timeframes estimated for the EnQuest pilot project to be complete, it was anticipated results of the pilot project could be considered within the evaluation of waste- to-energy ('w-t-e') technologies at an early stage of our EA, however, that has not been possible.

Over the last year, the City and our Consultants have been evaluating alternative approaches to managing solid waste in Sault Ste. Marie. The alternatives considered comprise of:

- Increased Waste Diversion
- Landfill
- Incineration/High Heat Processes
- Export (to a disposal facility elsewhere); and
- 'Do nothing'.

Evaluation criteria has been established and used to assess each of the waste management options. The criteria includes the following;

- Compliance with Regulations and Policies
- Environmental Acceptability
- Proven Technical Capability
- Ability of the City to Implement the Alternative
- Flexibility of the System
- Capability of Managing Waste Quantities and Qualities
- Economic/Cost

Elimination of Export and 'Do nothing' alternatives

The 'Do nothing' alternative has no advantages over other alternatives for any of the criteria considered. Export has few advantages when compared to the other alternatives. This is consistent with the input received by the public at our input sessions where comments stressed the 'Do nothing' alternative was not a realistic option and exporting waste was not reliable or sustainable for the long term.

Consideration of Increased Waste Diversion

Increased waste diversion is considered to be a preferred way of managing Sault Ste. Marie's waste. It is preferred or equal to other alternatives for five of the seven criteria. The primary disadvantage of this alternative is that it can only manage a portion of the City's waste.

Consideration of Landfill and High Heat Processes

The remaining two alternatives, landfill and conventional incineration/high heat processes, are considered to be equal for three of the criteria, including:

- Compliance with Regulations and Policies – both landfill and conventional incineration/high heat processes can comply with regulations and policies;
- Environmental Acceptability – both alternatives are highly engineered and can be designed to minimize potential for environmental effects;
- Proven Technical Capability – both alternatives have a proven ability to manage solid waste.

It must be clear that vendors of some of the newer high heat processes (eg. EnQuest and Plasco) have yet to prove they are equivalent to landfill for the criteria listed above.

Landfill is preferred when compared to conventional incineration/high heat processes for the remaining four criteria, considering:

- Flexibility of the System – Landfill is considered to be more flexible in its ability to adapt to changes in the waste stream, fluctuations in waste quantities and changes in government regulations and policies; whereas conventional incineration/high heat process facilities must be designed for a specified waste stream and can be costly to retrofit and/or expand.
- Capability of Managing Waste Quantities and Qualities – Landfill can accommodate virtually all of Sault Ste. Marie's waste; whereas conventional incineration/high heat process must be designed for only the most reliable component of the waste stream and this reduces its ability to include some of the other waste (ie. IC&I) which is an important factor in attracting and retaining economic development in Sault Ste. Marie.
- Economic/Cost – Landfill is currently significantly less costly than conventional incineration/high heat processes with a cost range of \$65-\$75 per tonne compared to \$110-\$220 per tonne for conventional incineration/high heat processes depending on the technology used.
- Ability of the City to Implement the Alternative – the City has significant experience with landfill and no experience with conventional incineration/high heat processes;

It should be noted that the conclusions above, particularly those related to the "Ability of the City to Implement the Alternative" and "Economic/Cost" may change in the future if the claims made by some vendors of the new high heat processes prove to be correct (ie. a private sector facility owner operator able to provide reliable service at a price that is competitive with landfill). This is the claim of EnQuest and these statements form the basis of the City moving forward with EnQuest in the next phases of their development.

For Council's information, based on the discussion about evaluation criteria at the Public Input Session in June 2007, issues related to environmental acceptability, flexibility and cost were top of mind for session participants. Landfill is equal or preferred over conventional incineration/high heat processes for all three of these criteria.

Summary of Preliminary Results of EA Evaluation

Overall, the preliminary results of the evaluation indicate that the preferred way for Sault Ste. Marie to manage its solid waste at this time is a combination of increased diversion and landfill. This system is the most flexible alternative to address changes in waste streams and an increase in recycling and reduction in waste generation; it can fulfill all of Sault Ste. Marie's waste management needs including continuing to service the private IC&I sector in a cost effective manner; and should not result in a significant cost increase to implement and operate.

It is noted that during consultation on the "Alternatives To", comments were received in support of landfill and incineration/high heat processes. The City's decision to move forward with increased diversion and landfill at this time, does not preclude the consideration of incineration/high heat process technologies in the future as systems are refined, prove their capabilities and reliability, and become less costly. The provision of additional disposal capacity in a landfill at this time would also support the future implementation of an incineration/high heat process facility when it becomes a more practical and cost effective system for Sault Ste. Marie since the residual material from a high heat process must be landfilled.

The EnQuest Proposal

EnQuest Power has approached Staff with the request of entering into a Memorandum of Understanding for the supply of curbside MSW for a demonstration plant. EnQuest requires this document in order to secure \$3.4M funding from Sustainability Development Technology Canada. A demonstration plant, by definition of the MOE, will be allowed to process a maximum of 75 tonnes per day of waste. Further details are provided in the report by Lorie Bottos, which is appended to this report. This report poses two non-technical concerns of Staff that being sole sourcing the technology and the annual expenditure of an estimated \$1.5M in tipping fees to EnQuest which is currently not included in the budget.

The Memorandum of Understanding is also attached for Council's information and approval.

Sault Ste. Marie's Unique Situation

Ultimately, the City of Sault Ste. Marie finds itself in a unique situation. We have hosted a waste-to-energy pilot project within our community with the proponent confidently claiming this technology is going to revolutionize waste management worldwide. Existing proven conventional incineration/high heat processes are reliable, but, are not financially feasible for a community of our size.

However, most recently in Ontario, there are new waste-to-energy technologies making the claim that they can process municipal solid waste for smaller communities more economically. EnQuest is one such technology. The principle difference between the new technologies versus the conventional proven technologies is that the vendors of the newer technologies claim they can generate 1200-1400 kW/hr of electricity per tonne of waste as opposed to 600 kW/hr/tonne with conventional incineration/high heat processes. These enhanced electricity revenues allow the vendors to charge a lower tipping fee for the waste.

Giving consideration to the claims and the benefit that a waste-to-energy facility may have in reducing the quantity of waste going to our landfill, Staff and our Consultant state the risks must be understood and minimized if we choose to move forward with EnQuest.

The risks include:

1. **Costs/Tipping Fee** – There have been examples across the province whereby the cost analysis and thus the tipping fee were a moving target throughout the development process.

EnQuest has offered a tipping fee of \$60.00 per tonne be paid by the City of SSM and this price is competitive to our landfill cost. City staff have stated this cost in the Memorandum of Understanding, with consideration of the Ontario Consumer Price Index, and stress that at this cost this is a reasonable proposal.

2. ***Siting the Facility*** – Our Consultant recommended along with Staff that the facility be located off of the landfill property and on privately owned property. Due to the nature of the operation there would be insurance and potential liability considerations if on City-owned land. This requirement is included in the proposed Memorandum of Understanding.
3. ***Decommissioning Considerations*** – Our Consultant recommended that all decommissioning responsibilities be the responsibility of EnQuest. Once again, if the facility was on our landfill property that responsibility could fall to the City should the process fail and waste remained on the site unprocessed. Should the process fail off-site, the MOE may still hold the City liable for cleanup based on the origin/ownership of the waste. By ensuring the development be located off of the landfill property, it is expected that this risk is minimized.

It must be understood that although Staff expect risks may be minimized, Engineering and Planning will not be able to recommend EnQuest technology in comparison to any other new waste-to-energy technology even following the pilot project as there is not enough competition or measures to compare (ie. the only other plant is Plasco in Ottawa). Our Consultant suggests that a positive recommendation could be based on the proof that the claims by EnQuest are true.

Most importantly, based on the timing of the pilot project, the typical and potential timeframe to develop a demonstration facility and the years required to establish a potential commercial full-scale permanent facility, our Consultant stressed that support of EnQuest's technology should not mean abandoning our existing landfill. Please refer to Figure 1 as a potential timeline for the EnQuest development and the affect of the potential waste processing quantities on our current landfill. Ensuring that adequate landfill capacity is available for all of Sault Ste. Marie's waste is essential, as succeed or fail, landfill space will be required to serve the City.

Recommendation

Given consideration of all of the above, the Engineering and Planning Department recommends that the Memorandum of Understanding be entered into with EnQuest Power Corporation for a six month period of time. It is anticipated that the six month time frame will allow EnQuest to further prove/support their claims to both the municipality and the MOE.

The following supporting documentation should be included in EnQuest's submission:

- The cost to build/operate is proven – ie. \$60.00 per tonne of waste.
- The emissions are proven to be within A-7 Guidelines and consider all future emission targets, as the MOE currently states the target will get more stringent.
- The process is reliable – the operation can continuously operate and
- The process can meet the demands of an energy partner.

And

Furthermore, following this six month stage it is recommended that a further report be prepared by Staff for Council to present the success/failure of the pilot project based on the criteria established by the MOE and the City.

And

Furthermore, approve the continuance of the landfill operation and the City's continuing investigation of the present waste management EA study.

Respectfully submitted,

Recommended for Approval:

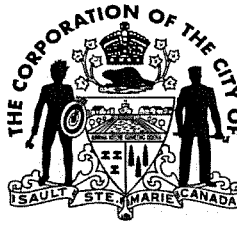
Susan Hamilton Beach, P. Eng
Land Development & Environmental Engineer

Jerry D. Dolcetti, RPP
Commissioner

/bb

Jerry D. Dolcetti, RPP
Commissioner

Don J. Elliott, P. Eng.
Director of Engineering Services



ENGINEERING & PLANNING DEPARTMENT

Engineering & Construction Division

Tel: (705) 759-5378
Fax: (705) 541-7165

June 8, 2009

Our File: B-05-04

Mayor John Rowswell
Members of City Council

**RE: Elementa (formerly EnQuest) Proposal for a
Energy-from-Waste Plant in the City of Sault Ste. Marie**

Purpose of the Report

The purpose of this report is to address the Council resolution dated July 21, 2008, the conditions of the MOU and Elementa's current request that the City enter into a long term waste provision contract. The timing of this report is such that it has allowed for Elementa to conduct its source testing, have the required reports prepared which have then been reviewed and discussed in a number of meetings and teleconferences between Elementa, the City and our Consulting team.

Introduction

The Elementa (formerly EnQuest) project has resulted in lengthy consultation and review by many levels of government, consultants and the Elementa team. It should be recognized that the following have participated in this process:

- Engineering and Planning Department Staff (J. Dolcetti, D. Elliott, S. Hamilton Beach, D. McConnell, S. Turco);
- Legal Department (L. Bottos);
- Finance Department (B. Freiburger);
- Public Works & Transportation (J. Elliott);
- Elementa Group (J. Zwierschke, E. Dueck, D. Wood);
- Conestoga-Rovers & Associates (S. Eckert-Ferguson) – Consultant to Elementa;
- Shelby Environmental Services (Jim Harmar) – Consultant to Elementa;
- AECOM - SSM (Rick Talvitie) – Waste Management EA Consultant for City SSM;
- GENIVAR (Dave Merriman) – Waste Management EA Consultant for City SSM;
- AECOM - Vancouver (Konrad Fichtner) – Waste Management EA consultant for City SSM;
- Councillor Steve Butland; and
- MOE Staff – Lilian Keen, Rod Stewart, Guillermo Azocar.

Background

Following the report to Council dated July 21, 2008, see attached, a Memorandum of Understanding was entered into between the City and Elementa dated August 18, 2008. A copy of this MOU is also included for your reference. The Council Resolution read as follows:

"Resolved that the report of the Land Development and Environmental Engineer dated 2008 08 18 concerning Request from EnQuest Power Corporation to enter into a Memorandum of Understanding with the Corporation of the City of Sault Ste. Marie be accepted and the recommendation

1. that the MOU be entered into with EnQuest Power Corporation for a six-month period of time which will allow EnQuest to further prove/support their claims to both the City and the MOE; and
2. that following the six-month stage, a further report be prepared by Staff for Council to present the success/failure of the pilot project based on the criteria established by the MOE and the City; and
3. that Council approve the continuance of the landfill operation and the City's continuing investigation of the present waste management EA study, be approved."

Items 1 through 6 on page 2 of the MOU were the obligations to be met by Elementa prior to moving forward.

On December 16, 2008 a detailed submission was made by Elementa to the City which included the following key documents:

1. Source Testing Report by Lehder (draft dated October 2008). Final provided later dated January 5, 2009;
2. SNC Lavalin Report (Third Party Review) dated December 3, 2008;
3. Financial Package including a Financial Summary, BMO Indicative Term Sheet (unauthorized), Term Sheet for SDTC (Sustainable Developmental Technology Fund) Funding;
4. MOE Certificate of Approvals; and
5. Company Profiles for Similar Technologies (potential partners).

The review of this submission resulted in a letter being forwarded to Elementa dated February 19, 2009 by the City which accompanied a letter report prepared by our Consultant team with further questions or concerns.

A number of meetings and teleconferences resulted in a streamlined list of outstanding questions (12 in total) which we received a reply to on May 14, 2009 with further supporting documentation.

Several key points should be made:

- In total, several hundred pages of information have been provided by the Elementa team with the genuine intent to satisfy the City's requirements. In general, staff and our Consulting team understand the conditions of the MOU have been substantially satisfied, however, the length of time of continuous operation of the pilot plant was less than stipulated.
- The review of the submissions has been thorough with the intent of City staff and our Consultants being to identify and minimize the risk(s) to the City of entering into a long-term waste provision contract. It was not the goal of this process to recommend this technology or the decision to proceed with energy-from-waste. Those recommendations would only result after the completion of our Waste Management EA.
- In general, our Waste Management EA has been "stalled" for the timeframe of this review in order to fully appreciate the impact it may have on the results of our EA. Our Consultant team has taken this step at the direction of the City and have patiently awaited to recommence the study activities, with the encouragement of the Ministry of the Environment.

General Discussion

It should be noted that the evaluation criteria established in our Waste Management Plan EA has been applied in this separate decision making process and has thus created the foundation for the discussion below.

- a) ***Compliance with Regulation and Policies*** – The study conducted at the Elementa pilot plant provided encouraging results with regards to compliance with relevant air emission standards. The Leher Report noted "the Syngas Flare Stack appears to be well within all applicable pollutant concentration limits described in C of A....".

The MOE's Source Assessment Officer has made the following key comments:

1. During the source testing program, only domestic municipal waste was processed, which provides only a narrow scope of the gasification process effectiveness to process wastes other than municipal waste;
 2. The reported feed rates throughout the source testing were optimized at 26% of the maximum allowable by the C of A. There is concern that this low feed rate may not represent pilot plant emissions when operating at maximum feed rate capacity; and
 3. All the contaminants with in-stack limits met those limits, but for nitrogen oxides.
- b) ***Environmental Acceptability*** – Based on preliminary air emission results, it is most probable that any environmental concerns can be mitigated / engineered.

- c) ***Proven Technical Capability*** – The Lavalin Report states that “the findings of this study indicate that, based on the rotary kiln process technology used in the Elementa Pilot Plant the process technology can be scaled up to design, build and operate a Commercial Demonstration Plant.” It should be noted that, as indicated in the Lavalin Report, the pilot plant test results are promising however, 8 “Observations and Discussion” points were raised that need to be addressed in the design and operation of the Commercial Demonstration Plant. It is City staff’s opinion that the next stage of the development remains experimental in nature and the overall success of the full scale plant must yet be proven. Our consultant team has concluded that one of the areas of risk remains the “scaleability” of this project.
- d) ***Flexibility of the System*** – In general, an energy-from-waste plant remains less flexible than a landfill. The plant will be designed for a specific volume in order for it to be profitable through the sale of electricity. It is our understanding the plant will be designed to process 25,000 – 32,000 tonnes annually. The volume of curbside residential waste that is the focus of the City’s agreement is currently between 12,000 – 15,000 tonnes annually. Elementa has been provided with the results of a 2006 City of Sault Ste. Marie residential waste audit and we have had discussions regarding the potential changes to the waste stream. It has been made clear that no guarantees can be made as to quantity or quality of waste at the curb. It has also been noted that the City’s overall waste management program may change as we may be mandated by provincial regulations (ie. organics program) and these changes have the potential to result in significant future impacts to the energy value of our waste.

Once the optimal design is complete and the plant is built, it can be extremely costly to modify to accommodate waste stream changes or more stringent regulatory emission requirements.

- e) ***Capability of Managing Waste Quantities and Qualities*** – The municipality of Sault Ste. Marie can only commit to the provision of residential waste. The Industrial, Commercial and Institutional (“IC & I”) sector is responsible annually for equal or greater volumes, but this waste is left to the private sector to manage. It is our belief that a portion or a balance of the waste required for the Elementa plant may come from this sector. This sector is currently a “customer” of the landfill and therefore every tonne of waste diverted from this sector to the energy-from-waste facility will result in a loss of revenue in tipping fees to the City. This has the potential to be approximately \$1M annually, but, it would further extend the life of the landfill.
- f) ***Economic / Cost*** – As has been previously stated to Council, conventional incineration / high heat processes are significantly more costly than landfilling. Elementa has offered the City of Sault Ste. Marie the tipping fee of \$60 per tonne. Much of the recent effort by City staff and our Consultants has been spent validating the feasibility of the plant in an effort to avoid a possible higher tipping fee down the road. Other communities have been faced with this situation in the past as once an energy-from-waste plant is built and operating, the economics require an increased tipping fee. Since several parameters seem very optimistic in their financial model (eg. quantity of electricity produced annually) the economic viability of the facility with a \$60.00 per tonne tipping fee remains to be proven. It should be noted that at \$60 per tonne plus CPI, the potential of diverting 12,000 – 15,000 tonnes per year from the

landfill for approximately \$1M is cost effective for the City, however, the terms of the agreement need to protect the City from future increases.

Our consultant team has concluded that one of the areas of risk remains the revenue side of this project (ie. the financial model includes the plant operating 95% of the time with a very high efficiency rate and rate for electricity from the Ontario Power Authority 'OPA' remains under negotiation).

- g) **Ability of the City to Implement the Alternative** – The proposal from Elementa would include the design, build and operation of the facility, thus the City would not be required to have this in-house expertise. The location of the commercial/demonstration plant has not yet been confirmed, however, the City landfill site is not an option due to the liabilities it would pose.

Waste Management Decision Making Process

Stated once again, Sault Ste. Marie finds itself in a unique situation with regards to its most recent waste management decision making process. We have hosted an energy-from-waste pilot project within our community and initial results, on a small scale with limited quantities of waste and no energy production, seem promising. Without the completion of the EA process, we are being asked to include energy-from-waste in our waste management system. As is written in the March 2009 issue of Municipal World article *Energy-from-Waste Essential to a Successful Integrated Waste Management System*, "Since evidence indicates a zero-waste society is at least a generation or more away, the diversification that is fundamental to an integrated system mitigates risk. An integrated system is fully compatible with triple bottom-line measures of sustainability: social, environmental, and economic."

Integrated options must reduce the overall environmental burden by complementing – not competing with – recycling and diversion programs. Moreover, as Canadians annually generate over 1,000 kilograms of waste per capita (a steadily rising number); ignoring the role of energy-from-waste is counter-productive.

Staff accepts that a fully integrated approach for Sault Ste. Marie may mean landfilling, recycling and energy-from-waste and anticipate that a community based integrated solution may be possible if Elementa is successful in its next stage of project development. It does need to be recognized that Elementa's technology will only be addressing a portion of the waste stream (approximately half) and there will be a residual to their process.

Another issue is created for the municipality with the elimination of all of the residential curbside waste from landfill disposal – biosolids management. Currently, approximately 10,000 tonnes annually of this material is mixed in and covered by the curbside refuse that arrives at the site daily.

Completing the overall Waste Management EA will properly address how the City should handle its entire waste stream and include an updated business plan on how best to pay for the expense of an integrated approach.

Waste Provision Agreement

It is staff's understanding, based on MOE discussions and correspondence, that the City may enter into a long-term waste provision agreement with Elementa and not contravene the Environmental Assessment Act. It is expected that an agreement may be negotiated with Elementa that will allow for the supply of curbside waste with no guarantees or liabilities with respect to quantities, composition or its energy value. There are other municipal sources of waste that Elementa may wish to secure with other implications, ie. additional transportation costs, contractual obligations, lost tipping fee revenue etc. that will need to be addressed. It is anticipated these potential feedstocks will be independently addressed and negotiated.

Schedule

Please find attached Figure 1 which represents staff's best estimate of the revised potential timeline for the establishment of a full scale energy-from-waste plant. *Given the success or failure of this plant, it must be recognized that landfill capacity will be required.*

It is critical, as has been strongly encouraged by the MOE, that the overall Waste Management Plan EA be continued to meet the waste requirements of the community for years to come.

It is understood by Staff and has been stated most recently by the Environmental Commissioner of Ontario, Mr. Gordon Miller, that it typically takes 10 – 15 years for a new technology to thrive and therefore the timeframe included with this report may be optimistic.

Summary

In summary, the decision to include Elementa's energy-from-waste technology as part of the City's integrated waste management system must be perceived by the community and Council as participating in an experiment. The City and Consultant review has identified a number of potential risks and concerns. There remains uncertainty with regards to the feasibility of the project – ie. the revenue side of the financial model, overall plant reliability, efficiency and scalability.

However, it is staff's opinion that an acceptable agreement may be negotiated which ensures those risks will be borne by Elementa and not the City. Continuing with the overall Waste Management EA will ensure the municipality's waste management responsibility is addressed and the funding requirements identified.

Recommendation

Given consideration of all of the above, the Engineering and Planning Department recommends that the City negotiate an agreement with Elementa for the long term provision of all residential curbside waste (ie. five year contract plus 5 year renewal option) that would address the concerns/risks to the City, including, but not limited to the following:

1. There shall be no guarantee or liability associated with the quantity or quality of waste provided by the City.
2. Elementa shall agree to the \$60.00 per tonne tipping fee, subject to an annual CPI adjustment, and this cost shall not be negotiable during the term of the contract.
3. All Federal, Provincial and local permits and approvals shall be the responsibility of Elementa.
4. Elementa shall carry insurance, acceptable to the City to cover fire and explosion risks.
5. That the City's Fifth Line landfill site shall not be considered an option for the location of the Elementa plant.

And

Furthermore, that the City's Waste Management EA consultant team shall facilitate and assist the City in the agreement negotiations.

And

Furthermore, that Elementa must construct and have in operation the energy-from-waste plant to process Sault Ste. Marie's curbside MSW within 5 years of the MOE approval of the energy-from-waste plant.

And

Furthermore, approve the continuance of the landfill operation and the City's continuing investigation through the completion of the overall Waste Management EA study.

Respectfully submitted,

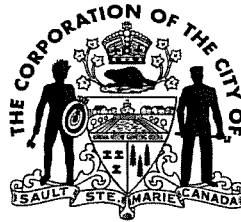
Recommended for Approval:

Susan Hamilton Beach, P. Eng
Land Development & Environmental Engineer

Jerry D. Dolcetti, RPP
Commissioner
Engineering & Planning Department

Jerry D. Dolcetti, RPP
Commissioner

Don J. Elliott, P. Eng.
Director of Engineering Services



ENGINEERING & PLANNING DEPARTMENT

Engineering & Construction Division

Tel: (705) 759-5378
Fax: (705) 541-7165

October 26, 2009

Our File: B-05-04

Mayor John Rowswell
Members of City Council

**RE: Elementa Waste Provision Agreement
Energy-from-Waste Plant in the City of Sault Ste. Marie**

Purpose of the Report

The purpose of this report is to present to Council an agreement negotiated with Elementa, concerning the provision of the City's curbside municipal solid waste, curbside Industrial, Commercial & Institutional (IC&I) waste and Public Works and Transportation (PWT) waste.

Background

Staff presented a report at the Council meeting of June 8th, 2009 with the following items as a summary:

- The decision to include Elementa's energy-from-waste technology as part of the City's integrated waste management system must be perceived by the community and Council as participating in an experiment; and
- The City and Consultant review of the Elementa pilot project has identified a number of potential risks and concerns. There remains uncertainty with regards to the feasibility of the project – ie. the revenue side of the financial model, overall plant reliability, efficiency and scalability; however,
- It was staff's opinion that an acceptable agreement may be negotiated which ensures those risks will be borne by Elementa and not the City; and
- Continuing with the overall Waste Management EA will ensure the municipality's waste management responsibility is addressed and the funding requirements are identified.

Council's resolution read as follows:

Resolved that the report of the Land Development and Environmental Engineer dated 2009 06 08 concerning the Elementa (formerly EnQuest) Proposal for an Energy-from-Waste Plant in the City of Sault Ste. Marie be accepted and the recommendation that the City negotiate an agreement with Elementa for the long term provision of all residential curbside waste (i.e., five-year contract plus five-year renewal option) that would address the concerns/risks to the City, including but not limited to the following:

1. *There shall be no guarantee or liability associated with the quantity or quality of waste provided by the City;*
2. *Elementa shall agree to the \$60.00 per tonne tipping fee subject to annual CPI adjustment, and this cost shall not be negotiable during the term of the contract;*
3. *All Federal, Provincial, and local permits and approvals shall be the responsibility of Elementa;*
4. *Elementa shall carry insurance acceptable to the City to cover fire and explosion risks;*
5. *The City's Fifth Line Landfill site shall not be considered an option for the location of the Elementa plant; and*

Furthermore that the City's Waste Management EA consultant team shall facilitate and assist the City in the agreement negotiations; and

Furthermore that Elementa must construct and have in operation the energy-from-waste plant to process Sault Ste. Marie's curbside MSW within 5 years of the MOE approval of the energy-from-waste plant; and

Furthermore approve the continuance of the landfill operation and the City's continuing investigation through the completion of the overall waste management EA study, be approved.

Council's resolution and approval of the recommendation within that report allowed staff to negotiate an agreement with Elementa that has led to several months of dedicated effort to ensure the City's risk was minimized; yet, the opportunity for Elementa to build and operate a commercial/ demonstration plant in Sault Ste. Marie was possible.

Key Highlights of the Agreement

The following items are key points in the agreement:

1. A guaranteed waste quantity of 12,500 tonnes per year is included. Our last report stressed a guarantee could not be given, however, throughout our negotiations with Elementa this became a deal breaker. Staff remains reluctant to include this in the agreement as there is a financial risk to the City if the tonnage cannot be provided. However, an examination of the past five years of volumes received at the landfill has allowed the inclusion of this guarantee as staff understands a 'buffer' exists of approximately 4000 tonnes. Changes in legislation could mandate additional diversion programs (ie. organics) which will reduce the volume of waste available to Elementa, so clauses in the agreement have been included to prevent the payment of the tipping fee for the quantity of waste affected by such legislation.

To ensure the waste quantity guarantee, we also recommend at this time including the following additional waste streams:

- Curbside Industrial, Commercial & Institutional Waste; and
- Public Works & Transportation Waste

The agreement also allows for Elementa to provide bins at the City landfill to collect waste from the public.

2. The City shall pay Elementa \$60.00 per tonne subject to an annual CPI adjustment. This increase will commence once the first full year of production is achieved. For our waste quantity guarantee, this is a minimum annual contract for \$750,000. Consultation with Bill Freiburger, Commissioner of Finance and Treasurer, has identified it is anticipated this amount will be paid through the Landfill Reserve.

Council must be aware that this reserve is currently funded by the tipping fee charged at the landfill. It is foreseeable that the balance of the volume of waste required to make the Elementa technology feasible will be found in the IC&I sector ie. current customers of the City landfill may dispose of their waste at Elementa in the future. Although, the advantage remains that landfill space in the City site will be saved by this diversion to Elementa, the Landfill Reserve may suffer and the General Levy may be required to pay our tipping fee to Elementa.

3. Commencement date for operations is set within the agreement as April 1, 2011. A reason for termination is valid if the first year of full production is not reached by December 31, 2015.
4. All Federal, Provincial and local permits and approvals are the responsibility of Elementa.
5. Insurance provisions shall satisfy the City.
6. The Elementa site shall not be at the City's landfill.
7. The City has priority for processing its guaranteed waste quantity (12,500 tonnes).
8. The agreement is for a 10-year term with an automatic renewal option for an additional 10 years.
9. All "green attributes" ie. carbon credits, etc. are Elementa's right.

Other Considerations

1. Council is cautioned that additional City staffing may be required. To-date, Engineering staff has been predominantly involved in the dealings with Elementa, however, it is foreseeable that following the implementation of the technology, Public Works staff will play a large role in the administration of the contract and the provision of the waste. The staffing demands are not completely understood at this time, but Council should appreciate that a integrated waste management system with Elementa as a component may require additional personnel or a shift of duties for existing staff at Public Works. It must be stressed that all waste collection responsibilities will remain the same and it is anticipated that the landfill must remain operational with the existing staffing compliment, as well.
2. During Elementa's presentation to Council on July 21, 2008, a financial reward was made to the City which included a financial royalty of \$200,000 per plant sold by Elementa – which would continue to \$5,000,000 – with 12 projects in early stage agreement form. A clause had been included in this agreement which allows for a separate agreement to be entered into to finalize this offer.

3. With the endorsement of this agreement, staff may now examine how best to proceed with the Waste Management EA. Given that the potential timeframe is defined in the agreement and waste diversion quantities are better understood, staff and our Consultant may ensure the City's waste management needs are satisfied with and without the inclusion of Elementa as an effective part of our integrated waste management system.

Recommendation

The Engineering and Planning Department recommends endorsing the attached agreement and By-law 2009-178 placed elsewhere on the agenda for your consideration.

Respectfully submitted,

Recommended for Approval:

Susan Hamilton Beach, P. Eng
Land Development & Environmental Engineer

Jerry D. Dolcetti, RPP
Commissioner
Engineering & Planning Department

Talvitie, Rick

From: Naval, Edward (ENE) [Edward.Naval@ontario.ca]
Sent: April 1, 2010 2:35 PM
To: Kolli, Karla
Cc: Talvitie, Rick; s.hamiltonbeach@cityssm.on.ca; Varghese, Betsy; 066988
Subject: Sault Ste. Marie Solid Waste Disposal Environmental Assessment

Hello,

As a follow-up to our meeting, I mentioned I would look into getting some advice regarding your strategy to consult with members of the Government Review Team (GRT) throughout the 'Chapter by Chapter' development of your individual EA. The advice I was given suggests that you do not send each of your EA chapters/phase reports to the GRT as it will likely not be effective and may be counter productive in obtaining comments on the Final complete Draft of the EA (may burn out the GRT). My suggestion would be to have preliminary discussions with any members of the GRT you may think will have an interest on a specific chapter/phase report, and ask them if they would like to comment now or after a draft EA report has been completed.

However, we still encourage you to continue your chapter by chapter consultations with members of the public, and especially with the First Nations. I will still be happy to look at each chapter/phase report and give you any comments I may have. At the end (ie. once you have prepared a draft EA) you should send it out to the GRT for comments.

Feel free to call me if you want to discuss.

Edward

Edward Naval
Project Officer
EA Project Coordination Section
Environmental Assessment and Approvals Branch
Ministry of the Environment
2 St. Clair Avenue West, 14th Floor
Toronto ON M4V 1L5
Tel: (416) 314-3352
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Talvitie, Rick

From: Talvitie, Rick
Sent: May 31, 2010 3:10 PM
To: edward.naval@ontario.ca
Cc: Kolli, Karla; Varghese, Betsy
Subject: City of Sault Ste. Marie Solid Waste Disposal EA

Hi Edward,

We are conducting a Public Information Centre on June 3rd to announce the preferred "Alternative To". Details regarding the Information Centre are included in the attached Newsletter that was issued to some 385 agencies and individuals.

We will also be forwarding the following reference documents to you in the coming weeks:

- comprehensive public consultation plan;
- "Waste Quantity Projections and Profile of Existing Environment Profile" Report; and
- "Alternatives to the Undertaking" Report.

Let me know if you have any questions.

Regards,



SSM_Newsletter
05-21-2010 - Fi...

Rick Talvitie, P. Eng.

Manager, Sault Ste. Marie Office
D 705.942.2612
rick.talvitie@aecom.com

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SOLID WASTE DISPOSAL

ENVIRONMENTAL ASSESSMENT

Newsletter No.2, May 2010

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its residual municipal solid waste. In the evaluation of "Alternatives To the Undertaking", a thorough review of different waste management alternatives including increased waste diversion, incineration/high heat processes, landfill, export waste outside the service area, and "do-nothing" was completed. To identify a preferred waste management method, the alternatives were comparatively evaluated using the following seven criteria:

1. Compliance with current regulations and policies;
2. Environmental acceptability;
3. The ability of the City of Sault Ste. Marie to implement the preferred alternative;
4. Flexibility of the system;
5. Capability of managing waste quality and quantity;
6. Proven technical capacity; and
7. Cost.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative for the City has been identified as **increased waste diversion and landfilling of the residual waste**.

DIVERSION UPDATE

The residential waste diversion program diverted approximately 34% of residential waste from the landfill in 2009. This shows consistent progress when compared to the 9% diverted in 2000! The City of

Sault Ste. Marie's waste diversion program currently includes weekly curbside collection and recycling of paper products in the yellow box and containers in the blue box; bi-weekly collection and composting of leaf and yard waste throughout the growing season (April through November); a household special waste facility at 115 Industrial Park Crescent; landfill bans and segregation and recycling of metals, white goods, tires, and clean wood and brush at the landfill at 402 Fifth Line East. Since 2006, the City has limited residential waste setout to 2 bags/containers per week per household. Tags for additional waste bags or containers must be purchased. The City diversion programs are also supplemented by diversion initiatives undertaken by the private sector and special interest groups.

The City is also currently assessing the feasibility of diverting municipal biosolids (sewage sludge) from disposal.



PUBLIC INFORMATION CENTRE

A Public Information Centre is being held to provide an opportunity for you to discuss the project progress and have your questions or concerns addressed.

Date: Thursday, June 3, 2010

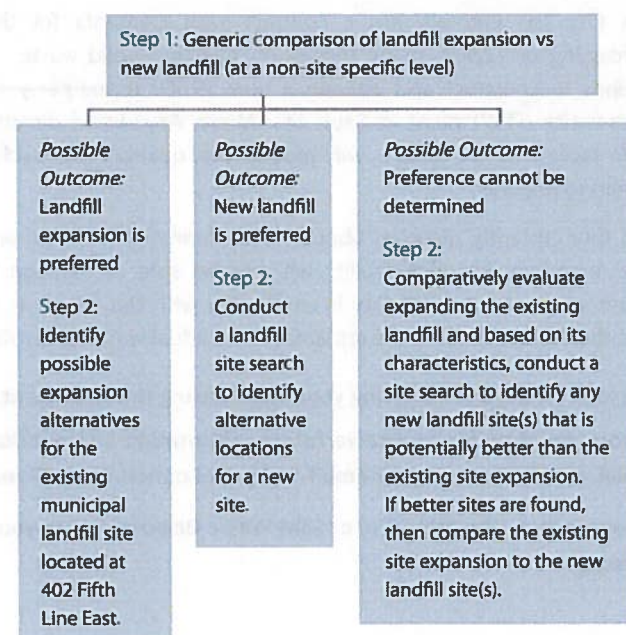
Location: Thompson Room
Civic Centre, 99 Foster Drive

Time: 3:30 pm to 7:30 pm

WHAT'S NEXT?

The results of the Environmental Assessment work completed to date suggest that landfill remains the most appropriate disposal option for the City's residual waste. Landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and recovered to generate electricity, landfills can manage the entire residual waste stream, are flexible to changes in waste quality and quantities and are cost effective.

Following the "Alternatives To" evaluation, the next step in the EA process for a landfill facility is the identification and evaluation of "Alternative Methods" of landfilling. This can include both alternative locations and alternative designs as illustrated in the flow chart below. We will be looking for public input on landfill options in the Fall of 2010.





SOLID WASTE DISPOSAL ENVIRONMENTAL ASSESSMENT

Newsletter No.2, May 2010

ABOUT THE ENVIRONMENTAL ASSESSMENT (EA) PROCESS

The Environmental Assessment for disposal capacity includes three key phases. The first phase was completed with the submission and approval of the EA Terms of Reference. We are currently working within the second phase: the Environmental Assessment Study itself. The last phase is submission of the EA documentation to the Ministry of the Environment and the subsequent government and public review and approval period. It is anticipated that the whole process will take until late 2012.

In September 2005 the Minister of the Environment approved the Environmental Assessment Terms of Reference (EA TOR) for the Sault Ste. Marie Solid Waste Management Plan. The EA TOR documents the process that will be followed to determine the preferred method for managing solid waste in Sault Ste. Marie for the next 20 to 40 years. In addition to the disposal EA, the Sault Ste. Marie Solid Waste Management Plan includes a significant diversion component.

Keep up-to-date on the EA Study at the City of Sault Ste. Marie's website: http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1

ELEMENTA ENERGY-FROM-WASTE FACILITY

In 2007, an energy-from-waste (EFW) developer known as The Elementa Group (Elementa) constructed a pilot steam reformation plant that would convert municipal solid waste into a char and synthetic gas (or "syngas") that can be used to generate electricity.

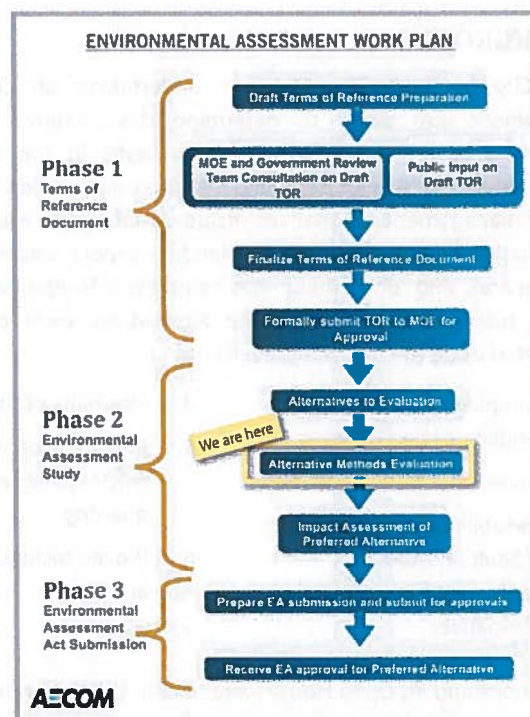
The City has entered into a contract with Elementa for the annual processing of 12,500 metric tonnes of municipal solid waste. Elementa intends to construct and operate a new 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility in the future will reduce the quantity of residual waste requiring disposal.

The City currently disposes about 60,000 tonnes of residual waste each year therefore; the EFW facility will not be able to manage the City's entire waste stream. The City is continuing with the EA study to ensure that the City can process the remainder of residual waste generated.

We look forward to receiving your input during this important study!

If you would prefer to receive future information and notifications via email, please forward your email address to nancy.maahs@aecom.com.

Please include the title "City of SSM Waste Disposal EA" in your message.



CONTACT US

Your input on this project is important to us. If you would like further information or to send comments, ask questions or be added to our mailing list, please contact us:

Mr. Rick Talvitie, P.Eng

Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.

Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on

THE CITY OF SAULT STE. MARIE

Notice of Public Information Centre

SOLID WASTE DISPOSAL ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its residual municipal solid waste. Work to date has included a thorough review of a number of waste management alternatives including increased waste diversion, incineration/high heat process, landfill, export waste and "do nothing". To identify a preferred waste management method, the alternatives were comparatively evaluated using the following seven criteria:

1. Compliance with current regulations and policies;
2. Environmental acceptability;
3. The ability of the City of Sault Ste. Marie to implement the preferred alternative;
4. Flexibility of the system;
5. Capability of managing waste quality and quantity;
6. Proven technical capacity; and
7. Cost.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative for the City has been identified as **increased waste diversion and landfilling of the residual waste**.

Residents currently divert approximately 34% of their waste from disposal and the City will continue to provide opportunities to improve on this diversion rate. The remaining 66% of residential waste and industrial, commercial and institutional wastes currently goes to the City landfill. In addition to the City's current diversion, the City has entered into a contract with a private corporation for the annual supply of 12,500 metric tonnes of municipal solid waste. This corporation intends to construct and operate a 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility will reduce the quantity of residual waste requiring disposal.

The results of the Environmental Assessment work completed to date suggest that landfill remains the most appropriate disposal option for the City's residual waste. Landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and recovered to generate electricity, landfills can manage the entire residual waste stream, are flexible to changes in waste quality and quantities and are cost effective.

PUBLIC INFORMATION CENTRE

A Public Information Centre is being held to provide an opportunity for you to discuss the project progress and have your questions or concerns addressed.

Date: Thursday, June 3, 2010
Location: Thompson Room
Civic Centre, 99 Foster Drive
Time: 3:30pm to 7:30 pm

THE NEXT STEPS

Over the summer the project team will be looking at options for landfilling residual waste. This work will include consideration of opportunities to expand the existing landfill or establish a new landfill site. In the Fall of 2010, we will be looking for public input on landfill options.

If you have any questions related to the study, please contact:

Mr. Rick Talvitie, P. Eng.
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612
Fax: 705-942-3642
E-mail: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P. Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580, 99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1

Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

If you would like to receive future information and notifications via email, please forward your email address to nancy.maahs@aecom.com. Please include the title "City of SSM Waste Disposal EA" in your message.

Talvitie, Rick

From: Talvitie, Rick
Sent: May 21, 2010 3:35 PM
To: cbarry@gardenriver.org
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Caroline,

It has been some time since we last spoke. Our firm is currently assisting the City of Sault Ste. Marie in undertaking their Solid Waste Disposal Environmental Assessment. You may recall that we attended a Band Council meeting and subsequently conducted a public information centre in your community on June, 2007.

We are now planning to conduct an open house in the City of Sault Ste. Marie to announce the preferred alternative to manage solid waste. Attached is Newsletter No. 2 and a Notice of the upcoming Public Information Centre. The Newsletter highlights the work completed to date, the current status of the EA, the preferred alternative and the work that will be undertaken in the coming months.

We are anxious to get as much public involvement as possible. Could you please post copies of the attached Notice in prominent locations in your community? Also, if possible we would appreciate having the notice posted on your website. If you would prefer to have one of our staff members post the notices in your community please let me know.

In addition the City is also prepared to attend a Band Council Meeting to provide an update on the work completed to date and the tasks planned for the coming months. Please confirm a date that is suitable.

We look forward to hearing from you and the members of your community.

Regards,



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SSM_Newsletter 05-21-2010.pdf

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
D 705.942.2612
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: May 21, 2010 3:35 PM
To: chiefdeansayers@batchewana.ca; alidstone@batchewana.ca
Cc: Susan Hamilton Beach
Subject: City of Sault Ste. Marie Waste Disposal EA

Good Afternoon Chief Sayers/Agnes,

It has been some time since we last spoke. Our firm is currently assisting the City of Sault Ste. Marie in undertaking their Solid Waste Disposal Environmental Assessment. You may recall that we met and corresponded with you in the spring/summer of 2007 regarding the Waste Disposal Environmental Assessment being undertaken by the City of Sault Ste. Marie.

We are now planning to conduct an open house in the City of Sault Ste. Marie to announce the preferred alternative to manage solid waste. Attached is Newsletter No. 2 and a Notice of the upcoming Public Information Centre. The Newsletter highlights the work completed to date, the current status of the EA, the preferred alternative and the work that will be undertaken in the coming months.

We are anxious to get as much public involvement as possible. Could you please post copies of the attached Notice in prominent locations in your community? Also, if possible we would appreciate having the notice posted on your website. If you would prefer to have one of our staff members post the notices in your community please let me know.

In addition the City is also prepared to attend a Band Council Meeting to provide an update on the work completed to date and the tasks planned for the coming months. Please confirm a date that is suitable.

We look forward to hearing from you and the members of your community.

Regards,



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19 2010 FINA...



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Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
D 705.942.2612
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: May 21, 2010 3:33 PM
To: bcoughlin@twp.prince.on.ca
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Disposal EA

Hi Brianna,

Our firm is currently assisting the City of Sault Ste. Marie in undertaking their Solid Waste Disposal Environmental Assessment.

We are now planning to conduct an open house in the City of Sault Ste. Marie to announce the preferred alternative to manage solid waste. Attached is Newsletter No. 2 and a Notice of the upcoming Public Information Centre. The Newsletter highlights the work completed to date, the current status of the EA, the preferred alternative and the work that will be undertaken in the coming months.

We are anxious to get as much public involvement as possible. Could you please post copies of the attached Notice in prominent locations in your community? Also, if possible we would appreciate having the notice posted on your website. If you would prefer to have one of our staff members post the notices in your community please let me know.

We look forward to hearing from you and the residents of your community.

Regards,



SSM_Newsletter
05-21-2010.pdf



SSM_PICNotice May
19 2010 FINA...

Rick Talvitie, P. Eng.

Manager, Sault Ste. Marie Office

D 705.942.2612

rick.talvitie@aecom.com

AECOM

523 Wellington Street East,

Sault Ste. Marie, Ontario Canada P6A 2M4

T 705.942.2612 F 705.942.3642

www.aecom.com

Talvitie, Rick

From: EnviroOnt [EnviroOnt@tc.gc.ca]
Sent: May 27, 2010 2:51 PM
To: Talvitie, Rick; s.hamiltonbeach@cityssm.on
Subject: Solid Waste Disposal, Sault Ste. Marie, EA 1471
Attachments: NWP_App_Guide_EN.pdf

Thank you for your letter regarding the above referenced environmental assessment. Please in future forward correspondence on this environmental assessment to the undersigned.

We have reviewed the information, and note the following:

Transport Canada is responsible for the administration of the *Navigable Waters Protection Act*, which prohibits the construction or placement of any "works" in navigable waters without first obtaining approval. If any of the related project elements or activities related may cross or affect a potentially navigable waterway, you are requested to prepare and submit an application in accordance with the requirements as outlined in the attached Application Guide. Any questions about the NWPA application process should be directed to the Navigable Waters Protection Program at 1-866-821-6631 or NWPontario-PENontario@tc.gc.ca.

<<NWP_App_Guide_EN.pdf>>

Transport Canada is also responsible for the administration of the *Railway Safety Act* to ensure the safe operation of railways. The Act addresses the construction and alteration of railway works, the operation and maintenance of railway equipment and certain non-railway operations affecting railway safety. Pursuant to the Notice of *Railway Works Regulations*, the project proponent will be required to give notice of the proposed project to the following persons: the railway whose line is to be crossed, the municipality in which the crossing works are to be located and the authority having responsibility for the road in question. An approval may be required for certain railway works that depart from engineering standards set under the regulations or where an objection has been filed against the work. Any questions about the *Railway Safety Act* and the Notice of *Railway Works Regulations* should be directed to Luciano Martin, Manager of Engineering, at (416) 973-2326.

You may also wish to review the Act and Regulations by accessing the following Internet sites:


Railway Safety Act: <http://www.tc.gc.ca/acts-regulations/acts/1985s4-32/menu.htm>

Notice of Railway Works Regulations: <http://laws.justice.gc.ca/en/SOR-91-103/>

Please note that certain approvals under the *Navigable Waters Protection Act* or *Railway Safety Act* trigger the requirement for a federal environmental assessment under the Canadian Environmental Assessment Act. You may therefore wish to consider incorporating CEAA requirements into your provincial environmental assessment.

Regards,

Environmental Assessment Coordinator
Transport Canada, Ontario Region
Environment & Engineering (PHE)
4900 Yonge St., 4th Fl., Toronto, ON M2N 6A5
Email: EnviroOnt@tc.gc.ca

 Please consider the environment before printing this email.



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Introduction

The **Navigable Waters Protection Act (Act)** protects the public right to boat freely on waterways in Canada. The Act and its regulations:

- Require the pre-approval of structures (known as **works**) to be placed in, on, over, under, through, or across any navigable waters; and
- Provide a legal framework for dealing with obstacles and obstructions to navigation.

The Act was updated on March 12, 2009. You can find the Act and its regulations online at:
<http://laws.justice.gc.ca/en/N-22/>

Transport Canada's (TC) **Marine Safety, Navigable Waters Protection Program** works to:

- Protect the public right of navigation
- Ensure safety for the shared use of Canada's waterways; and
- Consider any impacts proposed works might have on the environment.

Navigable Waterways are any natural or man-made bodies of water (rivers, lakes, canals, etc.) that can be used by vessels to work, move freight, travel or enjoy pleasure activities – even if they were created for purposes other than navigation.

Get the Facts

What is a Minor Water?

Before starting construction, repairs or changes, owners should find out if their work is on a minor water or a navigable waterway. To determine if the waterway is minor you may refer to the *Minor Works and Waters (Navigable Waters Protection Act) Order* at <http://www.tc.gc.ca/marinesafety/oep/nwpp/minorworks/menu.htm>.

What is a work?

A work includes:

- Any man-made structure, device or thing, temporary or permanent, that may limit or prevent boating; and
- Any fill dumped into, or materials being dug from, the bed of navigable water that may limit or prevent boating.

What is a minor work?

Some works, called minor works, that **will not limit or prevent boating**, do not require TC approval. However, they must be placed, built and maintained according to the Minor Works and Waters (NWPA) Order. If they aren't, owners may be fined.

Minor works include:

- Winter Crossings
- Water Intakes
- Pipeline Crossings
- Docks & Boathouses
- Submarine (underwater) Cables
- Aerial Cables
- Erosion Protection Works
- Dredging

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Get Your Project Approved

All works, except those listed as minor works under the *Order*, must be approved by Transport Canada. TC approval is proof that your planned work will not limit or prevent boating.

Contact TC for approval **well before your desired start date**. This will give us time to review your project and respond.

Remember: You must request and get any local building or other permits you may need **before** you begin your work.

Approval process

Step One: Apply.

1. Prepare a letter or application form that includes the information set out in Table 1, below;
2. Include a map and directions indicating the exact location of the worksite;
3. Include onsite, upstream and downstream photos of the waterway.
4. Mail your letter and supporting documents to:

Transport Canada, Navigable Waters Protection Office
100 Front Street South,
Sarnia, Ontario N7T 2M4

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**Table 1 - Information and Application Requirements**

Please provide as much of the following information as possible as missing information may delay your review. Pay particular attention to the mandatory information listed in Section D - Summary of Supporting Documents.

Application Section A:	<ul style="list-style-type: none">• Your name and address, phone, number, fax and email address.• Contractor/consultant/agent (if any) address, phone, number, fax and email addresses
Application Section B Work Site Location and Description:	<ul style="list-style-type: none">• Legal site description (lot, concession, county/township or city/town, etc) and 911 address (if any).• Name of the owner(s) of property immediately upland to the work site (note that you may require written consent to do the work).• <u>Six copies</u> of a key map showing the exact location of the work site.• <u>One copy</u> of written directions to the site.• The latitude and longitude of the work site, if known.• Legal and/or local name of waterway.• Photos taken at, upstream and downstream of the work site.• Canadian Hydrographic Service (CHS) navigation chart number (if known).• National Traffic System (NTS) topographic map numbers (if known).• A photocopy of your water lot lease or permit.• The ordinary high water mark, the normal summer water elevation or chart datum at the work site (if known).• Average width and depth of the waterway at the work site.• Known boating uses of the waterway, i.e. traveling, moving freight, work or pleasure.
Application Section C Description of Work:	<ul style="list-style-type: none">• A detailed description of the work, including:<ul style="list-style-type: none">○ method of construction;○ equipment and material used;○ operating plans;○ debris management plans; and○ any temporary works (berm, cofferdam, road, signage, portage, etc) required for the project.• <u>Six copies</u> of drawings of the work (top-down plan view and side-on profile view) including:<ul style="list-style-type: none">○ structure dimensions;○ shoreline shape;○ water depths; and○ near by structures.• Any Environmental Assessment documents and information you have.• Your proposed building or project schedule (with start and end dates).• Status of the work at the time of application (existing, proposed, rebuilding, repairs, etc).• Original date the existing work was constructed, if this is a repair or rebuild, and the date of any previous approvals.• Name of any other agencies you have submitted these plans to.
NOTE	Transport Canada must receive at minimum the following information to process your application. Missing information may lead to delays.

(Continued)



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Table 1 - Information and Application Requirements

Application Section D	<ul style="list-style-type: none">❑ Your name, address, phone, number, fax and email address.❑ If an agency is acting on your behalf, provide Agency Applicant and name, address, phone, number, fax and email address.
Summary of Supporting Documents:	<ul style="list-style-type: none">❑ Legal site description (lot, concession, county/township or city/town, etc). If the work site has been assigned a 911 address, provide this as well.❑ <u>Six copies</u> of a key map showing the exact location of the work site.❑ A photocopy of your water lot lease or permit.❑ Photos taken at, upstream and downstream of the work site.❑ The ordinary high water mark, the normal summer water elevation or chart datum at the work site.❑ A detailed description of the work, including method of construction, equipment and material used, operating plans, debris management plans and any temporary works (berm, cofferdam, road, signage, portage, etc) required for the project.❑ <u>Six copies</u> of drawings of the work (top-down plan view and side-on profile view) including structure dimensions, shoreline shape, water depths and near by structures.

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Step Two: Wait for a response.

Transport Canada reviews proposed works based on information you provide, on-site assessment of the waterway and potential impacts to navigation. Once its review is complete, TC may issue an approval if the impacts to navigation can be lessened. The approval may include conditions you must meet.

The complete Transport Canada review can take some time because you may be asked to:

- Provide more information;
- Meet a Transport Canada official on site;
- Deposit plans after confirmation to proceed,
- Notify the public of the proposed work and allow one month for comments, and
- Support an environmental assessment of the work as per the *Canadian Environmental Assessment Act (CEAA)*.

Step Three: Receive a response.

If / When you receive an Approval Document, you must:

- Read it carefully. It may include conditions that you must meet or time limits you must respect.
- Keep a copy of the Approval Document on the work site at all times.
- Meet all conditions of approval.
- Expect a TC official inspect your site to make sure you are meeting all conditions of approval.
- Write to TC when your work is done.

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Table 2 – The Approval Process – Step by Step

1. Verify if the waterway is subject to the *Minor Works and Waters (Navigable Waters Protection Act) Order* or is a navigable waterway.
2. Verify if the work is subject to the *Minor Works and Waters (Navigable Waters Protection Act) Order* or is subject to application and review under the Act.

3. Complete and sign the application form and send it to Transport Canada with supporting documents listed in Table 1 (above) to the following address:

Transport Canada, Navigable Waters Protection Office
100 Front Street South, Sarnia, Ontario N7T 2M4

Include six copies of the drawings and key map showing location of the work site.

4. Be prepared to attend an on-site meeting with Transport Canada officials, or if asked, to provide more information.
5. If notified by Transport Canada, deposit one set of drawings and the supporting documents at the nearest Land Registry or Land Titles Office. Have one set of drawings certified by the Registrar and return it to Transport Canada with the Registrar's certificate, signature and deposit number.
6. If notified by Transport Canada, advertise your work project in the legal section, if possible. We will send you a sample ad, complete instructions and a blank Statutory Declaration of Advertising. When you have advertised your project:
 - Have the "Statutory Declaration of Advertising" witnessed by a Commissioner of Oaths and return it to Transport Canada with 1 copy of the advertisements.
 - Allow one month for comments from the public before starting to build.

NOTE: The advertising process may have to be repeated if done too soon, if information is missing or if project plans change.

7. If asked, provide Transport Canada with any additional information needed for the environmental assessment.
8. When you receive your Approval from Transport Canada, read it carefully and note any conditions of approval. Also, look for any time limits for starting and completing the work as well as how long the Approval Document is valid.
9. Build your work, fulfilling all conditions of the Approval Document. Keep a copy of the Approval on the work site at all times during construction. Transport Canada officials may conduct on-site inspection(s) to ensure conditions are being met.
10. Notify Transport Canada in writing when the work is completed.
11. TC officials may inspect your finished work to make sure that it is built according to plan and meets the conditions of approval. You must:
 - Meet all conditions of approval;
 - Take any measures required by the environmental assessment.
 - Make sure to keep the work up to the standard of its approved plans.

Notes: You are responsible to:

- a. Complete the work according to plans approved by Transport Canada;
- b. Fulfill conditions of approval, as set out in the Approval Document issued by Transport Canada;
- c. Implement any environmental protection measures identified under *Canadian Environmental Assessment Act*.

NOTE: This guide explains the Navigable Waters Protection Act application and approval process. If anything in this Guide differs from the Act, comply with the Act.

For further information about Transport Canada's Navigable Waters Protection Program please feel free to visit us at <http://www.tc.gc.ca/eng/marinesafety/oep-nwpp-menu-1978.htm>.

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Navigable Waters Protection Act Request for Project Review

This is my first request for a NWPP review for this project.

Yes ☐

No ☐

Section A	Your Contact Information	
	Your full name:	
	Mailing Address:	
	Street Address (if not the same):	
	City/Town:	Province/Territory: Postal Code:
	Tel. No. (Home):	Tel. No. (Work): Tel. No.: (Other)
	Fax No:	E-mail Address:
	Name of Contractor/Consultant/Agent (if any):	
	Mailing Address:	
	Street Address (if not the same):	
City/Town:		Province/Territory: Postal Code:
Tel. No. (Home):		Tel. No. (Work): Tel No. (Other)
Fax No:		E-mail Address:
Section B	Site location and description	
	Name of Nearest City, Town, Village:	Municipality / District / County:
	Legal site description (lot, concession, county/township, city/town, etc.) and 911 address, if any:	
	Access road or directions to Proposed Work Site (route number, highway series number or street name/number if urban area, etc.)	
	Legal and/or local name of waterway:	Description of waterway (Note: Enclose photographs):
	CHS navigation chart and NTS topographic map numbers (if available):	Water lot Lease or Permit (if any):
Section C	Average width and depth of waterway at or near the project site:	
	Known navigation and waterway use (recreational and commercial):	
	Basic Project Description	
	What is the proposed project? (<i>dock, dam, bridge, aquaculture site, etc.</i>) Note: <u>You must attach detailed description and plans of work.</u>	
Section D	Proposed project Start and End dates:	Status of the Project (circle <u>one</u>): New Existing Addition Repair Other (explain)
	Building plans (describe methods, temporary works, etc.):	
	Required Supporting Documents and Information	
Section D	Documents:	Information:
	<ul style="list-style-type: none"> A detailed written description of your project A Map showing exactly where the project site is. Drawings – plan view (top down) and profile view (side on) including structure dimensions, shoreline shape and any nearby structures. Environmental Assessment documents and information. Onsite, upstream and downstream photos. 	<ul style="list-style-type: none"> Description of any temporary works related to the project (i.e. portage, signage, berms, cofferdams, roads, etc.). Original building date of an existing work and any previous approvals. Latitude and Longitude of the work site. Upland property owner's name (if you are not the upland property owner, you may need their written consent) Names of other agencies you have submitted plans to.
Date:	Signature:	
For NWPP Use only:		
NWPA #:		



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Talvitie, Rick

From: Talvitie, Rick
Sent: May 28, 2010 4:31 PM
To: 'cbarry@gardenriver.org'
Cc: 's.hamiltonbeach@cityssm.on.ca'
Subject: Re: City of Sault Ste. Marie Waste Disposal EA

Hi Caroline,

This date will work on our end. Please confirm and we look forward to meeting with Council.

Rick.....Sent via Blackberry

----- Original Message -----

From: Caroline Barry <cbarry@gardenriver.org>
To: Talvitie, Rick
Cc: Chief Sayers <sayers1@gardenriver.org>
Sent: Thu May 27 10:46:35 2010
Subject: Re: City of Sault Ste. Marie Waste Disposal EA

Rick: The next working meeting of Council is Tuesday, June 8, 2010 at 6 pm which is after the PIC. I will put you on the agenda tentatively for 6 pm. Let me know if this works for you and how long the presentation will take.

Thanks, Caroline.

Talvitie, Rick wrote:

>
> Hi Caroline,
>
> It has been some time since we last spoke. Our firm is currently
> assisting the City of Sault Ste. Marie in undertaking their Solid
> Waste Disposal Environmental Assessment. You may recall that we
> attended a Band Council meeting and subsequently conducted a public
> information centre in your community on June, 2007.
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> We are now planning to conduct an open house in the City of Sault Ste.
> Marie to announce the preferred alternative to manage solid waste.
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> Information Centre. The Newsletter highlights the work completed to
> date, the current status of the EA, the preferred alternative and the
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> staff members post the notices in your community please let me know.
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> In addition the City is also prepared to attend a Band Council Meeting
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> We look forward to hearing from you and the members of your community.
>

> Regards,
>
> <<SSM_PICNotice May 19 2010 FINAL.pdf>> <<SSM_Newsletter
> 05-21-2010.pdf>>
>
> ***Rick Talvitie, P. Eng.*
> Manager, Sault Ste. Marie Office
>
> D 705.942.2612
>
> rick.talvitie@aecom.com <<mailto:rick.talvitie@aecom.com>>
>
> ***AECOM*
> 523 Wellington Street East,
> Sault Ste. Marie, Ontario Canada P6A 2M4 T 705.942.2612 F
> 705.942.3642 www.aecom.com <<http://www.aecom.com>>
>

May 25, 2010

Susan Hamilton Beach
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive
Sault Ste. Marie, ON P6A 5N1

Dear Mrs. Hamilton Beach:

Project No: 60117627

**Regarding: Solid Waste Disposal Environmental Assessment (EA)
Report to Council – May 31, 2010**

Late in 2009, the City of Sault Ste. Marie endorsed a contract with The Elementa Group (Elementa) for the supply of at least 12,500 metric tonnes of municipal solid waste for a minimum period of 10 years. The contract is significant in that it will assist the City in managing its problem of diminishing solid waste disposal capacity. The City welcomes the Elementa technology to Sault Ste. Marie and wishes them well. The proposed plant will have a maximum capacity of 35,000 tonnes per year and will likely accept waste from outside of Sault Ste. Marie.

The Elementa Plant will be unable to accept all waste currently being landfilled at the Fifth Line site. The City is currently managing approximately 60,000 to 70,000 tonnes per year (inclusive of contaminated soil and sewage sludge). Furthermore the Elementa process will generate some residual waste that will require landfilling. The City recognizes that with any new waste management technology, in its infancy, there are risks associated with its implementation. The City intends to mitigate these risks by ensuring an alternative means is available for the disposal of residual waste. The City is moving forward with its Solid Waste Disposal Environmental Assessment to ensure provisions are in place to manage any residual waste that is not diverted, or processed by Elementa.

We have reached a milestone in our Solid Waste Disposal Environmental Assessment. The results of the Environmental Assessment work completed to date suggest that landfill remains the most appropriate disposal option for the City's residual waste. Landfills can be designed and operated to comply with regulations and policies; landfill gas can be collected and recovered to generate electricity; landfills can manage the entire residual waste stream, are flexible to changes in waste quality and quantities, and is cost effective. The flexibility of landfilling is particularly important to Sault Ste. Marie given the waste supply agreement that has been endorsed. An operating landfill site will ensure disposal capacity is available in the event that the implementation of the Elementa technology is delayed or fails to meet intended targets.

We will be conducting a Public Information Centre on June 3, 2010 at the Civic Centre to provide stakeholders and the public with an opportunity to discuss the project progress and have their questions or concerns addressed. Further details regarding the Public Information Centre and EA are included in the attached Newsletter.

Given that there has been a significant history to the waste management planning work we have summarized, in tabular format, the key activities and accomplishments that have been completed over the last decade.

Description	Date
<p>A comprehensive Waste Management Planning Study was initiated by the City of Sault Ste. Marie. The intent of the study was to provide the City with direction on all aspects of its solid waste management programs for the next 25 to 40 years. The study included four phases:</p> <ul style="list-style-type: none"> • Identification of the preferred waste diversion system • Identification of the preferred waste disposal system • Development of a business and implementation plan and • Preparation of an Environmental Assessment Terms of Reference <p>The study was largely initiated to address the low waste diversion rate and the diminishing waste disposal capacity at the City landfill on Fifth Line. A series of reports were generated which are described below.</p>	Summer 2000
<p>Current Waste Management System Summary Report – The study inventoried and summarized current waste management programs including costs and revenues. This report provided a starting point for the waste management planning study and highlighted the need to improve upon the 9% residential waste diversion rate.</p>	September 2000
<p>Comprehensive Residential Waste Composition Report – This study collected, separated and categorized wastes setout curbside in a portion of the City. This study provided a basis for identifying the types and quantities of recyclables that are included in the municipal waste stream and the level of diversion that could potentially be achieved.</p>	March 2001
<p>Organic Waste Diversion Report – This study inventoried residential, industrial, commercial and institutional organic waste quantities and types and identified management options. Organic wastes represent a significant proportion of the waste stream that could potentially be processed and diverted.</p>	April 2001
<p>Alternative Waste Diversion/Collection Systems Report – Used the data</p>	June 2001

Description	Date
collected in the three foregoing studies to identify alternative waste diversion programs and the quantities that could potentially be diverted. Council endorsed an aggressive waste diversion strategy following the release of this report.	
An RFP was issued for enhanced curbside recyclables collection. A contract was awarded that included incentives to encourage the Contractor to promote the program.	Summer 2002
Waste Collection and Disposal Alternatives Report – a study was completed to explore alternatives for the disposal of residual solid waste. The study included public input and was completed to focus the future Environmental Assessment work on the most practical alternatives that were also supported by stakeholders and the general public.	July 2002
Co-composting Pilot Study - City initiates a study to investigate the feasibility of composting various types of organic feedstocks including municipal biosolids (sewage sludge), leaf and yard waste, and kitchen wastes. The intent of the study was to look at the feasibility of improving cost efficiencies by processing a variety of organic feedstocks concurrently.	Summer 2002 – report completed in February, 2004
Business and Implementation Plan – The study was completed to identify the costs of the existing and proposed waste management programs and explore strategies to recover those costs (bag limits, bag fees, increased tipping and gate fees) – Council endorsed the proposed fee structure in July 2003.	February 2003
DRAFT “Focused” Terms of Reference – this document was prepared to outline the steps to be taken in completing a “focused” environmental assessment that would examine the environmental impacts associated with landfill mining/expansion. Public consultation was completed on this document.	June 2003
As a result of a court decision the Ministry of the Environment issued a letter to the City indicating that the MOE no longer has the authority to approve “Focused” Terms of Reference.	September 2003
City meets with the MOE to discuss options regarding the Terms of Reference document that has already been prepared and decides to revise it to reflect a full Environmental Assessment in lieu of a “focused” EA. (ie. the EA must consider all reasonable alternatives rather than focusing on landfill	December 2003

Description	Date
mining and expansion).	
Revise and submit a Terms of Reference to the MOE for approval. Approval is granted in September 2005.	July 2005
City proceeds with significant enhancements to Multi-residential recyclables collection.	Over several years
Collection of leaf and yard wastes is expanded from three collections in the fall to bi-weekly collections throughout the growing season. The feedstock is composted at the City landfill and the processed materials are incorporated into City projects.	2005
AECOM/Dillon selected by the City to undertake an EA – work is initiated to identify and evaluate functionally different ways of managing waste.	Summer 2006
Public and First Nations input is solicited on the alternatives being considered. The input received is incorporated into the evaluation.	Summer 2007
The Elementa Group (formerly Enquest Power) initiates a steam reformation pilot project (ie. maximum capacity of 3 tonnes/day) to demonstrate the capabilities of their technology.	2007
Elementa requests background information regarding the EA to allow them to comment on the work completed to date. Some First Nations communities also request additional time for comment. City decides to allow additional time for this public input.	Fall 2007
Elementa proceeds with the construction and operation of a steam reformation pilot plant which is intended to convert solid municipal waste into a char and syngas that can be used to produce electricity. Council requests that Elementa be given more time to allow their project to mature. Over a three year period (2007-2009) the pilot plant processes limited quantities of MSW and the syngas is burned in a flare. Environmental testing is completed and meets MOE requirements.	2007 - 2009
A waste supply agreement is endorsed by Elementa and the City. The City commits a minimum 12,500 tonnes per year of municipal solid waste for a minimum period of ten years. The delivery of waste to Elementa is	Late 2009

Description	Date
scheduled to commence in April 2011.	
Elementa proceeds with an environmental assessment screening process to facilitate the construction of a new 35,000 tonne per year steam reformation plant on a Greenfield site on Woodpark Court. Construction is to be initiated in the summer of 2010.	2010
It is recognized that the Elementa technology is in its infancy and there are some risks associated with its implementation. Furthermore it will be unable to process the entire waste stream once it reaches its full capability (ie. approximately 60,000 to 70,000 tonnes are landfilled each year and the Elementa facility will have a capacity of 35,000 tonnes per year). The processing will also generate some wastes that will have to be landfilled. The City moves forward with its Waste Disposal Environmental Assessment to address the diminishing waste disposal capacity at the City landfill. A prudent approach is adopted in establishing the quantities of waste that will have to be managed in the future. Waste quantity projections are developed which reflect the entire residual waste stream.	2010
The City plans to conduct a Public Information Centre to announce the preferred waste management alternative; increased waste diversion and landfilling of residual waste.	June 3, 2010

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P.Eng.
Branch Manager
rick.talvitie@aecom.com

RT:ta
Encl.

Minutes of Meeting

Date of Meeting	June 8, 2010	Start Time	Project Number 60395
Project Name	Solid Waste Management Environmental Assessment		
Location	Garden River First Nation		
Regarding	Solid Waste Management EA in Sault Ste. Marie		
Attendees	Mrs. S. Hamilton Beach, City of Sault Ste. Marie Engineering Mr. R. Talvitie, AECOM Garden River First Nation Council Garden River First Nation Staff		
Distribution			
Minutes Prepared By	Rick Talvitie		

PLEASE NOTE: If this report does not agree with your records of the meeting, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

	Action
1.0 INTRODUCTION	
<p>Rick Talvitie "RT" (AECOM) and Susan Hamilton Beach "SHB" (City Engineering) attended a Garden River First Nation Band Council working meeting on June 8, 2010. The objectives of the visit included:</p> <ul style="list-style-type: none">• Provide an update on waste management planning in the City;• Provide an overview of the Environmental Assessment process ;• Review the solid waste management alternatives considered during the Environmental Assessment process;• Present the preferred waste management alternative;• Provide the next steps in the Environmental Assessment process; and• Answer questions. <p>Prior to initiating the power point presentation a request was made by a Band Councillor to confirm that the presentation represents "information sharing" and is not intended to be "consultation". RT explained that the presentation is intended to be part of the City's consultation process for this project. The intention is to provide Band Council with the necessary information regarding the Waste Management Environmental Assessment to assist them in providing comments on the proposed undertaking.</p> <p>Band Council members reiterated that they are prepared to listen to the presentation provided the presenters acknowledge that the session is being undertaken to share</p>	<p>Info.</p> <p>Info.</p> <p>Info.</p>

<p>information only. SHB noted that although similar undertakings in the City of Sault Ste. Marie are considered consultation she acknowledged that the minutes can reflect that we are engaged in information sharing.</p>	
<p>2.0 EXISTING LANDFILL OPERATIONS</p> <p>Prior to the power point presentation a Band Councilor noted that GRFN has concerns with potential adverse impacts the existing landfill may have on the Root River. The Root River is located adjacent to the City's landfill and ultimately discharges to the St. Mary's River which flows through GRFN.</p> <p>RT noted that this is an important question as it provides an opportunity to provide Band Council with a better understanding of the controls and monitoring activities at the City's landfill. RT explained that the City's landfill is an engineered site with the following environmental controls and monitoring activities:</p> <ul style="list-style-type: none"> • Groundwater flows from the north to the south, south east and south west. A leachate collector is located along the south and south eastern periphery of the site and a series of 10 purge wells are located along the western boundary (ie. downstream end of the landfill) which collect potentially contaminated groundwater (ie. leachate) and conveys it to a pumping station and ultimately to the City's west end sewage treatment plant. • To assess groundwater quality compliance at property boundaries some 70 to 80 ground water monitoring wells have been established within and adjacent to the site to assess ground water quality. Approximately 40 – 50 of these wells are sampled and analyzed three times each year and a report is prepared annually documenting the results. The site is required to meet stringent Ministry of Environment compliance criteria at the property boundary. • Five surface water stations are also sampled and analyzed several times each year. Two of the stations are located upstream and three are downstream of the site. The results are compared to the Provincial Surface Water Quality Objectives and documented each year in the annual report. • The aquatic biological community is also sampled at five locations (2 upstream and 3 downstream) to assess the health of these communities. The upstream results are compared with the downstream results. • The existing passive landfill gas flares are presently being upgraded to an active landfill gas collection system. The methane gas will be burned in a central flare and may be used to generate electricity in the future. <p>The information gathered each year is analyzed and a report is submitted to the Ministry of Environment.</p>	<p>Info.</p> <p>Info.</p> <p>Info.</p>

<p>3.0 WASTE MANAGEMENT EA</p> <p>SHB and RT completed a power point presentation to update Band Council on the status of the City's Waste Management Environmental Assessment. A copy of the power point slides is attached for reference.</p> <p>The following comments/questions were noted:</p> <ul style="list-style-type: none"> • Concerned with impacts to surface water quality as outlined in Section 2 of this meeting report. • Suggested that the City/AECOM contact Sue Chiblow (sue@coo.org) of Chiefs of Ontario. Sue's role is to assist Ontario First Nations in identifying potential concerns with Environmental projects. <p>RT noted that the next phase of the project will be completed throughout the summer and fall. A Public Information Centre or workshop will likely be conducted in the City of Sault Ste. Marie in the fall to solicit input on alternative methods of landfilling. RT noted that a similar open house could be conducted in Garden River if desired.</p> <p>SHB and RT thanked Band Council for their time and interest in the project.</p>	<p>AECOM</p> <p>AECOM</p> <p>Info.</p> <p>Info.</p>
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June 15, 2010

To Ms. Susan Hamilton Beach

RE: Solid Waste Disposal Environmental Assessment

Thank you for circulating Ontario Realty Corporation (ORC) on your Notice of Public Information Centre. The ORC is the strategic manager of the government's real property with a mandate of maintaining and optimizing value of the portfolio, while ensuring real estate decisions reflect public policy objectives of the government.

As you may be aware, ORC is responsible for managing real property that is owned by the Ministry of Energy and Infrastructure (MEI). Our preliminary review of your notice and supporting information indicates that ORC-managed property may be directly in the study area. As a result, your proposal may have the potential to impact properties and/or the activities of tenants present on ORC-managed lands. Please note that as no map has been provided, ORC cannot provide detailed information about the location of ORC managed properties. More information required in order to determine if ORC managed lands will be impacted.

Potential Negative Impacts to ORC Tenants and Lands

General Impacts

Negative environmental impacts associated with the project design and construction, such as the potential for dewatering, dust, noise and vibration impacts, and impacts to natural heritage features/habitat and functions, should be avoided and/or appropriately mitigated in accordance with applicable regulations best practices and Ministry of Natural Resources (MNR) and Ministry of the Environment (MOE) standards. Avoidance and mitigation options that characterize baseline conditions and quantify the potential impacts should be present as part of the EA project file. Details of appropriate mitigation, contingency plans and triggers for implementing contingency plans should also be present.

Impacts to Land holdings

Negative impacts to land holdings, such as the taking of developable parcels of ORC managed land or fragmentation of utility or transportation corridors, should be avoided. If the potential for such impacts is present as part of this undertaking, you should contact the undersigned to discuss these issues at the earliest possible stage of your study.

If takings are suggested as part of any alternative these should be appropriately mapped and quantified within EA report documentation. In addition, details of appropriate mitigation and or next steps related to compensation for any required takings should be





present. ORC requests circulation of the draft EA report prior to finalization if potential impacts to ORC-managed lands are present as part of this study.

Heritage Management Process & Class Environmental Assessment (EA) Process

Should the proposed activities impact cultural heritage features, on ORC managed lands, a request to examine cultural heritage issues which can include the cultural landscape, archaeology and places of sacred and secular value could be required. The Ontario Realty Corporation Heritage Management Process should be used for identifying and conserving heritage properties in the provincial portfolio (this document can be downloaded from the Heritage section of our website: <http://www.ontariorealty.ca/What-We-Do/Heritage.htm>). Through this process, ORC identifies, communicates and conserves the values of its heritage places. In addition, the Class EA ensures that ORC considers the potential effects of proposed undertakings on the environment, including cultural heritage.

Potential Triggers Related to MEI's Class EA

The ORC is required to follow the MEI Class Environmental Assessment Process for Realty Activities Not Related to Electricity Projects (MEI Class EA). The MEI Class EA applies to a wide range of realty and planning activities including leasing or letting, planning approvals, disposition, granting of easements, demolition and property maintenance/repair. For details on the ORC Class EA please visit the Environment and Heritage page of our website found at <http://www.ontariorealty.ca/AssetFactory.aspx?did=2240>

If the MEI Class EA is triggered, and deferral to another ministry's or agency's Class EA or individual EA is requested, the alternative EA will be subject to a critical review prior to approval for any signoff of a deferral by the proponent. The alternative EA needs to fulfill the minimum criteria of the MEI Class EA. When evaluating an alternative EA there must be explicit reference to the corresponding undertaking in the MEI Class EA (e.g., if the proponent identifies the need to acquire land owned by MEI, then "acquisition of MEI-owned land", or similar statement, must be referenced in the EA document). Furthermore, sufficient levels of consultation with MEI's/ORC's specific stakeholders, such as the Ontario Ministry of Natural Resources, must be documented with the relevant information corresponding to MEI's/ORC's undertaking and the associated maps. In addition to archaeological and heritage reports, a Phase I Environmental Site Assessment (ESA), on ORC lands should also be incorporated into the alternative EA study. Deficiencies in any of these requirements could result in an inability to defer to the alternative EA study and require completing MEI's Class EA prior to commencement of the proposed undertaking.

In summary, the purchase of MEI-owned/ORC-managed lands or disposal of rights and responsibilities (e.g. easement) for ORC-managed lands triggers the application of the





MEI Class EA. If any of these realty activities affecting ORC-managed lands are being proposed as part of any alternative, please contact the Sales and Marketing Group through ORC's main line (Phone: 416-327-3937, Toll Free: 1-877-863-9672), and contact the undersigned at your earliest convenience to discuss next steps.

Specific Comments

If an EA for this project is currently being undertaken and the undertaking directly affects all or in part any ORC-managed property, please send the undersigned a copy of the Individual EA report and allow sufficient time (minimum of 30 calendar days) for comments and discussion prior to finalizing the report to ensure that all MEI Class EA requirements can be met through the EA study.

Concluding Comments

Thank you for the opportunity to provide initial comments on this undertaking. Please ensure that mapping is provided to ORC at your earliest convenience to determine if ORC managed properties are in the study area. If you have any questions on the above I can be reached at the contacts below.

Sincerely,

Lisa Myslicki
Environmental Coordinator
Ontario Realty Corporation - Professional Services
1 Dundas Street West,
Suite 2000, Toronto, Ontario
M5G 2L5
(416) 212-3768
lisa.myslicki@ontariorealty.ca



Talvitie, Rick

From: Talvitie, Rick
Sent: Monday, June 21, 2010 2:14 PM
To: sue@coo.org
Cc: cbarry@gardenriver.org; Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Management EA

Hi Sue,

The City of Sault Ste. Marie is developing a Solid Waste Management Plan to determine the preferred way to address the waste management needs within the existing service area comprising of the City of Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve over the next 20 to 40 years. The Solid Waste Management Plan will include opportunities for both waste diversion and waste disposal.

The City of Sault Ste. Marie is located adjacent to Batchewana First Nation and Garden River First Nation.

We recently attended a Garden River First Nation Band Council meeting to update them on the progress of the Waste Management Environmental Assessment. During the meeting it was suggested that you may be able to assist GRFN in reviewing and commenting on the documentation that has been prepared to date.

Please let me know if you would like us to forward relevant project documentation for your review.

Much appreciated.

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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523 Wellington Street East,
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Talvitie, Rick

From: Talvitie, Rick
Sent: June 24, 2010 11:58 AM
To: 'chiefdeansayers@batchewana.ca'; 'alidstone@batchewana.ca'
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment (EA)

Good Afternoon Chief Sayers/Agnes,

I am just touching base with you to let you know that we recently attended at GRFN Band Council meeting to update them on the progress of the City's Waste Management Environmental Assessment study.

I believe the session was informative and we would like to extend an offer to complete a similar presentation for your Band Council members. The presentation would focus on the progress of the Waste Management EA and the monitors and controls that are present at the existing landfill to mitigate off-site impacts.

Also, in 2007 when we met with you regarding this study, you noted the waste management planning process would be brought to BFN council's attention on August 21, 2007 with the recommendation to proceed with a community brainstorming session coordinated by your technical people. Was the brainstorming session completed? Could you share the results with us?

Thanks,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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Talvitie, Rick

From: Talvitie, Rick
Sent: June 25, 2010 2:28 PM
To: cbarry@gardenriver.org
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: 60395 jun 8 MEM re GRFN presentation.pdf

Hi Caroline,

I just wanted to thank Band Council for allowing Susan and I to attend the June 8th Band Council Working meeting to update them on the progress of the City's Waste Management Environmental Assessment. We have attached for you information and reference our meeting notes that we prepared following the meeting. We hope that our attendance proved to be beneficial and we will be touching base again in the fall.

If there are any questions or further comments that you would like us to consider please forward them to my attention.

In the meantime we will forward some information/documentation to Sue Chiblow for her consideration.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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Minutes of Meeting

Date of Meeting	July 28, 2010	Start Time	9:00 a.m.	Project Number	60395
Project Name	City of Sault Ste. Marie Waste Management Plan				
Location	AECOM Boardroom				
Regarding	City's Waste Management Plan				
Attendees	Sue Chiblow, Chiefs of Ontario Susan Hamilton Beach, City of Sault Ste. Marie Engineering Rick Talvitie, AECOM				
Distribution	All in attendance				
Minutes Prepared By	Rick Talvitie				

PLEASE NOTE: If this report does not agree with your records of the meeting, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

		Action
1.0	RT welcomed Sue and thanked her for her attendance. RT provided a historical summary of the tasks and activities that the City has completed in preparing its Waste Management Plan. A copy of the summary was provided to Sue at the meeting. In addition, a copy of the City of Sault Ste. Marie Environmental Assessment webpage was also provided to Sue together with the link to access the webpage. Various background reports are available on the webpage for downloading and review. Sue indicated that there is no need to provide hardcopies of these reports as they can be accessed from the webpage and she does not have the time to read all of the reports given her responsibilities acting for numerous First Nation communities.	Info.
2.0	RT noted that to-date the principle concern that has been raised by Garden River First Nations is surface water quality. Their concern relates to the location of the existing landfill in close proximity to Root River. Root River ultimately flows to the St. Mary's River which flows through Garden River First Nations.	Info.
3.0	RT and SHB provided an overview of the environmental controls present at the existing landfill site. The groundwater monitoring well network, the purge wells, and the leachate collector along the south and south-eastern portion of the landfill site were highlighted. It was noted that approximately 40 to 45 groundwater monitors are sampled 3 times annually to allow interpretation of	

	groundwater quality and groundwater movement. The groundwater quality results are compared to background water quality and are also compared to the MOE's reasonable use criteria which are more stringent than drinking water quality criteria.	Info.
4.0	The surface water quality monitoring program and benthic sampling program were also reviewed during the meeting. The surface water quality results downstream of the landfill are compared to results upstream of the landfill and also to Provincial Surface Water Quality Criteria. The benthic sampling is used to determine the health of the benthic community in reaches of the creeks and rivers upstream and downstream of the landfill site.	Info.
5.0	SC questioned why purge wells were not located along the southeastern portion of the landfill site. RT noted that a horizontal leachate collector has been installed in this area in lieu of purge wells. The horizontal collector is more effective in capturing groundwater than purge wells. The City has not installed a leachate collector along the western boundary due to the extensive depth to the water table along the western boundary and the extensive cost and difficulty in installing a horizontal collector.	Info.
6.0	SC acknowledged that water quality is top of mind with Garden River First Nations. The water is used for both sustenance and recreation. They are concerned with E-Coli levels in surface water. SC questioned whether First Nations communities have been invited to participate in Source Water Protection Planning initiatives. SHB noted that invitation had been extended to First Nations Communities and financial assistance has been offered, however there has been limited involvement of First Nations communities to-date.	Info.
7.0	SC also questioned how hazardous wastes such as pharmaceuticals are managed at the landfill site. SHB noted that the City of Sault Ste. Marie established a hazardous waste depot in 2001. This site accepts various hazardous wastes including pharmaceuticals and has been very successful in terms of the quantity of waste that has been diverted from the landfill site. Randy Roy at the City's Public Works Department has also worked hard to encourage neighbouring communities to utilize the hazardous waste depot for a nominal fee each year. Although RT and SHB were unsure whether Garden River First Nation is participating in program, Randy had contacted them in the past.	Info.
8.0	SC provided an overview of the governing structure for First Nations communities. Technical expertise lies with the tribal councils. In this case, the North Shore Tribal Council provides technical expertise for Garden River First Nations. This Tribal Council includes 7 communities and there is a significant volume of work with limited resources.	Info.
9.0	SC questioned what level of consultation has occurred between the City and Garden River First Nations regarding the Waste Management Environmental	

	Assessment. RT provided an overview of the work completed to-date including consultation with the Terms of Reference document back in 2005 and the various points of contact during the environmental assessment process. RT will prepare a historical summary of the First Nations involvement in the process to-date and will forward it to SC.	AECOM
10.0	SC noted that the First Nations have developed an environmental assessment tool kit and are anxious to train people regarding the use of the tool kit. Ultimately it is hoped to include training for various stakeholders including engineering consultants. SC will forward a CD with the tool kit to SHB or RT. The initial training with the EA tool kit is proposed for the Fall of 2010. The tool kit addresses both traditional knowledge and technical information.	S. Chiblow
11.0	The First Nations have also prepared a Water Declaration which may be of assistance to the City and its Consultant with respect to the water quality concerns that have been raised by GRFN within the context of the EA. SC will forward a copy of the Water Declaration to the City.	S. Chiblow
12.0	SC questioned whether the City of Sault Ste. Marie is involved in the Great Lakes Water Quality Agreement. SHB was unaware whether the City was participating. SC noted that a second meeting is being conducted on August 10 th and 11 th to talk about contaminants.	Info.
13.0	SC strongly believes that it is important for neighbours such as GRFN and Sault Ste. Marie to build on common interests and goals such as sustainability and water quality. SC also noted that a conference is planned regarding water quality on October 5, 6, and 7, 2010. The conference will be held in Bay Mills. SC will bring forward for discussion the possible participation of SHB in the conference.	S. Chiblow
14.0	There was also some discussion regarding the improvements that have been made with the East End Water Pollution Control Plant. SHB extended an offer to conduct a tour of the plant with various First Nations staff and/or elected officials.	Info.
15.0	RT highlighted the next steps in the EA process and noted that the next point of formal consultation is anticipated to be in the Fall of 2010. In the meantime, the study group is always open to comments and questions. Contact information is available on the City of Sault Ste. Marie Waste Management webpage.	Info.
16.0	RT asked for SC's input on the best method or approach to reaching as many First Nation members as possible with the EA materials. SC noted that visual aids are always helpful and the Community has their own newsletter where information can be published. RT noted that the Community newsletter was used in the past to advertise the June, 2007 GRFN Open House.	Info.

17.0	SC also requested a copy of the most current schedule so that the Community has an understanding of the various tasks and activities that will be ongoing in the near future.	AECOM
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Talvitie, Rick

From: Talvitie, Rick
Sent: Friday, July 23, 2010 12:15 PM
To: 'Robert Rattle'
Cc: s.hamiltonbeach@cityssm.on.ca; Maahs, Nancy; Kolli, Karla
Subject: RE: City of SSM Waste Management EA
Attachments: Report to Council - May 31, 2010 - Final.pdf

Hi Robert,

Thank you for your questions. I apologize for the delay in responding to you.

The link to the City's website, provided below, includes a number of background documents related to the waste management planning work completed in the early 2000's and the work completed more recently within the EA process.

In addition to the documents on the website which provide some historical perspective and address many of your questions we have also supplemented this information with some comments below.

Also attached is a recent report to Council that provides a summary of the waste management planning work completed over the last decade.

We hope this information is helpful. We are available to discuss this project with you once you have an opportunity to digest this information.

http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
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From: Robert Rattle [mailto:robert14robert@yahoo.ca]
Sent: June 7, 2010 4:18 PM

To: Talvitie, Rick; s.hamiltonbeach@cityssm.on.ca; Maahs, Nancy
Subject: City of SSM waste disposal EA

Nancy, could you please add my email to the mailing list for future information and notifications for this EA? Thanks. R

Hi Rick/Susan,

I wasn't able to make the open house the other day, and have a few questions about the Solid Waste Disposal EA.

Are the Terms of Reference for this study/project available? Yes the Terms of Reference are posted on the City website – link provided above.

Is there a report describing this project or any results to date available? Yes there are a number of background reports relating to the waste management planning work completed in the early 2000's together with the more recent reports prepared as part of the ongoing Environmental Assessment. These reports are included on the Waste Management EA page on the City's website – link provided above. In addition there are a number of other reports that have not been posted on the City's website and are listed below:

Comprehensive Residential Waste Composition Report – This study collected, separated and categorized wastes setout curbside in a portion of the City. This study provided a basis for identifying the types and quantities of recyclables that are included in the municipal waste stream and the level of diversion that could potentially be achieved.

Organic Waste Diversion Report – This study inventoried residential, industrial, commercial and institutional organic waste quantities and types and identified management options. Organic wastes represent a significant proportion of the waste stream that could potentially be processed and diverted.

Co-composting Pilot Study - City investigated the feasibility of composting various types of organic feedstocks including municipal biosolids (sewage sludge), leaf and yard waste, and kitchen wastes. The intent of the study was to look at the feasibility of improving cost efficiencies by processing a variety of organic feedstocks concurrently.

Has there been a gap between now and the last work on this project? If so, why was that? Yes there has been a gap. We consulted with stakeholders, upper levels of government, the general public and aboriginal communities in the summer/fall of 2007. At that time a couple of stakeholders expressed interest in having more time to provide input into the process. In addition City Council felt it was important to allow the Elementa pilot project to mature. The intent was to provide greater clarity on the role Elementa may play in the City's overall waste management plan prior to moving forward with the Environmental Assessment work. With the City's recent endorsement of a waste supply agreement with Elementa we now have a better understanding of how Elementa will fit within the overall waste management plan.

Is this EA only considering waste once it enters the waste stream? I'm wondering whether there's a role in this study/project to consider the city's capacity to reduce the generation of waste. One of the alternatives included in the EA is enhanced Waste Diversion. This alternative reflects diversion from disposal through 3R's (waste reduction, reuse and recycling) initiatives. The City has taken an active role in 3R's through its aggressive public education campaign which includes frequent spots on Shaw Cable 10, postings on its website, initiatives in schools, print media advertisements, etc. The various reduce, reuse and recycling initiatives offered in SSM are summarized in the most recent reports posted on the City's website. The City has been very successful in reducing the quantity of waste being disposed and is committed to continue to explore new opportunities in the future.

Was a role for composting considered? Yes. Through the waste management planning work completed in the early 2000's a recommendation was made to expand leaf and yard waste collection from three collections in the fall to bi-weekly collections throughout the growing season. In addition the City has studied the possibility of a source separated organics program and is currently undertaking a Biosolids Management Study which includes consideration of composting biosolids.

The information flyer recently communicated for this open house refers to a "preferred waste management method", is titled "solid waste disposal environmental assessment", and indicates that results of the EA to date suggests landfilling as the most appropriate disposal method. I'm trying to understand what the current activities include: waste disposal, waste management or is there more to the picture? What exactly is the project? Are the current activities part of a larger project? As you will see from the various reference documents, a considerable level of study and significant changes have occurred with the way in which waste is managed in Sault Ste. Marie. Prior to undertaking the current Environmental Assessment the City completed an extensive waste management planning project with a focus on diverting waste from disposal. These efforts have resulted in significant improvements in the quantity of waste diverted from disposal and further enhancements are continuing today. The first phase of the EA comprises of looking at functionally different ways of managing waste. The work completed in the first phase of the EA concluded that the preferred approach to managing waste in the future is to further enhance waste diversion efforts and dispose of any residual waste through landfilling. Thermal processing will also play a significant role through the City's agreement with Elementa to thermally process a significant proportion of the waste stream. Although a significant element of the final solution is enhanced waste diversion, these enhancements do not require the completion of an individual EA and will be procured separately (eg. biosolids management study). An Individual EA is however required to establish additional waste disposal capacity and hence in the next phases of the EA process the City will focus on waste disposal. This in no way diminishes the City's desire and commitment to further enhancing waste diversion as the EA progresses. The City will continue to identify and evaluate ways and means of reducing its reliance on waste disposal.

The next steps indicates your team will be evaluating landfilling options. Has the decision to pursue this option been finalised, or are those landfilling options to be evaluated for decision making purposes? Are there additional aspects that will be further investigated and evaluated as part of this project(s?) in order to dispose/divert/reduce waste? Within the context of the EA a decision has been made to manage waste through enhanced waste diversion and landfilling of residual waste. It is also noted however that thermal waste processes will play a significant role in the management of waste generated within the service area through the City's agreement with Elementa. As you are likely aware the Elementa project is a separate private sector initiative that this proceeding through its own Environmental Screening process. The City has no involvement in their process. Moving forward, the project team will initially be evaluating landfill expansion versus landfilling in a new Greenfield site. The initial evaluation will be completed by looking at the pros and cons of the these two alternatives at a non-site specific level. Once the initial non-site specific evaluation is completed we will focus on the potential impacts associated with specific site(s) for the preferred solution.

What is the length of the Elementa contract in which the city has agreed to 12,500 tons annually? The duration of the contract is ten years with an option to extend it for an additional ten years.

If you'd prefer, perhaps we (or one of your staff) could chat by phone. I am also available to discuss further once you have digested the information provided.

Thanks,

Talvitie, Rick

From: Talvitie, Rick
Sent: Monday, June 07, 2010 4:48 PM
To: 'robert14robert@yahoo.ca'; 's.hamiltonbeach@cityssm.on.ca'; Maahs, Nancy
Subject: Re: Ciy of SSm waste disposal EA

Hi Robert

Nice to hear from you.

I'm sorry you could not make the open house. I am currently away from the office and will provide you with some documentation and/or address your questions over the next couple of days.

Rick.....Sent via Blackberry

From: Robert Rattle <robert14robert@yahoo.ca>
To: Talvitie, Rick; s.hamiltonbeach@cityssm.on.ca <s.hamiltonbeach@cityssm.on.ca>; Maahs, Nancy
Sent: Mon Jun 07 13:17:56 2010
Subject: Ciy of SSm waste disposal EA

Nancy, could you please add my email to the mailing list for future information and notifications for this EA? Thanks. R

Hi Rick/Susan,

I wasn't able to make the open house the other day, and have a few questions about the Solid Waste Disposal EA.

Are the Terms of Reference for this study/project available?

Is there a report describing this project or any results to date available?

Has there been a gap between now and the last work on this project? If so, why was that?

Is this EA only considering waste once it enters the waste stream? I'm wondering whether there's a role in this study/project to consider the city's capacity to reduce the generation of waste.

Was a role for composting considered?

The information flyer recently communicated for this open house refers to a "preferred waste management method", is titled "solid waste disposal environmental assessment", and indicates that results of the EA to date suggests landfilling as the most appropriate disposal method. I'm trying to understand what the current activities include: waste disposal, waste management or is there more to the picture? What exactly is the project? Are the current activities part of a larger project?

The next steps indicates your team will be evaluating landfilling options. Has the decision to pursue this option been finalised, or are those landfilling options to be evaluated for decision making purposes? Are there additional aspects that will be further investigated and evaluated as part of this project(s?) in order to dispose/divert/reduce waste?

What is the length of the Elementa contract in which the city has agreed to 12,500 tons annually?

If you'd prefer, perhaps we (or one of your staff) could chat by phone.

Thanks,

Robert

August 2010

[HTTP://WWW.CITY.SAULT-STE-MARIE.ON.CA/OPEN_PAGE.ASPX?ID=639&DEPTID=1](http://www.city.sault-ste-marie.on.ca/open_page.aspx?id=639&deptid=1)

SOLID WASTE MANAGEMENT PLANNING

In September, 2000 the City set out to develop a comprehensive waste management plan to guide the management of municipal solid waste over the next 25 to 40 years. The study was largely initiated to address the City's low waste diversion rate and the diminishing waste disposal capacity at the City landfill on Fifth Line.

A series of studies were undertaken to assess existing waste management programs/services and identify potential system enhancements. Some of the key reports that were produced through these planning initiatives are described below and the full text is accessible by selecting the link.

1. **Current Waste Management System Summary Report (September, 2000)** (Link to Report) – Inventoried and summarized current (ie. 1999) waste management programs including costs and revenues.
2. **Alternative Waste Diversion/Collection Systems Report (June, 2001)** (Link to Report) – Identified alternative waste diversion programs and the quantities that could potentially be diverted.
3. **Business and Implementation Plan (February, 2003)** (Link to Report) – Identified costs of the existing and proposed waste management programs and explored strategies to recover those costs (bag limits, bag fees, increased tipping and gate fees).

The City recognized the importance of focusing their initial efforts to enhance waste diversion through system enhancements and more equitable user fee structures. **Congratulations Sault Ste. Marie! Thanks to your response and participation, the residential waste diversion rate has increased from 9% in 1999 to 34% in 2009.**

The City plans to continue to promote and explore 3R's (reduce, reuse, recycle) programs to further reduce the level of waste disposal. It is however recognized that some residual waste will continue to be generated for the foreseeable future that will require disposal.

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

In 2005 the City submitted and obtained approval of its **Solid Waste Management Plan Environmental Assessment Terms of Reference (July, 2005)** (link to report). The purpose of the Terms of Reference is to set the scope and describe the process that will be undertaken to address the problem of diminishing disposal capacity at the existing landfill. The Environmental Assessment Terms of Reference was approved by the Ministry of Environment in September 2005.

The Environmental Assessment was initiated in 2006 and governmental, public, stakeholder and First Nation input was obtained on the functionally different ways of managing municipal solid waste through the summer and fall of 2007. The City has now reached an important milestone in its Environmental Assessment process. **The preferred waste management alternative for the City has been identified as increased waste diversion and landfilling of the residual waste.**

The first steps in the Environmental Assessment Process are documented in the reports below.

1. **Solid Waste Management Environmental Assessment – Waste Quantity Projections and Existing Environment Profile** (Link to Report) – waste quantity projections are developed for the 40 year planning period and the existing study area environment is described.
2. **Solid Waste Management Environmental Assessment – Alternatives to the Undertaking** (Link to Report) – identifies and evaluates functionally different ways of managing waste.

Although not included within the City's Environmental Assessment process it is noteworthy that the City has committed to supply a portion of its municipal solid waste for processing in a privately owned and operated steam reformation (ie. energy-from-waste) plant. The Elementa Group is currently completing an environmental screening (ie. a streamlined Environmental Assessment) and the plant is scheduled to become operational in April, 2011. Any waste diverted to this facility in the future will reduce the quantity of waste disposed in the City's landfill thus increasing the site life of the landfill.

The next steps for the City of Sault Ste. Marie include continuing to improve the current waste diversion system and identifying and evaluating alternative methods for landfill. Comment or questions may be directed to:

Mr. Rick Talvitie, P.Eng.
Project Manager
AECOM Canada Ltd.
523 Wellington Street East
Sault Ste. Marie, ON P6A 4J4

Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580, 99 Foster Drive
Sault Ste. Marie, ON P6A 5N1

Phone: 705-759-5385
Fax: 705-541-7165
Email: s.hamiltonbeach@cityssm.on.ca

If you would like to receive future information and notifications via email, please forward your email address to nancy.maahs@aecom.com. Please include the title "City of SSM Waste Disposal EA" in your message.

The next open house/workshop is planned for the fall of 2010.

Talvitie, Rick

From: Talvitie, Rick
Sent: August 16, 2010 1:51 PM
To: mwozny@elementagroup.com
Cc: s.hamiltonbeach@cityssm.on.ca; Kolli, Karla
Subject: Sault Ste. Marie Waste Management EA

Hi Mike,

Susan forwarded, to me, your email of July 15, 2010. I would like to address the comments/questions that were included in your email. My responses reflect the numbering referenced in your email.

Should you have any further comments/questions or require further clarification we would be happy to address them.

1. We recognize that the Elementa process is not incineration. The "high heat processes" alternative was included in the EA to simplify the alternatives for the publics' benefit. The approach taken in the evaluation was to compare the alternatives relative to each other. We do not believe there would be any significant change in the rankings if incineration and steam reformation were evaluated individually. We believe the evaluation reflects the appropriate ranking for steam reformation relative to the other alternatives. The final report can be viewed on the City's Waste Management EA web page at the link provided below. Under each criterion we have documented the rationale for the assigned rankings. Should you feel that changes are warranted please provide specific feedback and the rationale for any suggested changes.
2. The information presented at the open house was a summary only. More detailed information regarding the evaluation criteria and the rationale for the assigned rankings is included in the final report. Once you have reviewed this additional information let me know if you still have further questions.
3. As noted above the information included in the final report includes the rationale for the assigned rankings. Once you have reviewed this additional information please let us know whether you feel any of the assigned rankings require amendment. Please ensure you document the rationale for your suggestions.
4. Within the context of the EA, the preferred alternative comprises of enhanced diversion from disposal using the 3R's hierarchy (reduce, reuse, recycle) and disposal of residual solid non-hazardous waste through landfilling. This decision was arrived at, in part, because a significant proportion of waste generated in the City is already committed to Elementa and a landfill will provide a suitable means of disposing of residual solid non-hazardous waste generated by the Elementa process. The material presented at the open house acknowledges that Elementa will play an integral role in the City's overall waste management plan. Ultimately the City will continue to investigate alternative ways and means of diverting waste from disposal using the 3R's hierarchy and residual solid non-hazardous waste will either be processed at the Elementa facility and/or landfilled.

We hope we have provided some clarity. Should you have any additional questions or require additional clarification we would be pleased to elaborate further.

Regards

http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: September 8, 2010 3:01 PM
To: Naval, Edward (ENE); Varghese, Betsy
Cc: Susan Hamilton Beach; Don Elliott; Kolli, Karla; 066988
Subject: RE: Minutes from SSM EA Meeting with MOE

Hi Edward,

Your email is quite timely as I was speaking to Betsy and Karla this morning regarding the a number of issues relative to this project. We are currently in the process of drafting the alternative methods report and we are also preparing a comprehensive public consultation plan. We will be forwarding the public consultation plan to you by the end of next week. We will also provide you with a comprehensive update regarding the project status at that time.

In the meantime, I am not sure whether you have had an opportunity to visit the City's website which includes a number of the completed reports and information on the most recent public consultation event. The link is provided below. Let me know if you would like hardcopies of any of the reports that are available on the City's website and we would be pleased to forward them to you.

Let me know if there is anything else you would like at this time.

Regards,

http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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www.aecom.com

From: Naval, Edward (ENE) [<mailto:Edward.Naval@ontario.ca>]
Sent: September 8, 2010 11:48 AM
To: Varghese, Betsy
Cc: Susan Hamilton Beach; Don Elliott; Talvitie, Rick; Kolli, Karla; 066988
Subject: RE: Minutes from SSM EA Meeting with MOE

Hello,

I was just wondering if there are any updates I can get on the progress of the SSM EA for Solid Waste Disposal?

Thanks,
Edward

Edward Naval
Project Officer
EA Project Coordination Section
Environmental Assessment and Approvals Branch
Ministry of the Environment
2 St. Clair Avenue West, 14th Floor

Toronto ON M4V 1L5
Tel: (416) 212-4279
Fax: (416) 314-7774

From: Varghese, Betsy [mailto:bvarghese@dillon.ca]
Sent: June 04, 2010 3:38 PM
To: Naval, Edward (ENE)
Cc: Susan Hamilton Beach; Don Elliott; Talvitie, Rick; Kolli, Karla; 066988
Subject: Minutes from SSM EA Meeting with MOE

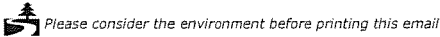
Good Afternoon,

Please find the minutes from our March 25, 2010 meeting on the Sault Ste. Marie EA for Solid Waste Disposal attached for your records. If you have any questions or comments, please feel free to email me.

Thanks and have a great weekend.



Betsy Varghese, P.Eng., LEED AP
Dillon Consulting Limited
235 Yorkland Blvd, Suite 800
Toronto, Ontario, M2J 4Y8
T - 416.229.4647 ext. 2326
F - 416.229.4692
bvarghese@dillon.ca
www.dillon.ca



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Talvitie, Rick

From: Talvitie, Rick
Sent: September 24, 2010 2:00 PM
To: Naval, Edward (ENE)
Cc: Susan Hamilton Beach; Maahs, Nancy; Kolli, Karla; Varghese, Betsy
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: Public Consultation Plan - Report format sep 23.pdf

Hi Ed,

Attached you will find a Public Consultation Plan. The Plan identifies the various consultation activities that have been undertaken to date within the context of the EA process and highlights the consultation activities and methodologies that we propose to employ for the remainder of the EA process.

We will also forward a project schedule early next week.

Any comments you may have would be welcomed by the project team.

Have you had a chance to look at any of the documents on the City's webpage? Would you like us to forward hardcopies of any of the reports? We would also appreciate receiving any comments on the "Waste Quantities Projections and Existing Environmental Profile" report and "Alternatives to the Undertaking" report.

Please let me know if you have any questions.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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Sault Ste. Marie, Ontario Canada P6A 2M4
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www.aecom.com

I may check my emails four times per day. If it's urgent, please call me.

From: Talvitie, Rick [<mailto:Rick.Talvitie@aecom.com>]
Sent: Friday, September 24, 2010 2:01 PM
To: Sue Chiblow
Cc: Susan Hamilton Beach; Varghese, Betsy; Kolli, Karla
Subject: City of Sault Ste. Marie - Waste Management EA

Hi Sue,

It has been some time since we last met. We are attaching the following documents for your reference and information:

- ? Meeting Report from our July 28, 2010 meeting;
- ? Public Consultation Plan which includes a summary of the consultation activities undertaken with First Nation Communities to date; and

Will also forward an updated project schedule early next week.

There are a couple of follow-up items for you in the meeting report. Also have you had an opportunity to discuss our meeting with Band Council? We would appreciate receiving any feedback on best practices for engaging First Nations members in future consultation activities.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: January 21, 2011 12:25 PM
To: 'sue@coo.org'
Cc: 'Susan Hamilton Beach'; Kolli, Karla; 'cbarry@gardenriver.org'
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: 60395 EA schedule revised jan 2011.pdf

Hi Sue,

I am touching base to provide you with our current schedule for this project.

The next significant event is a Stakeholder workshop which we will be coordinating in the latter part of March. The focus of the workshop is to obtain feedback on the first phase of our Alternatives Methods Evaluation. You may recall, we previously identified landfilling as the preferred approach to disposing of residual waste (ie. any waste remaining after all diversion activities). We are now evaluating different methods of landfilling and the first step is to identify whether expanding a site or establishing a new greenfield site is preferred. We will be asking workshop participants to provide feedback on the evaluation criteria used and the ranking of the alternatives. Hopefully you and your colleagues will be able to attend.

We will be issuing a Notice in advance of the workshop to invite a broad group of stakeholders. You are included on our mailing list.

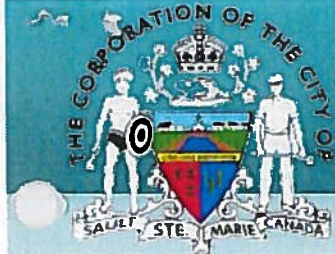
If you have any questions please contact me.

As an aside ...how was the EA toolkit training that was conducted last fall? Can we obtain a copy of the toolkit?

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. In the evaluation of "Alternatives To the Undertaking", a thorough review of different waste management alternatives including increased waste diversion, incineration/high heat processes, landfill, export waste outside the service area, and "do-nothing" was completed. To identify a preferred approach to managing waste, the alternatives were comparatively evaluated using the following seven criteria:

1. Compliance with current regulations and policies;
2. Environmental acceptability;
3. The ability of the City of Sault Ste. Marie to implement the preferred alternative;
4. Flexibility of the system;
5. Capability of managing waste quality and quantity;
6. Proven technical capacity; and
7. Cost.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste. The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the entire residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

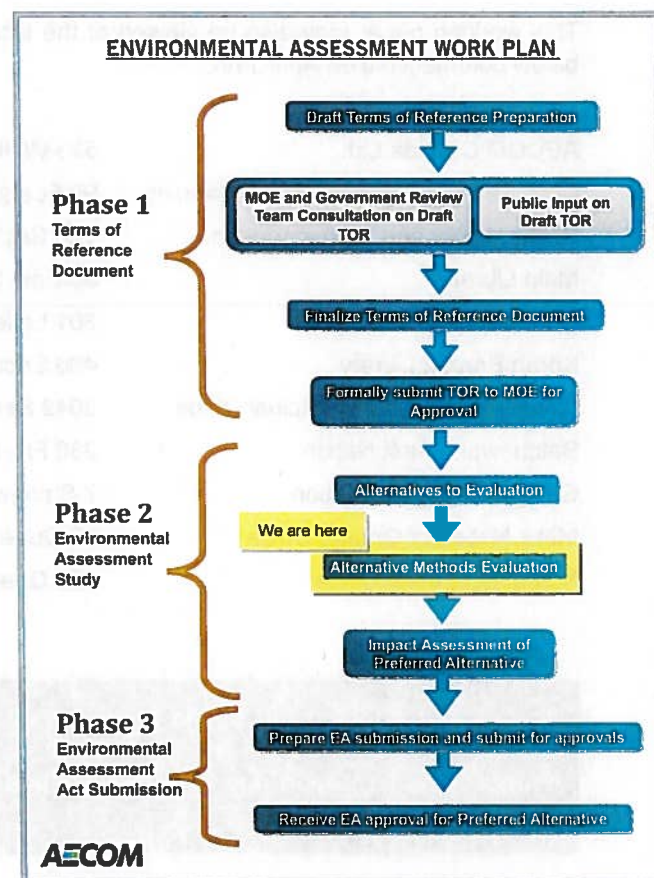
The flexibility of the preferred alternative is particularly important given the City's contract with The Elementa Group (an energy-from-waste service provider) for the annual processing of at least 12,500 metric tonnes of municipal solid waste. Elementa intends to construct and operate a new 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility in the future will reduce the quantity of residual waste requiring disposal in a landfill.

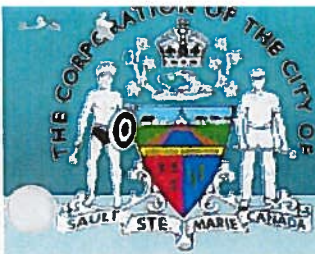
NEXT STEPS

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require Environmental Assessment (EA) Act approval, the EA study is now focusing on alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step to be completed in this phase consists of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. This step will provide initial focus to the search for additional landfill capacity.

A preliminary evaluation of these alternatives has been completed by the project team. We are now seeking input from the general public and Stakeholders regarding the evaluation criteria considered and the preliminary findings.





THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

PUBLIC INPUT SESSION

If you are interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to landfilling residual waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve, we encourage you to attend this public input session!

We will provide you with background information, update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches to landfilling residual solid waste. A principle objective of the session is to confirm whether the City should focus its efforts to obtain additional disposal capacity by expanding an existing landfill site or finding a location for a new site.

Background information documenting the work completed to date is available on the City website at http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1.

In addition, the alternatives and the evaluation criteria currently being considered are also available on the website in a working paper prepared for this session titled "Solid Waste Management Environmental Assessment - Alternative Methods - Step 1 (Landfill Expansion versus Development of a New Site).

This working paper may also be viewed at the locations noted below commencing on April 11th.

AECOM Canada Ltd.	523 Wellington Street
Civic Centre Engineering and Planning	99 Foster Drive, 5th Flr.
Public Works and Transportation	128 Sackville Road
Main Library	50 East Street
Churchill Branch Library	301 Lake Street
Korah Branch Library	496 Second Line
Township of Prince Municipal Office	3042 Second Line West
Batchewana First Nation	236 Frontenac Street
Garden River First Nation	7 Shingwauk Street
Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East

YOU'RE INVITED!

Date: Tuesday April 19, 2011
Location: Civic Centre – Russ Ramsay Room
Time: 6:30 pm to 9:00 pm

Refreshments to be provided.

CONTACT US

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

Information pertaining to this session is available on the City of Sault Ste. Marie website at:

http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1.

Hardcopies can also be obtained by contacting AECOM at 705-942-2612.

If you cannot attend the public input session in person, we still want to hear from you! Just go to the City's website (http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1), review the Alternatives Method - Step 1 Report and fill out our online questionnaire. A link to the online questionnaire is provided on the City's website.



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. In the evaluation of "Alternatives to the Undertaking", a thorough review of different waste management alternatives including increased waste diversion, incineration/high heat processes, landfill, export waste outside the service area, and "do-nothing" was completed.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste. The preferred alternative was presented at an Open House in June, 2010.

NEXT STEPS

The next step consists of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. This step will provide initial focus to the search for additional landfill capacity.

A preliminary evaluation of these alternatives has been completed by the project team. We are now seeking input from the general public and stakeholders regarding the evaluation criteria considered and the preliminary findings.

PUBLIC INPUT SESSION

If you are interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to landfilling residual waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve, we invite you to attend this public input session.

We will provide background information, update you on the City's achievements in increasing waste diversion and discuss the alternative approaches to landfilling residual solid waste.

Background documents including the working paper to be discussed at the public input session entitled "Solid Waste Management Environmental Assessment - Alternative Methods - Step 1 (Landfill Expansion versus Development of a New Site)" are available on the City's website at www.cityssm.on.ca - Click City Hall Bulletins - Public Input Session - Solid Waste Management.

CONTACT US

We encourage you to contact the individuals below if you have questions.

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

YOU'RE INVITED!

Date: Tuesday, April 19, 2011
Location: Civic Centre, 99 Foster Dr.
Russ Ramsay Board Room
Time: 6:30 to 9:00 p.m.

Refreshments provided.

If you cannot attend the public input session, we still want to hear from you! Go to the City's website www.cityssm.on.ca (Click City Hall Bulletins - Public Input Session - Solid Waste Management) to review the Alternatives Method - Step 1 Report and fill out the online questionnaire.

Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 2:13 PM
To: shawnah@metisnation.org
Cc: 'Susan Hamilton Beach'; 'Kolli, Karla'; 'Varghese, Betsy'; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: SSM_Newsletter 1page.pdf

Hi Shawna,

Susan Hamilton Beach of the City and I initially met with Brent McHale on March 26, 2007 to discuss the City's Waste Management Environmental Assessment process. We have been in contact with your organization on several occasions since that original meeting and I wanted to take this opportunity to update you on the status of the project and invite you and your members to an upcoming public input session.

I have attached a Notice for your information and reference which explains the current status of the project. **The attached Notice also references a Public Input Session that is scheduled for April 19, 2011 in Sault Ste. Marie.**

We would like to take this opportunity to invite you, and your members to attend this public input session. The upcoming session will also be advertised through various media in advance of the event.

We encourage as much participation as possible and are hopeful that there will be some representation from your members. **To this end, we encourage you to post the attached notice on your website and download, print and post the Notice in prominent locations.**

We will also deliver, on April 11th, a hard copy of the "Solid Waste Management Environmental Assessment – Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site)" working paper which we ask you to make available for viewing at your office. We will also provide several hard copies of the Notice at that time.

We look forward to seeing representation from your members on April 19th!

Let me know if you have any questions or concerns.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 1:28 PM
To: micheled@metisnation.org
Cc: 'Susan Hamilton Beach'; 'Kolli, Karla'; 'Varghese, Betsy'; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: SSM_Newsletter 1page.pdf

Hi Michele,

Susan Hamilton Beach of the City and I initially met with Brent McHale on March 26, 2007 to discuss the City's Waste Management Environmental Assessment process. We have been in contact with you on several occasions since that original meeting and I wanted to take this opportunity to update you on the status of the project and invite you and your members to an upcoming public input session.

I have attached a Notice for your information and reference which explains the current status of the project. **The attached Notice also references a Public Input Session that is scheduled for April 19, 2011 in Sault Ste. Marie.**

We would like to take this opportunity to invite you, and your members to attend this public input session. The upcoming session will also be advertised through various media in advance of the event.

We encourage as much participation as possible and are hopeful that there will be some representation from your members. **To this end, we encourage you to post the attached notice on your website and download, print and post the Notice in prominent locations.**

We will also deliver, on April 11th, a hard copy of the "Solid Waste Management Environmental Assessment – Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site)" working paper which we ask you to make available for viewing at your office. We will also provide several hard copies of the Notice at that time.

We look forward to seeing representation from your members on April 19th!

Let me know if you have any questions or concerns.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 1:16 PM
To: lgagnon@missanabiecree.com
Cc: Susan Hamilton Beach; Kolli, Karla; Varghese, Betsy; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: SSM_Newsletter 1page.pdf

Hi Lesley,

Susan Hamilton Beach of the City and I initially met with you on March 26, 2007 to discuss the City's Waste Management Environmental Assessment process. We have been in contact with you on several occasions since that original meeting and I wanted to take this opportunity to update you on the status of the project and invite you and your members to an upcoming public input session.

I have attached a Notice for your information and reference which explains the current status of the project. **The attached Notice also references a Public Input Session that is scheduled for April 19, 2011 in Sault Ste. Marie.**

We would like to take this opportunity to invite you, and your members to attend this public input session. The upcoming session will also be advertised through various media in advance of the event.

We encourage as much participation as possible and are hopeful that there will be some representation from your members. **To this end, we encourage you to post the attached notice on your website and download, print and post the Notice in prominent locations.**

We will also deliver, on April 11th, a hard copy of the "Solid Waste Management Environmental Assessment – Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site)" working paper which we ask you to make available for viewing at your office. We will also provide several hard copies of the Notice at that time.

We look forward to seeing representation from your members on April 19th!

Let me know if you have any questions or concerns.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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T 705.942.2612 F 705.942.3642
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Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 11:20 AM
To: sayersl@gardenriver.org; cbarry@gardenriver.org
Cc: Susan Hamilton Beach; Kolli, Karla; 'alidstone@batchewana.ca'; Varghese, Betsy; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: SSM_Newsletter 1page.pdf

Good Morning Chief Sayers and Caroline,

The City is continuing to move forward with a Waste Management Environmental Assessment.

You may recall that Susan Hamilton Beach of the City and I met with Band Council on June 8, 2010 and April 3, 2007. We also conducted an Open House in your Community on August 9, 2007. We appreciate these opportunities to discuss this important project with Band Council and members of your community.

I have attached a Notice for your information and reference which explains the current status of the project. **The attached Notice also references a Public Input Session that is scheduled for April 19, 2011 in Sault Ste. Marie.**

We would like to take this opportunity to invite you, Band Council members and Band members to attend this public input session. The upcoming session will also be advertised through various media in advance of the event.

We encourage as much participation as possible and are hopeful that there will be some representation from your Community at the upcoming event. **To this end, we encourage you to post the attached notice on your website and download, print and post the Notice in prominent locations in your Community.**

We will also deliver, on April 11th, a hard copy of the "Solid Waste Management Environmental Assessment – Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site)" working paper which we ask you to make available for viewing at the Band office. We will also provide several hard copies of the Notice at that time.

We are also pleased to extend an offer to once again meet with Band Council or conduct a public input session in your community if you feel this would be more appropriate and beneficial for your community members.

We look forward to hearing from you in the near future and look forward to seeing representation from your Community on April 19th!

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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T 705.942.2612 F 705.942.3642
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Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 10:35 AM
To: 'chiefdeansayers@batchewana.ca'
Cc: Susan Hamilton Beach; Kolli, Karla; 'alidstone@batchewana.ca'; Varghese, Betsy; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: SSM_Newsletter 1page.pdf

Good Morning Chief Sayers,

I would like to take this opportunity to congratulate you on your recent successful re-election. I am sure you will continue to find the position both very challenging and very rewarding.

You may recall that Susan Hamilton Beach of the City and I met with you on several occasions in the past to discuss the City's Waste Management Environmental Assessment (EA). The City is continuing to move forward with this EA.

I have attached a Notice for your information and reference which explains the current status of the project. **The attached Notice also references a Public Input Session that is scheduled for April 19, 2011.**

We would like to take this opportunity to invite you, Band Council members and Band members to attend this public input session. The upcoming session will also be advertised through various media in advance of the event.

At the public input session conducted in June, 2007 Agnes Lidstone attended and participated in the session. Her participation was greatly appreciated. We encourage as much participation as possible and are hopeful that there will be some representation from your Community at the upcoming event. **To this end, we encourage you to post the attached notice on your website and download, print and post the Notice in prominent locations in your Community.**

We will also deliver, on April 11th, a hard copy of the "Solid Waste Management Environmental Assessment – Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site)" working paper which we ask you to make available for viewing at the Band office. We will also provide several hard copies of the Notice at that time.

We are also pleased to extend an offer to meet with Band Council or conduct a public input session in your community if you feel this would be more appropriate and beneficial for your community members.

We look forward to hearing from you in the near future and look forward to seeing representation from your Community on April 19th!

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 10:22 AM
To: bcoughlin@twp.prince.on.ca
Cc: Kolli, Karla; Susan Hamilton Beach; Varghese, Betsy
Subject: City of Sault Ste. Marie Waste Management EA - Public Input Session
Attachments: SSM_Newsletter 1page.pdf

Good Morning Brianna,

The City is continuing to move forward with a Waste Management Environmental Assessment (EA).

I have attached a Newsletter for your information and reference which explains the current status of the project. The attached Notice also references a **Public Input Session that is scheduled for April 19, 2011.**

We would like to take this opportunity to invite members of your community to attend this public input session. The upcoming session is also being advertised through various media in advance of the event.

We encourage as much participation as possible and are hopeful that there will be some representation from your Community at the upcoming event. We have attached a Notice of the Public Input Session for your information and use. We encourage you to post this Notice on your website and download, print and post the Notice in prominent locations in your Community.

We will also deliver, on April 11th, a hard copy of the "Solid Waste Management Environmental Assessment – Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site)" which we ask you to make available for viewing at the Municipal office.

We are hopeful that there will be broad representation of various interest groups and communities at the event.

We look forward to seeing representation from your community on April 19th!

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 2:47 PM
To: sue@coo.org
Cc: 'Susan Hamilton Beach'; 'Kolli, Karla'; 'Varghese, Betsy'; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: SSM_Newsletter 1page.pdf; City of Sault Ste. Marie Waste Management EA.htm

Hi Sue,

I hope all is well.

I wanted to keep you in the loop regarding the City's Waste Management Environmental Assessment.

Please see the attached email that was sent to Garden River First Nation earlier today. I have also attached a copy of a Notice for an upcoming Public Input Session.

Let me know if you have any questions or comments.

Thanks.

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: April 8, 2011 2:17 PM
To: Andrea.Berenkey@ontario.ca
Cc: 'Susan Hamilton Beach'; 'Kolli, Karla'; 'Varghese, Betsy'; Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: SSM_Newsletter_8Apr2011.pdf

Hi Andrea,

Hopefully you have had an opportunity to review some the project materials that we provided or referenced in the email below. I wanted to take this opportunity to update you on the status of the City of Sault Ste. Marie's Waste Management EA and to inform you of an upcoming public input session.

I have attached a Notice for your information and reference which explains the current status of the project. **The attached Notice also references a Public Input Session that is scheduled for April 19, 2011 in Sault Ste. Marie.** The session is being undertaken to solicit input on the generic, non-site specific evaluation of landfill expansion versus the development of a new landfill site.

The upcoming session is being advertised through various local media in advance of the event.

We are encouraging as much participation as possible and are hopeful that we will achieve broad representation from the general public and various stakeholders.

We would also like to extend an offer to meet with you either before or after the upcoming public consultation event. Please let me know your preference for meeting.

We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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From: Talvitie, Rick
Sent: January 27, 2011 12:42 PM
To: Andrea.Berenkey@ontario.ca
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment

Hi Andrea,

Further to my voicemail message, I am the Project Manager for the consultant team leading the Waste Management EA for the City of Sault Ste. Marie.

I am not sure to what extent Ed Naval may have filled you in on our ongoing EA. I have attached a couple of emails that I sent to Ed in September 2010 for your information and reference. The link provided below and the attached Public Consultation Plan were referenced in those emails. There are a number of documents on the project webpage (referenced below) that will provide detailed information on the project background and the "Alternatives To" phase. I have also attached our current Project Schedule.

The next significant event is a Stakeholder Workshop which we will be coordinating in the latter part of March/2011. The focus of the workshop is to obtain feedback on the first step of our "Alternatives Methods" Evaluation which consists of a generic (ie. non-site specific) evaluation of landfill expansion versus a new greenfield site. We will be asking workshop participants to provide feedback on the evaluation criteria used and the ranking of the alternatives.

We would like to convene a meeting with you in the near term. We will identify some potential dates in February in a follow-up email. The intent of the meeting will be to provide a historical overview of the project, summarize work completed to date, describe our approach to the Alternative Methods phase, and address any questions you may have.

We look forward to working with you on this important undertaking.

Regards,

http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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Talvitie, Rick

From: Talvitie, Rick
Sent: May 27, 2011 11:59 AM
To: 'ANDRE RIOPEL'
Cc: 'Susan Hamilton Beach'; Kolli, Karla; Maahs, Nancy; 'Varghese, Betsy'
Subject: RE: landfill study

Hi Andre,

I apologize for the delay in responding but we were trying to obtain some information on waste quantities generated in SSM and disposed of in Dafter. Waste Management has responded to my request and indicated that the requested information is proprietary and they will not share it.

We do however appreciate receiving your comments. You have tabled some interesting ideas. I have provided below, for your consideration, some responses related to each of your ideas/comments. Also I am available to meet with you to discuss these matters further if you wish.

We will add you to our project mailing list to ensure you receive future mailings and to ensure you are aware of future public input sessions.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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www.aecom.com

From: ANDRE RIOPEL [mailto:ariopel@shaw.ca]
Sent: May 5, 2011 3:30 AM
To: Talvitie, Rick
Subject: landfill study

Hi Rick: I just looked at the slides you have put on the city site and I had a question.

Do you know how much of our garbage is now going to Dafter? [**<Rick Talvitie>**] **In general very little residential waste is being exported to Michigan as a result of the voluntary agreement between Michigan Senators and the Ministry of Environment that came into effect on January 1, 2011. Locally the majority of the waste being exported is limited to Industrial/Commercial and Institutional wastes picked up by at least one local commercial hauler. As noted above we have not been able to source quantity estimates from the commercial hauler but we may try other avenues to obtain this information. The City is only responsible for the management of residential waste and does not have control or jurisdiction over IC&I wastes. The City does however recognize that there are limited options available in this area for the disposal of residual IC&I wastes and is including estimated residual IC&I wastes in their quantity projections. It is also noteworthy that it appears that further steps are being taken by the State of Michigan to reduce or eliminate the quantity of Canadian waste being disposed of in their State. Refer to this link <http://www.solidwastemag.com/issues/story.aspx?aid=1000409297> I know that the local waste management company I use in my business takes the garbage there. [**<Rick Talvitie>**] **The landfill in Dafter is owned by Waste Management. How long have they been doing this? [**<Rick Talvitie>**] I believe Waste Management took ownership of the disposal site some 8 or 9 years ago. How does that affect the graph you****

had about how much garbage we produce? Would some of the reduction you demonstrate be related to this? [**Rick Talvitie**] **There is clearly some impact since they are exporting waste generated in our City and disposing of it elsewhere. However, based on our knowledge the quantity is relatively small.**

Personally I think that we should be diverting 90% of our waste. I think most people in our city do not try very hard to reduce the amount of garbage they put out. This could be improved by stronger by laws that make it illegal to put any recyclable, hazardous or compostable in the garbage. We could also make it so that you have to pay for every bag you put out. We are paying for it anyways, it's just that those who put out less than their 2 bags are technically supporting those do. [**Rick Talvitie**] **Although there have been significant successes achieved as the diversion rate has climbed from 9% to 34%, there is always room for improvement. A Waste Management Business and Implementation Plan was prepared a number of years ago and an update is currently underway. That plan looks at the costs of waste management programs and explores options to recover the costs. A full user pay system was explored when the Business and Implementation Plan was first developed and a partial user pay system was ultimately implemented (ie. reduced the curb side limit from 6 bags to 2 bags/containers and the tipping fee/gate fee have been increased from \$27.50/\$2.00 to \$70.00/\$8.00 respectively. Further changes to the user pay program may occur in the future but as you noted changes will require Council approval. The City has included landfill bans on corrugated cardboard and leaf and yard waste. The City remains committed to looking at cost effective ways and means of enhancing waste diversion further. The diversion rate in other larger centers that incorporate curb side organics collection programs is typically in the 50% range. A curb side organics collection program was explored several years ago in Sault Ste. Marie and was identified for possible implementation in the future pending various regulatory and costs considerations.**

I know that politically, it might be a hard sell but I can assure you that the rules in other cities and countries are much stiffer. [**Rick Talvitie**] **Yes there are many more restrictions/rules in other countries. The political arena is an important consideration which typically favours steady progress in lieu of dramatic changes over short periods of time.**

We could also make plastic shopping bags illegal and force merchants to accept packaging and old appliances that were purchased there. [**Rick Talvitie**] **These are good ideas and areas where progress is being made. The current campaign to encourage the use of reusable bags in lieu of plastic shopping bags has been quite successful and many appliances are being recycled for scrap metal. As noted previously there is always room for improvement and the City continues to support and implement changes to enhance diversion.**

Just my 2 cents.

Andre Riopel

Talvitie, Rick

From: Talvitie, Rick
Sent: May 11, 2011 2:45 PM
To: dannysayers@hotmail.com
Cc: Susan Hamilton Beach; Kolli, Karla
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: may 11 LET chief and council re meeting.pdf

Hi Danny,

It was a pleasure speaking with you earlier today. It is my understanding through our discussion that you are the Batchewana First Nation Natural Resource Manager and will be taking the lead on this project on behalf of Batchewana First Nation.

You indicated that your community would like to participate in the process and suggested that we request a meeting with Chief and Council. I have attached a letter for your consideration. Ultimately we would like to tailor a public consultation program that suits your community and achieves the desired participation.

We look forward to working with you and your community and we look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

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www.aecom.com

May 11, 2011

Chief Sayers and Council
Batchewana First Nation
236 Frontenac Street
Sault Ste. Marie, Ontario
P6A 5K9

Dear Chief Sayers:

Project No: 60117627

Regarding: City of Sault Ste. Marie Waste Management Environmental Assessment

The purpose of this letter is to request a meeting with Chief and Council to update you on the progress and status of the City's ongoing Waste Management EA and to discuss the preferred approach to incorporating further Batchewana First Nation participation in the study.

In the summer of 2010, the preferred long term waste management alternative was identified as **increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.**

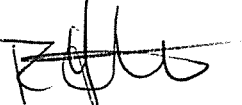
The City is committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require Environmental Assessment (EA) Act approval, the EA study is now focusing on alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step to be completed in this phase consists of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. This step will provide initial focus to the search for additional landfill capacity.

A preliminary evaluation of these alternatives has been completed by the project team. We are now seeking input from the general public, First Nations, and Stakeholders regarding the evaluation criteria considered and the preliminary findings.

We are requesting a meeting with Chief and Council to present the preliminary evaluation and to discuss the preferred approach to incorporating Batchewana First Nation participation in the study. We look forward to meeting with you in the very near future.

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Branch Manager

RT:nm

Communication Record

Date	May 11, 2011	Time	
Between	Danny Sayers Batchewana First Nations	and	Rick Talvitie
Telephone #		Project #	60395
Project Name	Sault Ste. Marie Waste Management EA		
Subject			

PLEASE NOTE: If this communication record does not agree with your records of the meeting, or if there are any omissions, please advise. Otherwise it will be assumed that the contents of this record are correct.

- Danny indicated that he is the Natural Resource Manager for Batchewana First Nations and will be taking the lead on this project.
- Danny indicated that Batchewana First Nations would like to participate in the study. He also noted the BFN is not a stakeholder in this process. He noted that BFN are landowners and are potential project partners for this process.
- RT highlighted the various meetings and public input sessions that have been conducted in Garden River First Nations to provide an example of the different types of events that could be staged in Batchewana First Nations.
- Danny indicated that BFN and GRFN are overlapping territories and what works in GRFN may not be suitable in BFN.
- Danny suggested that a letter be drafted requesting a meeting with Chief and Council.
- Danny would subsequently make a motion to Council to set up a meeting. The letter should be addressed to Chief and Council and should be sent to Danny Sayers. Danny's email is dannysayers@hotmail.com.
- At the beginning of the telephone conversation, RT provided an overview of what has been done to-date and the status of the project.
- Danny was under the impression that there had been very little if any dialogue between the project team and BFN in the past. RT highlighted some of the dialogue that has occurred in the past.

Talvitie, Rick

From: Wagner, Teresa (MTC) [Teresa.Wagner@ontario.ca]
Sent: May 5, 2011 6:36 PM
To: Talvitie, Rick
Cc: s.hamiltonbeach@cityssm.on
Subject: City of Sault Ste. Marie Solid Waste Management Environmental Assessment
Attachments: Archaeological Potential Checklist MTC February 2011.pdf; BuiltHeritage-CHL-Checklist-MTC-Nov2010.pdf

Dear Mr. Talvitie,

On April 13, 2011 the Ministry of Tourism and Culture received the Notice of Public Input Session for the above-mentioned project.

As part of the Environmental Assessment process, the Ministry of Tourism and Culture (MTC) has an interest in the conservation of cultural heritage resources including archaeological resources, built heritage resources and cultural heritage landscapes. As a result, MTC would like to remain informed of this project's progression throughout the EA process.

The purpose of the Ontario Environmental Assessment Act is to provide for the protection, conservation and wise management of Ontario's environment. The Act defines environment in a broad sense that includes natural, social, cultural, economic and built environments. This broad definition of the environment makes the assessment of the impact of the undertaking on cultural heritage resources part of the standard environmental assessment process in Ontario. Environmental assessments made under the EA Act therefore assess and address the impact of the undertaking on cultural heritage resources.

Archaeology

Attached is MTC's Checklist for Determining Archaeological Potential, which identifies characteristics of the property that indicate whether archaeological resources might be present and/or impacted. Please return the completed checklist to me in order to determine whether an archaeological assessment by an archaeologist licensed under the Ontario Heritage Act will be recommended for this project.

Built Heritage and Cultural Heritage Landscape

In addition, in order to determine the existing cultural conditions, known and potential built heritage resources and cultural heritage landscapes should be identified. It is suggested that you contact the City Clerk to determine if there are any properties that have been listed or designated under the *Ontario Heritage Act*. I have also attached our Ministry's standard checklist for identifying potential heritage resources within the study area. When completing this checklist, you should contact the municipal heritage committee or any relevant community heritage organizations.

Please return the completed checklist to me, with any additional relevant information, including photographs and site plans, so that MTC could further advise on any cultural heritage assessment work that will be necessary.

Please do not hesitate to contact me if you have any questions.

<<Archaeological Potential Checklist MTC February 2011.pdf>> <<BuiltHeritage-CHL-Checklist-MTC-Nov2010.pdf>>

Best regards,

Teresa B. Wagner

A/Heritage Planner
Ministry of Tourism and Culture
Programs & Services Branch
401 Bay St. Suite 1700
Toronto, Ontario
M7A 0A7
Tel.: 416-314-7147
Fax: 416-212-1802
email: Teresa.Wagner@ontario.ca



Please consider the environment before printing this e-mail.

Screening for Impacts to Built Heritage and Cultural Heritage Landscapes

This checklist is intended to help proponents determine whether their project could affect known or potential cultural heritage resources. The completed checklist should be returned to the appropriate Heritage Planner or Heritage Advisor at the Ministry of Tourism and Culture.

Step 1 – Screening for Recognized Cultural Heritage Value

YES	NO	Unknown	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Is the subject property designated or adjacent* to a property designated under the <i>Ontario Heritage Act</i> ?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Is the subject property listed on the municipal heritage register or a provincial register/list? (e.g. Ontario Heritage Bridge List)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Is the subject property within or adjacent to a Heritage Conservation District?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. Does the subject property have an Ontario Heritage Trust easement or is it adjacent to such a property?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Is there a provincial or federal plaque on or near the subject property?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Is the subject property a National Historic Site?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Is the subject property recognized or valued by an Aboriginal community?

Step 2 – Screening Potential Resources

YES	NO	Unknown	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Built heritage resources
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Does the subject property or an adjacent property contain any buildings or structures over forty years old[†] that are:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Residential structures (e.g. house, apartment building, shanty or trap line shelter)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Farm buildings (e.g. barns, outbuildings, silos, windmills)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Industrial, commercial or institutional buildings (e.g. a factory, school, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Engineering works (e.g. bridges, water or communications towers, roads, water/sewer systems, dams, earthworks, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Monuments or Landmark Features (e.g. cairns, statues, obelisks, fountains, reflecting pools, retaining walls, boundary or claim markers, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2. Is the subject property or an adjacent property associated with a known architect or builder?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3. Is the subject property or an adjacent property associated with a person or event of historic interest?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. When the municipal heritage planner was contacted regarding potential cultural heritage value of the subject property, did they express interest or concern?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cultural heritage landscapes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. Does the subject property contain landscape features such as:
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Burial sites and/or cemeteries
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Parks or gardens
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Quarries, mining, industrial or farming operations
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Canals
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Prominent natural features that could have special value to people (such as waterfalls, rocky outcrops, large specimen trees, caves, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	▪ Evidence of other human-made alterations to the natural landscape (such as trails, boundary or way-finding markers, mounds, earthworks, cultivation, non-native species, etc.)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. Is the subject property within a Canadian Heritage River watershed?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. Is the subject property near the Rideau Canal Corridor UNESCO World Heritage Site?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8. Is there any evidence from documentary sources (e.g., local histories, a local recognition program, research studies, previous heritage impact assessment reports, etc.) or local knowledge or Aboriginal oral history, associating the subject property/ area with historic events, activities or persons?

Note:

If the answer is "yes" to any question in Step 1, proceed to Step 3.

The following resources can assist in answering questions in Step 1:

Municipal Clerk or Planning Department – Information on properties designated under the Ontario Heritage Act (individual properties or Heritage Conservation Districts) and properties listed on a Municipal Heritage register.

Ontario Heritage Trust – Contact the OHT directly regarding easement properties. A list of OHT plaques can be found on the website: [Ontario Heritage Trust](#)

Parks Canada – A list of National Historic Sites can be found on the website: [Parks Canada](#)

Ministry of Tourism and Culture – The Ontario Heritage Properties Database includes close to 8000 identified heritage properties. Note while this database is a valuable resource, it has not been updated since 2005, and therefore is not comprehensive or exhaustive. [Ontario Heritage Properties Database](#)

Local or Provincial archives

Local heritage organizations, such as the municipal heritage committee, historical society, local branch of the Architectural Conservancy of Ontario, etc.

Consideration should also be given to obtaining oral evidence of CHRs. For example, in many Aboriginal communities, an important means of maintaining knowledge of cultural heritage resources is through oral tradition.

If the answer is "yes" to any question in Step 2, an evaluation of cultural heritage value is required. If cultural heritage resources are identified, proceed to Step 3.

If the answer to any question in Step 1 or to questions 2-4, 6-8 in Step 2, is "unknown", further research is required.

If the answer is "yes" to any of the questions in Step 3, a heritage impact assessment is required.

If uncertainty exists at any point, the services of a qualified person should be retained to assist in completing this checklist. All cultural heritage evaluation reports and heritage impact assessment reports must be prepared by a qualified person. Qualified persons means individuals (professional engineers, architects, archaeologists, etc.) having relevant, recent experience in the identification and conservation of cultural heritage resources. Appropriate evaluation involves gathering and recording information about the property sufficient to understand and substantiate its heritage value; determining cultural heritage value or interest based on the advice of qualified persons and with appropriate community input. If the property meets the criteria in Ontario Regulation 9/06 under the Ontario Heritage Act, it is a cultural heritage resource.

[†] The 40 year old threshold is an indicator of potential when conducting a preliminary survey for identification of cultural heritage resources. While the presence of a built feature that is 40 or more years old does not automatically signify cultural heritage value, it does make it more likely that the property could have cultural heritage value or interest. Similarly, if all the built features on a property are less than 40 years old, this does not automatically mean the property has no cultural heritage value. Note that age is not a criterion for designation under the *Ontario Heritage Act*.

Step 3 – Screening for Potential Impacts

YES	NO	Will the proposed undertaking/project involve or result in any of the following potential impacts to the subject property or an adjacent* property?
<input type="checkbox"/>	<input type="checkbox"/>	Destruction, removal or relocation of any, or part of any, heritage attribute or feature.
<input type="checkbox"/>	<input type="checkbox"/>	Alteration (which means a change in any manner and includes restoration, renovation, repair or disturbance).
<input type="checkbox"/>	<input type="checkbox"/>	Shadows created that alter the appearance of a heritage attribute or change the exposure or visibility of a natural feature or plantings, such as a garden.
<input type="checkbox"/>	<input type="checkbox"/>	Isolation of a heritage attribute from its surrounding environment, context or a significant relationship.
<input type="checkbox"/>	<input type="checkbox"/>	Direct or indirect obstruction of significant views or vistas from, within, or to a built or natural heritage feature.
<input type="checkbox"/>	<input type="checkbox"/>	A change in land use such as rezoning a battlefield from open space to residential use, allowing new development or site alteration to fill in the formerly open spaces.
<input type="checkbox"/>	<input type="checkbox"/>	Soil disturbance such as a change in grade, or an alteration of the drainage pattern, or excavation, etc.

* For the purposes of evaluating potential impacts of development and site alteration "adjacent" means: contiguous properties as well as properties that are separated from a heritage property by narrow strip of land used as a public or private road, highway, street, lane, trail, right-of way, walkway, green space, park, and/or easement or as otherwise defined in the municipal official plan.

Ministry of Tourism and Culture

Criteria for Determining Archaeological Potential

A Checklist for the Non-Specialist

Feature of Archaeological Potential	Yes	No	Unknown
1. Known archaeological sites within 300 m of property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Physical Features	Yes	No	Unknown
2. Water on or near the property If yes, what kind of water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a) Primary water source (lake, river, large creek, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ within 300 m, OR			
▪ 50 m for properties in northern Ontario and Canadian Shield terrain*			
b) Secondary water source (stream, spring, marsh, swamp, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ within 300 m, OR			
▪ 50 m for properties in northern Ontario and Canadian Shield terrain*			
c) Past water source (beach ridge, river bed, relic creek, ancient shoreline, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
▪ within 300 m, OR			
▪ 150 m for properties in northern Ontario and Canadian Shield terrain*			
3. Elevated topography on property (knolls, drumlins, eskers, plateaus, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Pockets of sandy soil in a clay or rocky area on property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Distinctive land formations on property (mounds, caverns, waterfalls, peninsulas, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Cultural Features	Yes	No	Unknown
6. Known burial site or cemetery on or adjacent to the property (cemetery is registered with the Cemeteries Regulation Unit)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Food or scarce resource harvest areas on property (traditional fishing locations, agricultural/berry extraction areas, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Indications of early Euro-Canadian settlement within 300 m of property (monuments, cemeteries, structures, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Early historic transportation routes within 100 m of property (historic road, trail, portage, rail corridor, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Property-specific Information	Yes	No	Unknown
10. Property is designated and/or listed under the <i>Ontario Heritage Act</i> (municipal register and lands described in Reg. 875 of the <i>Ontario Heritage Act</i>)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Local knowledge of archaeological potential of property (from aboriginal communities, heritage organisations, municipal heritage committees, etc)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Recent ground disturbance [†] (post-1960, extensive and deep land alterations)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The entire property should be screened for archaeological potential, not only the footprint where work is proposed.

*Northern Ontario is defined as Manitoulin Island, the Districts of Muskoka, Haliburton and Nipissing, and areas to the north. The Canadian Shield is defined as the area of Ontario underlain by the Precambrian Shield.

[†] Archaeological potential can be determined not to be present for either the entire property or a part(s) of it when the area under consideration has been subject to extensive and deep land alterations that have severely damaged the integrity of any archaeological resources. This is commonly referred to as 'disturbed' or 'disturbance', and may include: quarrying, major landscaping involving grading below topsoil, building footprints, sewage and infrastructure development. Activities such as agricultural cultivation, gardening, minor grading and landscaping do not necessarily affect archaeological potential.

Scoring the results:

If **Yes** to any of 1, 2a-c, 6 or 11

→ archaeological potential is **determined** – assessment is required

If **Yes** to two or more of 3 to 5 or 7-10

→ archaeological potential is **determined** – assessment is required

If **Yes** to 12 or **No** to 1 to 10

→ **low** archaeological potential is **determined** – assessment may or may not be required (depending on answers from 1-11)

If 3 or more **Unknown**

→ more research is required (**See note below for more information**)

Note: If archaeological potential features are unknown, a professional archaeologist licensed under the *Ontario Heritage Act* should be retained to carry out a minimum Stage 1 archaeological assessment report confirming potential or low potential. All reports are to be in compliance with provincial archaeological assessment standards and guidelines.

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

SOLID WASTE MANAGEMENT PLANNING

In September of 2000 the City set out to develop a comprehensive waste management plan to guide the management of municipal solid waste over the next 25 to 40 years. The study was largely initiated to address the City's low waste diversion rate and the diminishing waste disposal capacity at the City landfill on Fifth Line.

A series of studies were undertaken to assess existing waste management programs/services and identify potential system enhancements. Some of the key reports that were produced through these planning initiatives are described below and the full text is accessible by selecting the link.

1. **Current Waste Management System Summary Report (September, 2000)** – Inventoried and summarized current (i.e. 1999) waste management programs including costs and revenues.
2. **Alternative Waste Diversion/Collection Systems Report (June, 2001)** – Identified alternative waste diversion programs and the quantities that could potentially be diverted.
3. **Business and Implementation Plan (February, 2003)** – Identified costs of the existing and proposed waste management programs and explored strategies to recover those costs (bag limits, bag fees, increased tipping and gate fees).

The City recognized the importance of focusing their initial efforts to enhance waste diversion through system enhancements and more equitable user fee structures.

Congratulations Sault Ste. Marie! Thanks to your response and participation, the residential waste diversion rate has increased from 9% in 1999 to 34% in 2009.

The City plans to continue to promote and explore 3Rs (reduce, reuse, recycle) programs to further reduce the quantity of waste disposed. It is however recognized that some residual waste will continue to be generated for the foreseeable future that will require disposal.

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

In 2005 the City submitted and obtained approval of its **Solid Waste Management Plan Environmental Assessment Terms of Reference (July, 2005)**. The purpose of the Terms of Reference is to set the scope and describe the process that will be undertaken to address the problem of diminishing disposal capacity at the existing landfill.

The Environmental Assessment was initiated in 2006 and governmental, public, stakeholder and First Nation input was obtained on functionally different ways of managing municipal solid waste through the summer and fall of 2007. In the summer of

2010 the City reached an important milestone in its Environmental Assessment process. **The preferred waste management alternative for the City was identified as increased waste diversion and landfilling of the residual waste.**

The first steps in the Environmental Assessment Process are documented in the reports below.

1. **Solid Waste Management Environmental Assessment – Waste Quantity Projections and Existing Environment Profile** – waste quantity projections are developed for the 40-year planning period and the existing study area environment is described.
2. **Solid Waste Management Environmental Assessment – Alternatives to the Undertaking** – identifies and evaluates functionally different ways of managing waste.

Although not included within the City's Environmental Assessment process it is noteworthy that the City has committed to supply a portion of its municipal solid waste for processing in a privately owned and operated steam reformation (i.e. energy-from-waste) plant. The Elementa Group is currently completing an environmental screening (i.e. a streamlined Environmental Assessment) and a new plant is scheduled to become operational some time in the future. Any waste diverted to this facility in the future will reduce the quantity of waste disposed in the City's landfill thus increasing the site life of the landfill.

CURRENT ENVIRONMENTAL ASSESSMENT ACTIVITIES

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require Environmental Assessment (EA) Act approval, the EA study is now focusing on alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step to be completed in this phase consists of completing a non-site specific evaluation of two alternatives: developing a new landfill and expanding an existing landfill. This step will provide initial focus to the search for additional landfill capacity.

A preliminary evaluation of these alternatives has been completed by the project team. We are now seeking input from the public and stakeholders regarding the evaluation and the preliminary findings. We are also seeking input on the criteria to be used in the next step of the project which will involve the comparison of specific sites.

A Public Input Session is being conducted on Tuesday, April 19, 2011, from 6:30 to 9:00 p.m. in the Russ Ramsay Board Room, Level 3, Civic Center.

We will provide background information, update you on the City's achievements in increasing waste diversion and discuss the alternative approaches to landfilling residual solid waste. A principle objective of the session is to confirm whether the City should focus its efforts to obtain additional disposal capacity by expanding an existing landfill site or finding a location for a new site.

More details regarding the Public Input Session are included in the [Newsletter](#).

You are also encouraged to view the [Solid Waste Management Environmental Assessment - Alternative Methods – Step 1 \(Landfill Expansion versus Development of a New Site\)](#) report in advance of the session.

If you are unable to attend the public input session, we encourage you to complete the online survey at www.surveymonkey.com/B3DHFRM to provide comments.

Comments and questions may be directed to:

Mr. Rick Talvitie, P.Eng.
Project Manager
AECOM Canada Ltd.
523 Wellington Street East
Sault Ste. Marie, ON P6A 4J4

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580, 99 Foster Drive
Sault Ste. Marie, ON P6A 5N1

Phone: 705-942-2612

Phone: 705-759-5385

Fax: 705-942-3642

Fax: 705-541-7165

Email: rick.talvitie@aecom.com

Email: s.hamiltonbeach@cityssm.on.ca

If you would like to receive future information and notifications via email, please forward your email address to nancy.maahs@aecom.com. Please include the title "City of SSM Waste Disposal EA" in your message.

Talvitie, Rick

From: Talvitie, Rick
Sent: September 6, 2011 1:55 PM
To: 'lisa.myslicki@infrastructureontario.ca'
Cc: 'Catherine Taddo'; Kolli, Karla; 'Hoeun.Heng@infrastructureontario.ca'
Subject: City of Sault Ste. Marie Waste Management EA

Hi Lisa,

I am confirming receipt of your letter dated July 13, 2011.

All of the work completed up to and including the April, 2011 open house was completed in a generic manner without considering specific sites. Since that time we have initiated an investigation of conceptual expansion alternatives for the existing waste disposal site. At this time we have not identified any required land acquisition. As we continue with this process we will be indentifying area lands that may be impacted by a site expansion. As we get further into this process we will inventory the potentially impacted land owners. Should we identify Infrastructure Ontario lands that may be impacted we will provide relevant plans and details of the various alternatives and potential impacts for your consideration.

In the meantime, if you have any questions or require further clarification please contact the undersigned.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

July 13, 2011

To Mr. Rick Talvitie and Mrs. S. Hamilton Beach

RE: Solid Waste Management Environmental Assessment

Thank you for circulating Infrastructure Ontario (formerly the Ontario Realty Corporation) on your Notice of Public Input Session. Infrastructure Ontario (IO) is the strategic manager of the government's real property with a mandate of maintaining and optimizing value of the portfolio, while ensuring real estate decisions reflect public policy objectives of the government.

As you may be aware, IO is responsible for managing real property that is owned by the Ministry of Infrastructure (MOI). Our preliminary review of your notice and supporting information indicates that IO-managed property may be directly in the study area. As a result, your proposal may have the potential to impact properties and/or the activities of tenants present on IO-managed lands. Please note that as no map has been provided, IO cannot provide detailed information about the location of IO managed properties. More information is needed about the study area.

Potential Negative Impacts to IO Tenants and Lands

General Impacts

Negative environmental impacts associated with the project design and construction, such as the potential for dewatering, dust, noise and vibration impacts, and impacts to natural heritage features/habitat and functions, should be avoided and/or appropriately mitigated in accordance with applicable regulations best practices and Ministry of Natural Resources (MNR) and Ministry of the Environment (MOE) standards. Avoidance and mitigation options that characterize baseline conditions and quantify the potential impacts should be present as part of the EA project file. Details of appropriate mitigation, contingency plans and triggers for implementing contingency plans should also be present.

Impacts to Land holdings

Negative impacts to land holdings, such as the taking of developable parcels of IO managed land or fragmentation of utility or transportation corridors, should be avoided. If the potential for such impacts is present as part of this undertaking, you should contact the undersigned to discuss these issues at the earliest possible stage of your study.

If takings are suggested as part of any alternative these should be appropriately mapped and quantified within EA report documentation. In addition, details of appropriate mitigation and or next steps related to compensation for any required takings should be

present. IO requests circulation of the draft EA report prior to finalization if potential impacts to IO-managed lands are present as part of this study.

Heritage Management Process & Class Environmental Assessment (EA) Process

Should the proposed activities impact cultural heritage features, on IO managed lands, a request to examine cultural heritage issues which can include the cultural landscape, archaeology and places of sacred and secular value could be required. The Infrastructure Ontario Heritage Management Process should be used for identifying and conserving heritage properties in the provincial portfolio (this document can be downloaded from the Heritage section of our website: <http://www.ontariorealty.ca/What-We-Do/Heritage.htm>). Through this process, IO identifies, communicates and conserves the values of its heritage places. In addition, the Class EA ensures that IO considers the potential effects of proposed undertakings on the environment, including cultural heritage.

Potential Triggers Related to MOI's Class EA

The IO is required to follow the MOI Class Environmental Assessment Process for Realty Activities Not Related to Electricity Projects (MOI Class EA). The MOI Class EA applies to a wide range of realty and planning activities including leasing or letting, planning approvals, disposition, granting of easements, demolition and property maintenance/repair. For details on the IO Class EA please visit the Environment and Heritage page of our website found at <http://www.ontariorealty.ca/AssetFactory.aspx?did=2240>

If the MOI Class EA is triggered, and deferral to another ministry's or agency's Class EA or individual EA is requested, the alternative EA will be subject to a critical review prior to approval for any signoff of a deferral by the proponent. The alternative EA needs to fulfill the minimum criteria of the MOI Class EA. When evaluating an alternative EA there must be explicit reference to the corresponding undertaking in the MOI Class EA (e.g., if the proponent identifies the need to acquire land owned by MOI, then "acquisition of MOI-owned land", or similar statement, must be referenced in the EA document). Furthermore, sufficient levels of consultation with MOI's/IO's specific stakeholders, such as the Ontario Ministry of Natural Resources, must be documented with the relevant information corresponding to MOI's/IO's undertaking and the associated maps. In addition to archaeological and heritage reports, a Phase I Environmental Site Assessment (ESA), on IO lands should also be incorporated into the alternative EA study. Deficiencies in any of these requirements could result in an inability to defer to the alternative EA study and require completing MOI's Class EA prior to commencement of the proposed undertaking.

In summary, the purchase of MOI-owned/IO-managed lands or disposal of rights and responsibilities (e.g. easement) for IO-managed lands triggers the application of the MOI Class EA. If any of these realty activities affecting IO-managed lands are being proposed as part of any alternative, please contact the Sales and Marketing Group through IO's

main line (Phone: 416-327-3937, Toll Free: 1-877-863-9672), and contact the undersigned at your earliest convenience to discuss next steps.

Specific Comments

If an EA for this project is currently being undertaken and the undertaking directly affects all or in part any IO-managed property, please send the undersigned a copy of the Individual EA report and allow sufficient time (minimum of 30 calendar days) for comments and discussion prior to finalizing the report to ensure that all MOI Class EA requirements can be met through the EA study.

Concluding Comments

Thank you for the opportunity to provide initial comments on this undertaking. Please ensure that mapping is provided to IO at your earliest convenience to determine if IO managed properties are in the study area. I sincerely apologize for the timeliness of this reply. If you have any questions on the above I can be reached at the contacts below.

Sincerely,



Lisa Myslicki
Environmental Coordinator
Infrastructure Ontario - Professional Services
1 Dundas Street West,
Suite 2000, Toronto, Ontario
M5G 2L5
(416) 212-3768
lisa.myslicki@infrastructureontario.ca

Talvitie, Rick

From: Talvitie, Rick
Sent: February 3, 2012 11:10 AM
To: thughes@elementagroup.com
Cc: Catherine Taddo
Subject: Sault Ste. Marie Waste Management EA

Hi Tom,

I am the Project Manager leading the City's Waste Management Environmental Assessment.

We are currently progressing with this study and wanted to touch base with you to get some feedback on the current status of your proposed commercial demonstration project in Sault Ste. Marie.

Any information that you are able to provide regarding the planning aspects and implementation schedule would be greatly appreciated.

Also it would be appreciated if you could confirm that any information that you provide to me can be shared with the public. We will be conducting a public input session in March and there may be questions from the general public regarding your proposed facility.

Thank you.

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
23 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

February 15, 2012

Mr. Danny Sayers
Batchewana First Nation
236 Frontenac Street
Sault Ste. Marie, Ontario
P6A 5K9

Dear Mr. Sayers:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment**

We last contacted you in May, 2011 at which time you indicated that you are the Natural Resource Manager and would be the principle contact on behalf of Batchewana First Nations for the City's ongoing Waste Management Environmental Assessment.

At that time we requested a meeting with Chief and Council to update them on the progress being made with this study. To date a considerable level of study has been completed which has resulted in the following observations:

- The preferred approach to managing waste in the future is increased waste diversion through reduction, reuse and recycling (ie. 3Rs) and landfilling residual waste. (Note: the City has also endorsed an agreement with an independent waste-to-energy vendor to process a portion of the municipal solid waste).
- Currently the City is focusing resources on developing strategies to expand the City's existing landfill at 402 Fifth Line East to manage residual waste.

Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. In general, the options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of five options has been completed by the project team. Based on the results of the preliminary evaluation, the preliminary preferred approach is a moderate vertical expansion and a north and west expansion of the existing disposal footprint. The preliminary preferred option also includes landfill mining within the western portion of the existing disposal footprint.

We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the evaluation criteria considered and the preliminary findings. We would like to obtain as much input as possible from your community members. We believe this is an opportune time to meet with Batchewana Chief and Council and/or to conduct an open house in your community. In addition we will also be conducting a public input session in Sault Ste. Marie as outlined below. Everyone is welcome to attend. We have attached a Notice of Public Input Session which can be printed and posted in prominent locations within your community. In addition we will send a digital copy of the Notice for posting on your website.

You are also encouraged to view the **Project Newsletter** and/or the **Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)** report and/or the March 6th **Public Input Session displays**. A copy of these documents are attached for your information and reference. **Please make these documents available to your Community members at your Band office.** These documents are also available electronically on the City's website at www.cityssm.on.ca.

Details of the Public Input Session to be held in Sault Ste. Marie are provided below:

Location: Russ Ramsay Room, Civic Centre, 99 Foster Drive
Date/Time: Tuesday, March 6, 2012 - 3:30 pm to 7:30pm
Format: Open House - come any time between the times noted, view the displays, ask questions of the project team and provide input at the open house or at a later date.

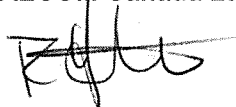
If you are unable to attend the March 6th session we also encourage community input through other means as outlined below.

There is an online survey available at <http://www.surveymonkey.com/s/R3DTZ8R> or alternatively you can send us your comments by email. Please include "**City of SSM Waste Management EA – Comments**" in the subject line of your email message.

We would appreciate receiving your input by April 6, 2012.

We look forward to hearing from you!

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Branch Manager

RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

February 15, 2012

Chief Lyle Sayers Sayers
Garden River First Nation
7 Shingwauk Street, RR #4
Garden River, Ontario
P6A 6Z8

Dear Mr. Sayers:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment**

The City of Sault Ste. Marie is continuing to move forward with its Waste Management Environmental Assessment. We last touched base with you in April, 2001 in advance of a Public Input Session that was conducted to assist in our evaluation of landfilling options.

We are grateful for the opportunities we have had to inform Band Council and Band members regarding this project. We met with Band Council on April 3, 2007 and June 8, 2010 and conducted an Open House in your Community on August 9, 2007.

To date a considerable level of study has been completed which has resulted in the following observations:

- The preferred approach to managing waste in the future is increased waste diversion through reduction, reuse and recycling (ie. 3Rs) and landfilling residual waste. (Note: the City has also endorsed an agreement with an independent waste-to-energy vendor to process a portion of the municipal solid waste).
- Currently the City is focusing resources on developing strategies to expand the City's existing landfill at 402 Fifth Line East to manage residual waste.

Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. In general, the options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of five options has been completed by the project team. Based on the results of the preliminary evaluation, the preliminary preferred approach is a moderate vertical expansion and a north and west expansion of the existing disposal footprint. The preliminary

preferred option also includes landfill mining within the western portion of the existing disposal footprint.

We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the evaluation criteria considered and the preliminary findings. We would like to obtain as much input as possible from your community members. We believe this is an opportune time to meet with Garden River Chief and Council and/or to conduct an open house in your community. In addition we will also be conducting a public input session in Sault Ste. Marie as outlined below. Everyone is welcome to attend. We have attached a Notice of Public Input Session which can be printed and posted in prominent locations within your community. In addition we will send a digital copy of the Notice for posting on your website.

You are also encouraged to view the **Project Newsletter** and/or the **Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)** report and/or the March 6th **Public Input Session displays**. A copy of these documents are attached for your information and reference. **Please make these documents available to your Community members at your Band office.** These documents are also available electronically on the City's website at www.cityssm.on.ca.

Details of the Public Input Session to be held in Sault Ste. Marie are provided below:

Location: Russ Ramsay Room, Civic Centre, 99 Foster Drive
Date/Time: Tuesday, March 6, 2012 - 3:30 pm to 7:30pm
Format: Open House - come any time between the times noted, view the displays, ask questions of the project team and provide input at the open house or at a later date.

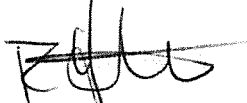
If you are unable to attend the March 6th session we also encourage community input through other means as outlined below.

There is an online survey available at <http://www.surveymonkey.com/s/R3DTZ8R> or alternatively you can send us your comments by email. Please include **"City of SSM Waste Management EA – Comments"** in the subject line of your email message.

We would appreciate receiving your input by April 6, 2012.

We look forward to hearing from you!

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Branch Manager

RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

February 17, 2012

Ms. Shauna Hansen
Metis Nation of Ontario
26 Queen Street East
Sault Ste. Marie, Ontario
P6A 1Y3

Dear Ms. Hansen:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment**

We last contacted you in April, 2011. To date a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

- The preferred approach to managing waste in the future is through increased waste diversion (ie. 3R's - reduction, reuse and recycling) and landfilling and remaining residual waste. (Note: the City has also endorsed an agreement with an independent waste-to-energy vendor to process a portion of the municipal solid waste using their steam reformation process).
- Given the challenges in siting a new landfill it is preferred to initially focus resources on developing strategies to expand the City's existing landfill at 402 Fifth Line East.

Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. In general, the options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of five options has been completed by the project team. Based on the results of the preliminary evaluation, the preliminary preferred approach is a moderate vertical expansion and a north and west expansion of the existing disposal footprint. The preliminary preferred option also includes landfill mining within the western portion of the existing disposal footprint.

We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the evaluation criteria considered and the preliminary findings. We would like to

obtain as much input as possible from your community members. We will be conducting a public input session in Sault Ste. Marie as outlined below. Everyone is welcome to attend. We have attached a Notice of the Public Input Session which can be printed and posted in prominent locations that are typically accessed by your members. In addition, we encourage you to post the Notice on your website.

You are also encouraged to view the **Project Newsletter**, and/or the **Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)** report and/or the March 6th **Public Input Session displays**. A copy of these documents are attached for your information and reference. These documents are also available electronically on the City's website at www.cityssm.on.ca

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There is an online survey available at <http://www.surveymonkey.com/s/R3DTZ8R> or alternatively you can send us your comments by email. Please include "**City of SSM Waste Management EA – Comments**" in the subject line of your email message.

We would appreciate receiving your input by April 6, 2012.

As always, we would also be pleased to meet with you at your convenience to discuss the project details. Please contact our office by telephone or email to arrange a meeting.

Sincerely,
AECOM Canada Ltd.

Rick Talvitie, P. Eng.
Project Manager

RT:nm

Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

February 17, 2012

Delivered w/ report

Mr. Kim Rainville
Missanabie Cree
559 Queen Street East
Sault Ste. Marie, Ontario
P6A 2A3

Dear Mr. Rainville:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment**

We last contacted you in April, 2011. To date a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

- The preferred approach to managing waste in the future is through increased waste diversion (ie. 3R's - reduction, reuse and recycling) and landfilling and remaining residual waste. (Note: the City has also endorsed an agreement with an independent waste-to-energy vendor to process a portion of the municipal solid waste using their steam reformation process).
- Given the challenges in siting a new landfill it is preferred to initially focus resources on developing strategies to expand the City's existing landfill at 402 Fifth Line East.

Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. In general, the options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

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We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the evaluation criteria considered and the preliminary findings. We would like to obtain as much input as possible from your community members. We will be conducting a public

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We would appreciate receiving your input by April 6, 2012.

As always, we would also be pleased to meet with you at your convenience to discuss the project details. Please contact our office by telephone or email to arrange a meeting.

Sincerely,
AECOM Canada Ltd.

Rick Talvitie, P. Eng.
Project Manager

RT:nm

Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

Talvitie, Rick

From: Talvitie, Rick
Sent: February 22, 2012 1:21 PM
To: 'pgreco@twp.prince.on.ca'
Cc: Maahs, Nancy
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: March 2012 NEWSLETTER.pdf; March 2012 1page NOTICE.pdf

Good Afternoon Peggy,

The Township of Prince is included in our Study area for the above referenced project.

I just wanted to let you know that we plan to drop off, later today or tomorrow, our latest report related to the above project. Please make this report available to your residents at the Municipal office. This report is also available digitally on the City's website. I have attached for your reference and information the following additional items:

- A Newsletter which provides a historical overview of the project.
- A Notice of an upcoming Public Input Session which can be posted on your website and/or printed and posted in prominent locations in your Community – We will also drop off several copies that can be posted on bulletin boards if you wish.

Let me know if you have any questions.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: February 22, 2012 1:44 PM
To: 'sayersl@gardenriver.org'
Cc: 'Catherine Taddo'
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: March 2012 NEWSLETTER.pdf; March 2012 1page NOTICE.pdf; february 2012 correspondence w lsayers grfn.pdf

Good Afternoon Chief Sayers,

I just wanted to let you know that I plan to stop by the Band office later today to drop off our latest report related to the above project. Please make this report available to your Band Members at the Band office. This report is also available digitally on the City's website. I have also attached, for your reference and information, the following additional items:

- A letter outlining the current status of the above project.
- A Newsletter which provides a historical overview of the project
- A Notice of an upcoming Public Input Session which can be posted on your website and/or printed and posted in prominent locations in your Community – I will also drop off several copies that can be posted on bulletin boards if you wish.

As outlined in the letter, we would be pleased to meet with Band Council and/or conduct an open house in your Community.

We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: February 22, 2012 1:42 PM
To: 'dannysayers@hotmail.com'
Cc: 'chiefdeansayers@batchewana.ca'; 'Catherine Taddo'
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: March 2012 1page NOTICE.pdf; March 2012 NEWSLETTER.pdf; february 2012 correspondence w dsayers.pdf

Good Afternoon Danny,

I just wanted to let you know that I plan to stop by the Band office later today or tomorrow to drop off our latest report related to the above project. Please make this report available to your Band Members at the Band office. This report is also available digitally on the City's website. I have also attached, for your reference and information, the following additional items:

- A letter outlining the current status of the above project.
- A Newsletter which provides a historical overview of the project
- A Notice of an upcoming Public Input Session which can be posted on your website and/or printed and posted in prominent locations in your Community – I will also drop off several copies that can be posted on bulletin boards if you wish.

As outlined in the letter, we would be pleased to meet with Band Council and/or conduct an open house in your Community.

We look forward to hearing from you.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

Talvitie, Rick

From: Talvitie, Rick
Sent: February 23, 2012 8:15 AM
To: 'sue@coo.org'
Cc: 'Catherine Taddo'
Subject: City of Sault Ste. Marie - Waste Management EA
Attachments: March 2012 NEWSLETTER.pdf

Hi Sue,

I hope all is well.

I wanted to keep you in the loop regarding the City's Waste Management Environmental Assessment.

I dropped off some information at the Garden River office yesterday. I have also attached a copy of a Newsletter that summarizes the historical and current project activities and provides details on an upcoming Public Input Session.

We hope to have representation from Garden River at the upcoming Public Input Session. We have also indicated in the package submitted to Chief Sayers that we would be pleased to make a presentation to Band Council and/or conduct an open house in Garden River.

Let me know if you have any questions or comments. We hope to hear from you in the near future.

Thanks.

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com



THE CITY OF SAULT STE. MARIE

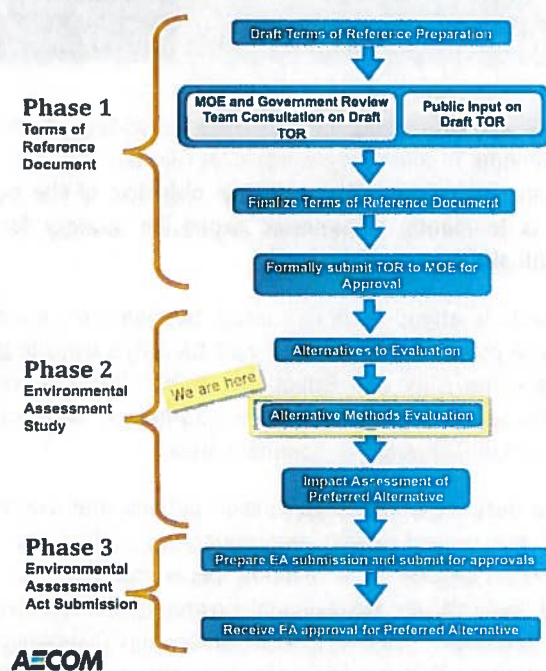
NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL ASSESSMENT (EA) PROCESS

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. There are several phases and tasks involved in completing an EA as outlined in the graphic below.

ENVIRONMENTAL ASSESSMENT WORK PLAN



The City is currently mid-way through Phase 2 of the EA Process and is interested in obtaining your input related to the current activities.

BACKGROUND

Phase 1 of the EA process included public consultation and culminated with the Ministry of Environments approval of the project Terms of Reference (ToR) in 2005. The ToR provides a framework or roadmap for completing the EA and summarizes the tasks and activities to be undertaken by the proponent.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the **preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.** The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the entire residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

The flexibility of the preferred alternative is particularly important given the City's contract with The Elementa Group (an energy-from-waste service provider) for the annual processing of at least 12,500 metric tonnes of municipal solid waste. Elementa is currently negotiating an energy purchase agreement and intends to construct and operate a new 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility in the future will reduce the quantity of residual waste requiring disposal in a landfill.

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require Environmental Assessment (EA) Act approval, the EA study is now focusing on alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step in this phase consisted of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. To identify a preferred approach to landfilling waste, the alternatives were compared using the following six criteria groups:

- | | |
|---------------------------------|----------------------------------|
| 1. Natural environment; | 4. Cost; |
| 2. Social-Cultural environment; | 5. Technical considerations; and |
| 3. Economic environment; | 6. Transportation. |

A Public Input Session was held in April, 2011 to present the landfill alternatives being considered. **The evaluation and response from consultation concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted that an expansion requires less land, displaces fewer people and/or social/natural features, disrupts fewer people (i.e. one site versus two sites creating nuisance impacts), costs less, typically encounters fewer challenges in gaining technical approvals, and reduces the number of facilities the City must manage.



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

CURRENT ACTIVITIES

The second step in the Alternative Methods task focuses on the best approach to expand the existing landfill site at 402 Fifth Line East in the City of Sault Ste. Marie. Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. Options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate previously disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of the expansion options has been completed by the project team. We are now seeking input from the Community, government agencies, stakeholders, and First Nations regarding the evaluation criteria considered and the preliminary findings.

CONTACT US

You may also contact the Consultant Project Manager or the City's Land Development and Environmental Engineer by email, mail or telephone if you have questions or would like additional information.

Mr. Rick Talvitie, P.Eng.

Project Manager

AECOM

523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612

Fax: 705-942-3642

Email: rick.talvitie@aecom.com

Ms. Catherine Taddo, P.Eng.

Land Development and Environmental Engineer

City of Sault Ste. Marie

P.O. Box 580

99 Foster Drive,

Sault Ste. Marie, ON, P6A 5N1

Phone: (705) 759-5380

Fax: (705) 541-7165

Email: c.taddo@cityssm.on.ca

HOW CAN I PROVIDE INPUT?

If you are interested in discussing the expansion options, the criteria used in the evaluation and the preliminary findings we encourage you to attend the upcoming public input session!

YOU'RE INVITED!

Date: Tuesday, March 6, 2012

Location: Civic Centre – 99 Foster Drive

Russ Ramsay Room

Time: 3:30PM to 7:30PM

*Refreshments to
be provided.*

We will provide you with background information update you on the City's achievements in increasing waste diversion and discuss, with you, the expansion options. **The principle objective of the public consultation is to identify a preferred expansion strategy for the existing landfill site.**

If you are unable to attend the Public Input Session there are other opportunities to provide input. Please visit the City's website www.cityssm.on.ca - View City Hall Bulletins – Public Input Session – Solid Waste Management to obtain further information, complete an online questionnaire, or access a comment sheet.

In addition, a description of the expansion options, the evaluation criteria, and the project team's preliminary evaluation are also available on the website in a working paper prepared for this session titled "Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)". This working paper may also be viewed at the locations noted below commencing on February 21, 2012.

AECOM Canada Ltd.	523 Wellington Street
Civic Centre Engineering and Planning	99 Foster Drive, 5th Flr.
Public Works and Transportation	128 Sackville Road
Main Library	50 East Street
Churchill Branch Library	301 Lake Street
Korah Branch Library	496 Second Line
Township of Prince Municipal Office	3042 Second Line West
Batchewana First Nation	236 Frontenac Street
Garden River First Nation	7 Shingwauk Street
Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date significant progress has been made.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and **the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.** The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the entire residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

In April, 2011 a Public Input Session was held to present the non-site specific landfill alternatives being considered. **The evaluation and response from consultation concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted that an expansion requires less land, displaces fewer people and/or social/natural features, disrupts fewer people (i.e. one site versus two sites creating nuisance impacts), costs less, typically encounters fewer challenges in gaining technical approvals, and reduces the number of facilities the City must manage.

CURRENT ACTIVITIES

Presently the project team is focusing on **the best approach to expand the existing landfill site at 402 Fifth Line East in the City of Sault Ste. Marie.** Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. Options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate previously disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of the expansion options has been completed by the project team. **We are now seeking input from the Community, government agencies, stakeholders, and First Nations regarding the evaluation criteria considered and the preliminary findings.**

PUBLIC INPUT SESSION

If you are interested in discussing the expansion options, the criteria used in the evaluation and the preliminary findings, we encourage you to attend the upcoming public input session!

We will provide you with background information, update you on the City's achievements in increasing waste diversion and discuss, with you, the expansion options. **The principle objective of the public consultation is to identify a preferred expansion strategy for the existing landfill site.**

The expansion options, the evaluation criteria, and the project team's preliminary evaluation are also available on the City's website (www.cityssm.on.ca - View City Hall Bulletins – Public Input Session – Solid Waste Management) in a working paper prepared for this session titled "Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)". This working paper may also be viewed at the locations noted below commencing on February 21, 2012.

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Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East

CONTACT US

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng.
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
F: 705-942-3642
E-mail: rick.talvitie@aecom.com

Ms. Catherine Taddo, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5380
Fax: (705) 541-7165
Email: c.taddo@cityssm.on.ca

YOU'RE INVITED!

Date: Tuesday, March 6, 2012
Location: Civic Centre – Russ Ramsay Room
Time: 3:30PM to 7:30PM

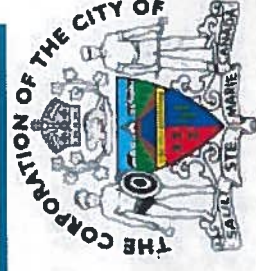
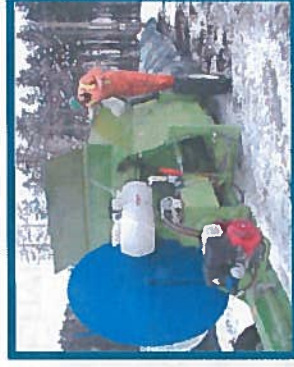
Refreshments to be provided.

If you cannot attend the public input session in person, we still want to hear from you! Just go to the City's website www.cityssm.on.ca - View City Hall Bulletins – Public Input Session – Solid Waste Management review the Alternatives Method – Step 2 Report and fill out our online questionnaire or comment sheet. A link to the online questionnaire is provided on the City's website.



Solid Waste Management Environmental Assessment

COUNCIL PRESENTATION



March, 2012

Objectives of the Presentation

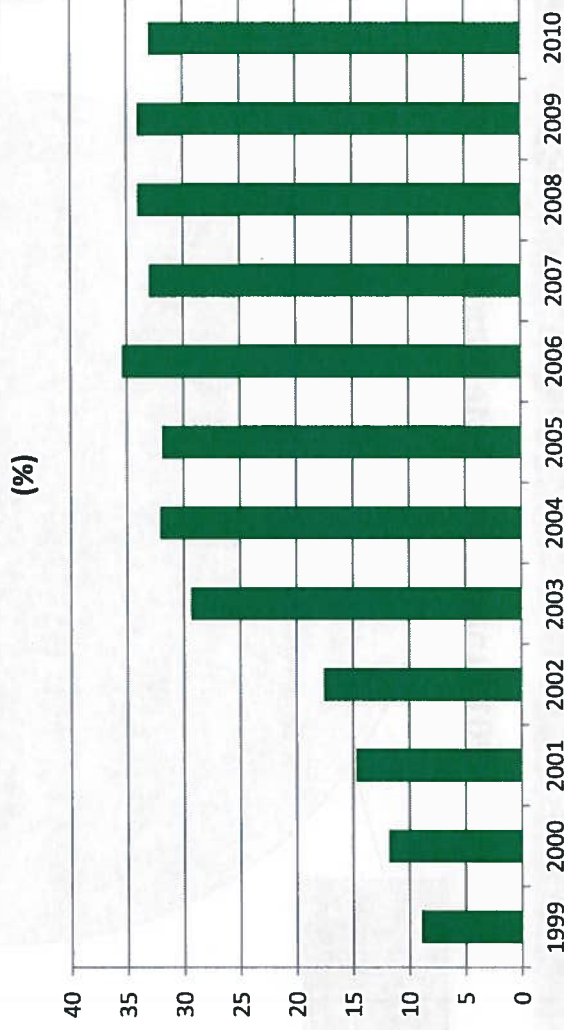
- Provide Council and residents with an update on waste management planning activities and results;
- Review project need;
- Provide an overview of the Environmental Assessment process and where we are at in the process;
- Present the criteria and approach used in the evaluation of site expansion options;
- Present the preliminary results of the evaluation completed by the project team;
- Identify the next steps in the EA process; and
- Answer your questions.



Project History - Diversion

- Waste Management Planning – series of reports completed early to mid-2000's resulting in significant enhancements to residential waste diversion

Residential Waste Diversion Rate (1999 to 2010)

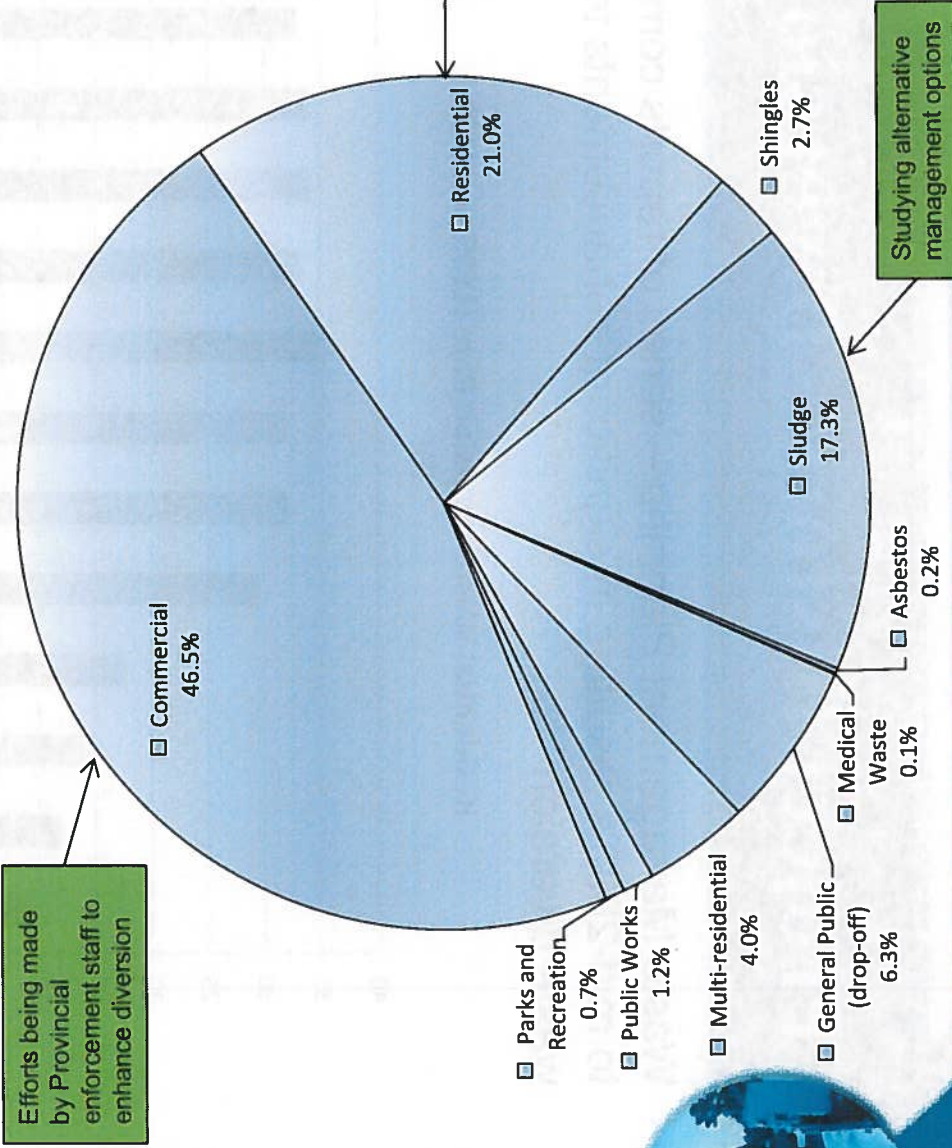


Increased residential diversion rate from 9% in 1999 to 33% to 35% in recent years



Project History - Diversion

2010 Landfilled Waste Types



Project History - Project Need

- The estimated remaining service life of the existing landfill is 7 to 10 years depending on future population changes, in-situ subsidence and waste generation, diversion and disposal rates. The low end of this range is used for planning purposes.
- Despite significant success in enhancing waste diversion, additional disposal capacity is required.

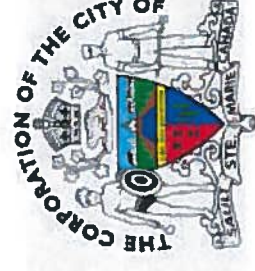




What is an EA?

Purpose = *“to protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province”.*

- The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. The EA process serves several important purposes:
 - Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, First Nations, stakeholders and the public.
 - Identifying potential problems prior to construction
 - Promoting good environmental planning practices
 - Improving community acceptance
 - Better protecting the environment



Project History

- MOE approval of EA ToR in late 2005
- EA work initiated by AECOM/Dillon – summer 2006
- “Alternatives To” (functionally different ways of managing waste) work completed and public consultation undertaken in summer of 2007
- Late 2008 to spring 2010 - Project delayed to allow time for the Enquest pilot project to mature
- Fall 2009 - City endorses waste supply agreement with Elementa
- City approval to resume EA process - Elementa will generate residual waste and is unable to manage the entire waste disposal quantity
- Spring 2010 – announced the preferred “Alternative To”



Project History – Selected “Alternative TO”

Based on the results of the evaluation and input received the preferred long-term approach to managing waste in SSM is:

- Increased 3Rs (Reduce/Reuse/Recycle)
- Landfilling residual waste

Why?

- Can comply with regulations and policies
- City is experienced with these waste management initiatives
- Flexible to changes in the waste stream (e.g. population, waste generation, diversion)
- Can accept most residual waste from a Waste-to-Energy facility
- Cost efficient

The EA will now focus on identifying and evaluating alternative methods of landfilling waste (i.e. alternative locations and designs)



Project History

- Conducted a Public Information Session in June 2010 to announce the selected Alternative To
- Initiated the Alternative Methods Phase (alternative locations and designs)
- Completed a generic non-site specific evaluation of developing a new landfill versus expanding an existing site (Step 1)
- Consulted with the public in the spring of 2011 regarding the generic options



Project History - Preferred Landfilling Method

Based on the results of the evaluation and input received the preferred method of landfilling waste = expansion of an existing site

Why?

- Likely less potential for displacement and disruption
- Only one landfill site to manage and maintain
- Cost effective
- Community adaptation
- Likely fewer challenges in gaining approvals

The EA will now focus on how to best expand the existing site



Overview of Expansion Options

- Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand.
- Options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining or a combination of these methodologies.
- All options include enhancements to better control groundwater quality related to the existing site.
- Some options require replacement/relocation of existing on-site infrastructure and some require enhanced compaction to provide the target disposal capacity



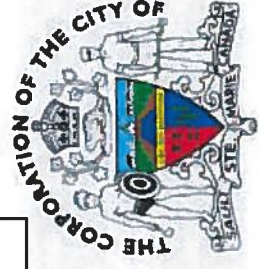
Evaluation of Expansion Options

- The evaluation has been completed using a two-step approach:
 - Step 1 – identify a preferred expansion area and shape;
 - Step 2 – assess the pros and cons of incorporating landfill mining.
- Mining involves excavation of previously disposed waste and cover material. Mined waste is fed through screens which separates coarse waste from fine materials. Recyclables are separated and sent for processing, remaining residual waste disposed of in the disposal site and fines (primarily sand) are stockpiled for use as cover.



Evaluation Criteria Groups

Criterion	Definition
Natural Environment	Addresses the potential for displacement and/or disruption of natural environmental features (terrestrial features, aquatic features, ground water and surface water)
Social Cultural Environment	Addresses the potential for displacement and/or disruption of social/cultural environmental features (residents, community features, future land use plans, heritage and archaeological resources, public health and safety)
Economics	Addresses the potential for displacement and/or disruption of existing businesses and resources (agriculture, forestry, mining)
Cost	Considers the lifecycle cost of the alternative.
Technical Considerations	Considers technical aspects of each option including impacts on existing site infrastructure and ease of site development.
Transportation	Considers the impacts of traffic volumes accessing the site and potential impacts to the airport and the movement of farm equipment.



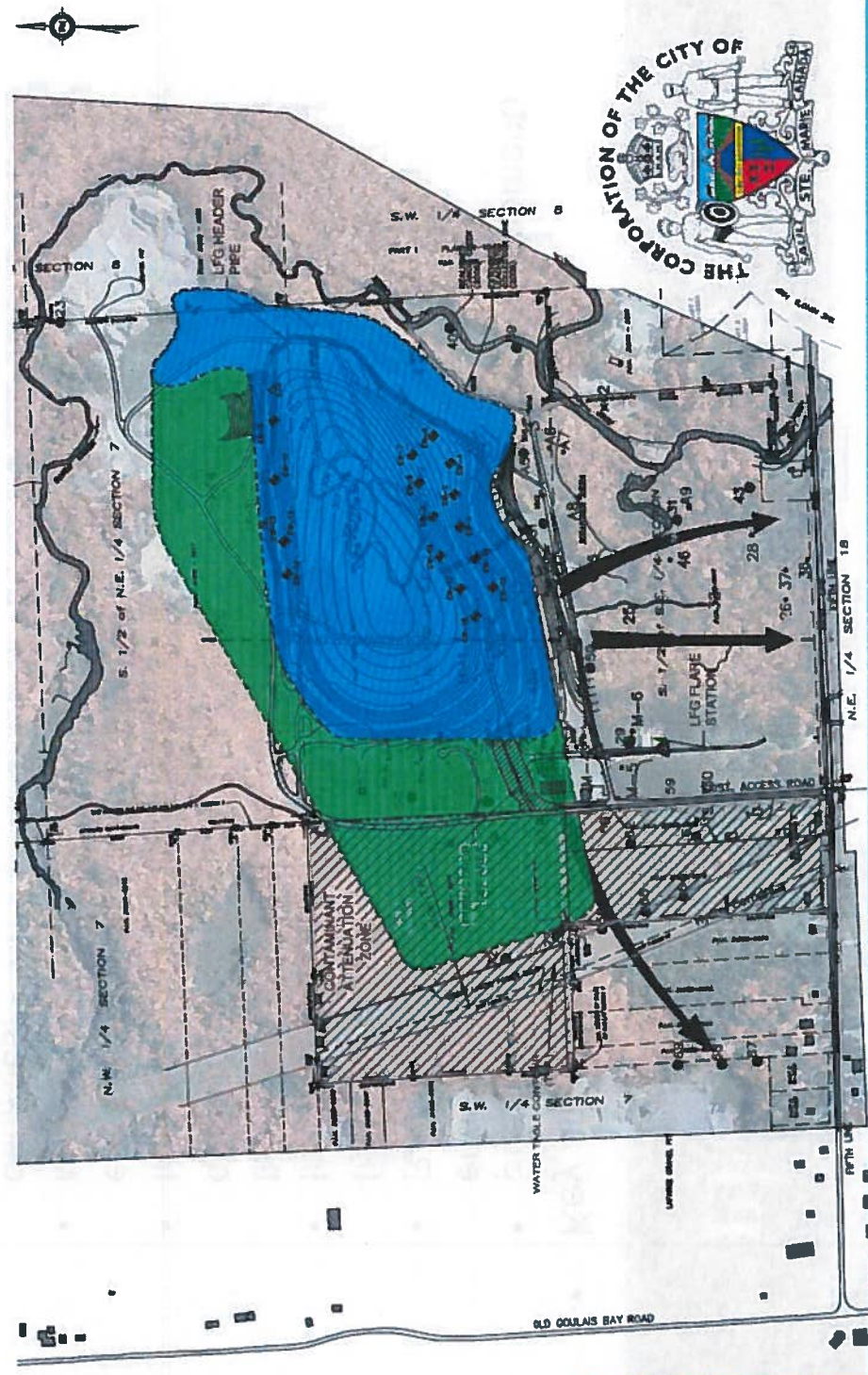


Evaluation of Expansion Options

- Data collection and analysis
- Technical disciplines initially compare options relative to each other and rank them under each criterion
- Present the evaluation in a table or matrix format with the rationale for the rankings
- Present to the public and solicit input from community members, stakeholders, First Nations, and governmental agencies
- Make adjustments to the evaluation based on input received
- Select a preferred option

Preliminary Preferred Expansion Option

- On the basis of the **preliminary** evaluation, the preliminary preferred expansion option is presented below



Preliminary Preferred Option

- Key advantages relative to other options include:
 - Site development (i.e. geometry and storm water management) enhanced relative to Options 2 and 4.
 - Reduced average excavation depth in west expansion area (i.e. 11m).
 - Includes a liner beneath the waste within the western portion of the existing disposal footprint enhancing long term groundwater quality.
 - Includes a liner over existing waste in areas of overlap to further enhance groundwater quality.
 - Meets target capacity at current estimated waste densities.



Next Steps

- Solicit governmental, community First Nation and stakeholder input on the preliminary preferred expansion option – do you agree/disagree – why?
- Re-assess (if needed) and finalize the Step 2 evaluation based on input received
- Announce the preferred Step 2 - Alternative Method (i.e. preferred expansion option)
- Initiate a detailed impact assessment for the preferred option
- Continue to investigate ways to improve waste diversion through 3Rs initiatives



May 29, 2012

Alex MacDonald
1433 Great Northern Road
Sault Ste. Marie
P6A 5K7

Dear Mr. MacDonald:

Project No: 60395

**Regarding: City of Sault Ste. Marie Solid Waste Management Environmental Assessment
March 6, 2012 Public Input Session**

Thank you for taking the time to attend the Public Input Session and to submit a comment sheet and questionnaire. The questions included on your comment sheet and our **responses** are provided below.

1. What is the depth of the deepest well south of the leachate collection system? **Please see the attached ground water monitor details. The attached table includes details on all monitors at the landfill site and the monitors that have been highlighted in blue represent the 17 monitors located south and south east of the leachate collector. Each year several of these monitors are sampled and analysed. The attached table includes the depth of the monitors as well as the top and bottom elevations of the monitors. The deepest monitor in this area is 38.85m deep and this monitor also reaches the lowest elevation in this area (ie. 230.33).**
2. What is the maximum depth of the leachate collector? **The lowest elevation along the leachate collector is approximately 268m or a depth of approximately 6m.**

We hope we have adequately addressed your questions.

We have also had an opportunity to review your questionnaire responses. We appreciate the input provided and we will ensure that you receive any future mailings related to this project.

Should you have any other questions or require clarification please contact the undersigned.

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Branch Manager

RT:nm

cc: Catherine Taddo, City of Sault Ste. Marie Engineering
Karla Kolli, Dillon Consulting



AECOM

523 Wellington Street East
Sault Ste. Marie, ON, Canada P6A 2M4
www.aecom.com

705 942 2612 tel
705 942 3642 fax

June 5, 2012

Mr. Gord Acton,
Wishart Law Firm
390 Bay Street, Suite 500
Sault Ste. Marie, Ontario
P6A 1X2

Dear Mr. Acton:

Project No: 60395/60117627

Regarding: City of Sault Ste. Marie Waste Management Environmental Assessment

Thank you for your letter dated March 30, 2012 outlining your Client's concerns related to the proposed expansion of the existing Municipal landfill site located at 402 Fifth Line East.

Based on our careful review of your correspondence it is our understanding that Mr. Caswell is concerned with the safety of his drinking water supply and the potential for it to become contaminated from leachate generated at the landfill site. We have had an opportunity to discuss this issue with Mr. Caswell at past public consultation events and we appreciate and understand his concern.

In the paragraphs that follow we have summarized the leachate management features present at the existing site, the ongoing groundwater monitoring program, and preliminary details of the preferred expansion option including future leachate management features.

Existing Leachate Management Features

The City's landfill is an engineered site and includes a number of management features to mitigate offsite groundwater impacts.

Within the site there is a groundwater divide and groundwater generally flows from the north to the south /south-east and south-west. A horizontal leachate collector is located along the south and south eastern periphery of the site and a series of nine purge wells are located along the western boundary (ie. downstream of the landfill) which collect potentially contaminated groundwater (ie. leachate) and convey it to a pumping station and ultimately to the City's west end sewage treatment plant. These ground water management features are shown on the attached Figure.

Ground Water Monitoring System

In addition to the groundwater management features there is also an extensive network of ground water monitors. Approximately 206 monitors have been installed over time and approximately 97 monitors remain active. These monitors are used to assess groundwater quality compliance. Approximately 30 – 40 of these monitors are sampled and analyzed multiple times each year and a report is prepared annually documenting the results. The site is required to meet stringent Ministry of Environment compliance criteria (ie: Reasonable Use Concept) at the property boundary. The MOE's Reasonable Use Concept is described below.

The MOE created guideline B-7 Incorporation of the Reasonable Use Concept into MOE Groundwater Management Activities to assist the Ministry in protecting groundwater quality. The principle objective of the guideline is to protect reasonable uses of groundwater for present and future users of groundwater in the province.

The first step in the process is to identify the reasonable use of groundwater on a neighbouring property taking into consideration present groundwater use, potential future groundwater use and existing quality and quantity of groundwater in the area.

In the case of the landfill site, the reasonable use of groundwater on a neighbouring property is for domestic consumption.

Once a reasonable use has been identified the allowable concentrations for various parameters are identified using Procedure B-7-1— Determination of Contaminant Limits and Attenuation Zones. The calculation of allowable concentrations at the property boundary has been developed to provide a margin of safety relative to the drinking water standards. The MOE's drinking water quality criteria are subdivided into health related and aesthetic or non-health related parameters. For health related parameters the groundwater quality can only be degraded by 25% of the difference between the drinking water standard and the background water quality (Note: background water quality is the natural water quality when unaffected by external sources). For example if the background concentration of a contaminant is 20 units and the drinking water standard for the same parameter is 200 units then the allowable concentration at the property boundary = $20 + (200 - 20) * 0.25 = 65$ units. For aesthetic parameters allowable degradation is 50% of the difference between the drinking water standard and the background concentration. Therefore in the example cited above, if the contaminant was considered to be a non-health related parameter the maximum acceptable concentration at the property boundary would be $20 + (200 - 20) * 0.50 = 110$ units.

The annual Monitoring Report is prepared by a Hydrogeologist and includes analyses and interpretation of ground water quality based on samples collected on several occasions throughout the year. The report documents changes in water quality and reports on compliance with the Reasonable Use Concept. The historical reports are available from the City should you or your Client wish to review them.

Preferred Expansion Option

The City and its Consultants have had an opportunity to review and assess the input received through the public consultation process and the preferred expansion option consists of a moderate increase in

height of the landfill mass, an expansion of the footprint to the north and west of the existing disposal footprint and landfill mining within the western portion of the existing footprint. Mining involves excavation and screening of previously disposed waste and cover material to separate coarse waste and recyclables from fine materials. The recyclables are sent for processing, coarse residual waste is disposed of in the disposal site and fines (primarily sand) are stockpiled for use as cover.

Within the proposed expansion areas the site will be fully lined to capture leachate generated from precipitation filtering through the waste (ie. much like a swimming pool liner). In addition the area of the existing site where mining is proposed will also include a liner. The installation of liners will enhance groundwater quality control relative to the existing effective controls.

The proposed groundwater quality management system at the expanded site will also include the installation of an impermeable liner over a portion of the existing waste where the expansion overlaps the existing disposal footprint. This will further reduce the quantity of leachate generated at the site. A horizontal groundwater collector is also proposed along the western boundary of the expansion area to replace the purge wells and collect any potentially contaminated groundwater from the existing site that continues to flow to the south west.

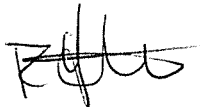
The objective is to capitalize on the proposed expansion to not only protect groundwater quality from the expansion areas but also to enhance the management features that presently exist at the existing disposal footprint.

Conclusion

The City is now moving forward with the Impact Assessment phase of the project. This phase of the project is intended to look in detail at the potential impacts of the proposed expansion. We can assure you that we will be addressing the concern raised by Mr. Caswell. We plan to consider mitigation options including the feasibility of extending the municipal distribution system to serve Mr. Caswell.

We will continue to keep Mr. Caswell informed of the project progress as we achieve future milestones and will continue to inform him of future opportunities for public input.

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Branch Manager

RT:nm
Encl.

June 5, 2012

Mrs. Rhonda Bateman
Sault Ste. Marie Region Source Protection Committee
1100 Fifth Line East
Sault Ste. Marie, ON
P6A 5K7

Dear Mrs. Bateman:

Project No: 60395/60117627

Regarding: City of Sault Ste. Marie Waste Management Environmental Assessment

Thank you for allowing us to make a presentation to the Source Protection Committee on March 5, 2012 and thank you for the comments included in your letter of April 12, 2012. In the paragraphs that follow we have reiterated some of the points made during the presentation, provided some details regarding the preferred expansion option and addressed your comments included in your April 12, 2012 correspondence.

Existing and Proposed Landfill Groundwater Quality Controls

The City and its Consultants have had an opportunity to review and assess the input received through the public consultation process and the preferred expansion option consists of a moderate increase in height of the landfill mass, an expansion of the footprint to the north and west of the existing disposal footprint and landfill mining within the western portion of the existing footprint. Mining involves excavation and screening of previously disposed waste and cover material to separate coarse waste and recyclables from fine materials. The recyclables are sent for processing, coarse residual waste is disposed of in the disposal site and fines (primarily sand) are stockpiled for use as cover.

The City understands the importance of the Significant Recharge Area and has developed specific Official Plan Policies to protect this resource.

In addition the City hopes to leverage the proposed site expansion to not only protect water quality related to the expansion areas but also to enhance the current protection measures associated with the existing disposal footprint. Details of the existing and proposed groundwater protection measures are provided below.

The existing site is an "engineered" site and includes leachate management features to mitigate groundwater impacts. Within the site there is a groundwater divide and groundwater generally flows from the north to south /south-east and south-west. A horizontal leachate collector is located along the south and south eastern periphery of the site and a series of nine purge wells are located along the western boundary (ie. downstream of the landfill) which collect potentially impacted groundwater (ie. leachate) and convey it to a pumping station and ultimately to the City's west end sewage treatment plant. These ground water management features are shown on the attached Figure.

In addition to the groundwater management features there is also an extensive network of ground water monitors. Approximately 206 monitors have been installed over time and approximately 97 monitors remain active. These monitors are used to assess groundwater quality compliance. Approximately 30 – 40 of these monitors are sampled and analyzed multiple times each year and a report is prepared annually documenting the results. The site is required to meet stringent Ministry of Environment compliance criteria (ie: Reasonable Use Concept) at the property boundary. Further details can be provided regarding the Reasonable use Concept if desired.

The proposed expansion areas will be fully lined to capture leachate generated from precipitation filtering through the waste (ie. much like a swimming pool liner). The leachate will be directed to the sewage treatment plant. In addition the area of the existing site where mining is proposed will also include a liner. The installation of liners will enhance groundwater quality control relative to the existing effective controls.

The proposed groundwater quality management system at the expanded site will also include the installation of an impermeable liner over a portion of the existing waste where the expansion overlaps the existing disposal footprint. This will improve ground water quality by reducing the quantity of leachate generated at the site. A horizontal groundwater collector is also proposed along the western boundary of the expansion area to replace the purge wells and collect potentially impacted groundwater flowing south-westerly from the existing site.

SPC Comments

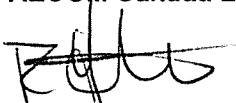
The SPC commented that “consideration should be given by the City of SSM and the PUC to petition the expansion of the current Provincial Groundwater Monitoring Network (PGMN). This expansion could allow for additional groundwater quality and quantity monitoring away from the landfill. This additional monitoring capability would increase the predictability of any potential threat of off-site contamination and allow operators of the municipal drinking water distribution network to have ample notice of any impending issues.”

As noted above, the City has an extensive network of monitors within and immediately adjacent to the landfill site. We agree that it would be beneficial to establish monitors elsewhere within the City and upstream of PUC's production wells to assess groundwater quality changes, trends and potential impacts. As suggested in your letter this would allow for early identification of potential problems from a wide variety of potential sources of contamination and allow adequate lead time to take action.

We are fully supportive of petitioning the expansion of the PGMN. It is our understanding that further dialogue is required between the SPC, the City and PUC to identify a preferred approach to moving forward with this initiative. We are prepared to assist in any way that we can.

We will continue to keep the SPC informed of the project progress as we work towards future milestones and will continue to inform you of future opportunities for public input.

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Branch Manager

Encl.

Talvitie, Rick

From: Talvitie, Rick
Sent: June 6, 2012 8:24 AM
To: 'pjmclarty@shaw.ca'
Cc: 'Catherine Taddo'; 'Kolli, Karla'
Subject: City of Sault Ste. Marie Waste Management EA

Hi Peter,

Thank you for your comments included in you March 30, 2012 email.

The City and its Consultants have had an opportunity to review and assess the input received through the public consultation process and the preferred expansion option consists of a moderate increase in height of the landfill mass, an expansion of the footprint to the north and west of the existing disposal footprint and landfill mining within the western portion of the existing footprint. Mining involves excavation and screening of previously disposed waste and cover material to separate coarse waste and recyclables from fine materials. The recyclables are sent for processing, coarse residual waste is disposed of in the disposal site and fines (primarily sand) are stockpiled for use as cover.

We have reviewed your comments and have embedded our responses below.

Again, thank you for the meaningful input that you provided. We will continue to keep you apprised of project progress and other opportunities for public input.

Let me know if you have any further questions.

Regards,

Rick Talvitie, P. Eng.
Manager, Sault Ste. Marie Office
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com

-----Original Message-----

From: Peter McLarty [<mailto:pjmclarty@shaw.ca>]
Sent: March 30, 2012 11:45 AM
To: Talvitie, Rick
Cc: Rhonda Bateman; Roy Bertolo; Susan Hamilton-Beach; Andrew Hallett; Hal McGonigal; Peter Tonazzo; Subhash Verma; Ralph Yanni; Larry Wooly
Subject: "City of SSM Waste Management EA-comments"

Good morning Rick

I am submitting these comments as "a concerned citizen" even though you are aware that I also sit on the SPC. Hopefully the SPC will respond with its own concerns.

I would never recommend that a landfill be located on a SGRA (significant groundwater recharge area).

[<Rick Talvitie>] Response:

We understand your comment regarding the significant groundwater recharge area that underlies the existing landfill. It is however important to understand that the existing landfill site includes effective leachate collection and management features and the proposed expansion will provide an opportunity to enhance the existing controls.

The existing site is an "engineered" site and includes leachate management features to mitigate groundwater impacts. Within the site there is a groundwater divide and groundwater generally flows from the north to the south /south-east and south-west. A horizontal leachate collector is located along the south and south eastern periphery of the site and a series of nine purge wells are located along the western boundary (ie. downstream of the landfill) which collect potentially impacted groundwater (ie. leachate) and convey it to a pumping station and ultimately to the City's west end sewage treatment plant. These groundwater management features are shown on the attached Figure.

In addition to the groundwater management features there is also an extensive network of ground water monitors. Approximately 206 monitors have been installed over time and approximately 97 monitors remain active. These monitors are used to assess groundwater quality compliance. Approximately 30 - 40 of these monitors are sampled and analyzed multiple times each year and a report is prepared annually documenting the results. The site is required to meet stringent Ministry of Environment compliance criteria (ie: Reasonable Use Concept) at the property boundary. Further details can be provided regarding the Reasonable use Concept if desired.

The proposed expansion areas will be fully lined to capture leachate generated from precipitation filtering through the waste (ie. much like a swimming pool liner). The leachate will be directed to the sewage treatment plant. In addition the area of the existing site where mining is proposed will also include a liner. The installation of liners will enhance groundwater quality control relative to the existing controls.

The proposed groundwater quality management system at the expanded site will also include the installation of an impermeable liner over a portion of the existing waste where the expansion overlaps the existing disposal footprint. This will improve ground water quality by reducing the quantity of leachate generated at the site. A horizontal groundwater collector is also proposed along the western boundary of the expansion area to replace the purge wells that collect potentially impacted groundwater flowing south-westerly from the existing site.

The objective is to capitalize on the proposed expansion to not only protect groundwater quality related to the expansion areas but also to enhance the management features that presently exist for the existing disposal footprint.

2. Expansion of the current site is more politically saleable than a new site. We will always require some form of landfill.

[<Rick Talvitie>] Response:

The conclusion to expand the existing site was reached through the Environmental Assessment (EA) process. An EA documents the results of the planning and decision-making process and includes identification and evaluation of alternatives, their environmental effects, impact mitigation and management measures, and a record of consultation. A significant level of study has been completed to date. Through the earlier phases of the study it was concluded that the City should continue to focus effort on 3R's (reduce, reuse, recycle) to reduce the quantity of waste requiring disposal and that any residual waste should be managed through disposal in a landfill. The City also endorsed a waste supply agreement with an Energy-from-Waste vendor (ie. Elementa). The City has committed the residential curbside waste to Elementa but the construction of their processing facility has been delayed indefinitely. In the meantime the City plans to move forward with its Waste Management EA.

The focus of the EA then turned to the best method of landfilling residual waste and considered the advantages and disadvantages of the expanding an existing waste disposal site versus establishing a new site. Through that process, which included public consultation, it was concluded that the City should initially focus resources on developing a strategy to expand an existing site. A preferred expansion strategy has now been identified and the City is proceeding with a detailed impact assessment for the preferred expansion option.

3. Allowing the expansion of the present site allows us an opportunity to help lower the risk presented by the present landfill operation by:

a) ensuring ongoing monitoring of the present landfill operation

b) providing an opportunity to partially (possibly totally) cover the current footprint thus limiting the amount of infiltration from precipitation

[<Rick Talvitie>] Response:

We acknowledge and agree that the expansion of the existing site will provide an opportunity to enhance groundwater protection measures and reduce the overall risks associated with the site. The enhanced protection measures are described in our response to 1 above. The City will continue to monitor this site through its operating life and following its closure until the Ministry of Environment is satisfied that no further monitoring is required.

4. Although costly and potentially hazardous to workers and the air, I would recommend mining the current landfill (thus removing some of the current hazardous material) and placing a new liner under the old site.

[<Rick Talvitie>] Response:

As noted in our response to 1 above, landfill mining is currently included in the preferred expansion strategy. We acknowledge and agree that there are nuisance and safety issues associated with the implementation of landfill mining. Landfill mining has however been successfully implemented elsewhere within the Province of Ontario and best management practices and lessons learned in other jurisdictions will be considered as part of the detailed impact assessment. Care will be taken to mitigate nuisance and safety issues.

5. The City should push very hard to get either an Elementa facility or ANOTHER approved waste-to-energy facility.

[<Rick Talvitie>] Response:

The City has endorsed a waste supply agreement with Elementa to process at least the waste generated in the residential curbside program. It is unlikely that the City can entertain any other vendor offers until the agreement is satisfied or comes to an end.

6. The City should be pushing the "ministry" to fast-track composting.

[<Rick Talvitie>] Response:

Under the current regulatory regime composting can be undertaken in the Province of Ontario and the City has a very successful open windrow leaf and yard waste composting program. The City has evaluated the feasibility of establishing a curbside organics collection program and concluded that it may be cost effective if the biosolids from the two water pollution control plants can be included as a feedstock in the process. A significant investment is required to construct a suitable composting facility that is capable of accommodating residential organics and/or biosolids. The processing of these feedstocks together would enhance economies of scale and reduce the overall unit processing costs. The MOE has been considering modifications to the current regulations to possibly allow the use of biosolids as a feedstock. Although progress has been made they have been unable to provide a timeframe for the release and implementation of any modified regulations. The City continues to keep

apprised of this initiative and will take any regulatory changes into consideration in the future.

Regards

Peter McLarty

755 Fifth Line

705-759-3393

January 20, 2016

Chief Paul Syrette
Garden River First Nation
7 Shingwauk Street, RR #4
Garden River, Ontario
P6A 6Z8

Dear Chief Syrette:

Project No: 60117627 (60395)

Regarding: City of Sault Ste. Marie

**Waste Management Environmental Assessment
Impact Assessment for the Preferred Expansion Option**

The City of Sault Ste. Marie is continuing to move forward with its Waste Management Environmental Assessment. We last contacted you in February, 2012.

We are grateful for the opportunities we have had to inform Band Council and Band members regarding this project. We met with Band Council on April 3, 2007 and June 8, 2010 and conducted an Open House in your Community on August 9, 2007.

To date, a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

- The preferred approach to managing waste in the future is through increased waste diversion (ie. 3R's - reduction, reuse and recycling) and landfilling any remaining residual waste.
- The preferred approach to landfilling residual waste is an expansion of the existing City owned and operated disposal site located at 402 Fifth Line East in the City of Sault Ste. Marie.
- The preferred expansion option incorporates a moderate increase in the height or elevation of the waste and an expansion of the disposal footprint to the north and west of the existing footprint. The preferred option also includes landfill mining within the western portion of the existing disposal footprint to enhance groundwater protection. This process involves excavating existing disposed waste and cover material, recovering earthen material or "fines" and returning the waste to the disposal footprint. All mined and expansion areas will include the construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and direct it to the City's sewage treatment plant for treatment. The existing disposal footprint and proposed mining and expansion areas are highlighted in a figure in the attached Newsletter.

We have now completed a detailed impact assessment for the preferred expansion option. The detailed impact assessment is a focussed investigation and analysis to identify potential environmental impacts resulting from the construction or operational changes associated with the proposed expansion. The impact assessment also considered opportunities for enhanced mitigation that otherwise would not likely be implemented in the absence of the proposed expansion.

Eleven reports were prepared which included expertise in the following disciplines:

- Biology (terrestrial and aquatic)
- Geotechnical
- Groundwater
- Atmospheric (acoustic and air quality)
- Surface water
- Socio-economic
- Visual
- Traffic
- Archaeological/Cultural
- Planned land use

We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the impact assessment work. We would like to obtain as much input as possible from your community members. **We believe this is an opportune time to meet with you and your Council and/or to conduct an open house in your community. In addition we will be conducting a public open house in Sault Ste. Marie as outlined below. Everyone is welcome to attend.** We have attached a Notice of the Public Input Session which can be printed or copied and posted in prominent locations that are typically accessed by your community members. In addition, we encourage you to post the Notice on your website.

You are also encouraged to view the **Project Newsletter**, and the February 9th **Public Open House displays**. Copies of these documents are attached for your information and reference. **Please make these documents available to your Community members at your Band office.** These documents are also available electronically on the City's website at saultstemarie.ca/SolidWasteEA.

Details of the Public Open House to be held in Sault Ste. Marie are provided below:

Location: Russ Ramsay Room, Civic Centre, 99 Foster Drive
Date/Time: Tuesday, February 9, 2016 - 3:30 pm to 7:30pm
Format: Open House - come any time between the times noted, view the displays, ask questions of the project team and provide input at the open house or at a later date.

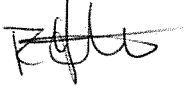
If you are unable to attend the February 9th session we also encourage community input through other means. Please review the project materials at the link provided above and access a comment sheet to provide feedback or simply send the project team an email (nancy.maahs@aecom.com). Please include **"City of SSM Waste Management EA – Comments"** in the subject line of your email message. We have also included a copy of the comment sheet that can be reproduced for use by your members if desired.

We would appreciate receiving your input by March 11, 2016.

As always, we would also be pleased to meet with you and your Council at your convenience to discuss the project details and to arrange dedicated consultation activities tailored to meet your Community needs. Please contact our office by telephone or email to arrange a meeting.

We look forward to hearing from you!

Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Project Manager
RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

January 20, 2016

Mr. Danny Sayers
Batchewana First Nation
236 Frontenac Street
Sault Ste. Marie, Ontario
P6A 5K9

Dear Mr. Sayers:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment
Impact Assessment for the Preferred Expansion Option**

The City of Sault Ste. Marie continues to move forward with its Waste Management Environmental Assessment (EA). We last contacted you in February, 2012. To date, a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

- The preferred approach to managing waste in the future is through increased waste diversion (ie. 3R's - reduction, reuse and recycling) and landfilling any remaining residual waste.
- The preferred approach to landfilling residual waste is an expansion of the existing City owned and operated disposal site located at 402 Fifth Line East in the City of Sault Ste. Marie.
- The preferred expansion option incorporates a moderate increase in the height or elevation of the waste and an expansion of the disposal footprint to the north and west of the existing footprint. The preferred option also includes landfill mining within the western portion of the existing disposal footprint to enhance groundwater protection. This process involves excavating existing disposed waste and cover material, recovering earthen material or "fines" and returning the waste to the disposal footprint. All mined and expansion areas will include the construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and direct it to the City's sewage treatment plant for treatment. The existing disposal footprint and proposed mining and expansion areas are highlighted in a figure in the attached Newsletter.

We have now completed a detailed impact assessment for the preferred expansion option. The detailed impact assessment is a focussed investigation and analysis to identify potential environmental impacts resulting from the construction or operational changes associated with the proposed expansion. The impact assessment also considered opportunities for enhanced mitigation that otherwise would not likely be implemented in the absence of the proposed expansion.

Eleven reports were prepared which included expertise in the following disciplines:

- Biology (terrestrial and aquatic)
- Geotechnical
- Groundwater
- Atmospheric (acoustic and air quality)
- Surface water
- Socio-economic
- Visual
- Traffic
- Archaeological/Cultural
- Planned land use

We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the impact assessment work. We would like to obtain as much input as possible from your community members. **We believe this is an opportune time to meet with Batchewana Chief and Council and/or to conduct an open house in your community. In addition we will be conducting a public open house in Sault Ste. Marie as outlined below. Everyone is welcome to attend.** We have attached a Notice of the Public Input Session which can be printed or copied and posted in prominent locations that are typically accessed by your community members. In addition, we encourage you to post the Notice on your website.

You are also encouraged to view the **Project Newsletter**, and the February 9th **Public Open House displays**. Copies of these documents are attached for your information and reference. **Please make these documents available to your Community members at your Band office.** These documents are also available electronically on the City's website at saultstemarie.ca/SolidWasteEA.

Details of the Public Open House to be held in Sault Ste. Marie are provided below:

Location: Russ Ramsay Room, Civic Centre, 99 Foster Drive
Date/Time: Tuesday, February 9, 2016 - 3:30 pm to 7:30pm
Format: Open House - come any time between the times noted, view the displays, ask questions of the project team and provide input at the open house or at a later date.

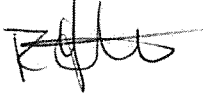
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We would appreciate receiving your input by March 11, 2016.

As always, we would also be pleased to meet with you and/or Chief and Council at your convenience to discuss the project details and to arrange dedicated consultation activities tailored to meet your Community needs. Please contact our office by telephone or email to arrange a meeting.

We look forward to hearing from you!

Sincerely,
AECOM Canada Ltd.

A handwritten signature in black ink, appearing to read 'RT', with a horizontal line drawn through it.

Rick Talvitie, P. Eng.
Project Manager
RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

January 20, 2016

Ms. Shauna Hansen
Metis Nation of Ontario
26 Queen Street East
Sault Ste. Marie, Ontario
P6A 1Y3

Dear Ms. Hansen:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment
Impact Assessment for the Preferred Expansion Option**

The City of Sault Ste. Marie continues to move forward with its Waste Management Environmental Assessment (EA). We last contacted you in February, 2012. To date, a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

- The preferred approach to managing waste in the future is through increased waste diversion (ie. 3R's - reduction, reuse and recycling) and landfilling any remaining residual waste.
- The preferred approach to landfilling residual waste is an expansion of the existing City owned and operated disposal site located at 402 Fifth Line East in the City of Sault Ste. Marie.
- The preferred expansion option incorporates a moderate increase in the height or elevation of the waste and an expansion of the disposal footprint to the north and west of the existing footprint. The preferred option also includes landfill mining within the western portion of the existing disposal footprint to enhance groundwater protection. This process involves excavating existing disposed waste and cover material, recovering earthen material or "fines" and returning the waste to the disposal footprint. All mined and expansion areas will include the construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and direct it to the City's sewage treatment plant for treatment. The existing disposal footprint and proposed mining and expansion areas are highlighted in a figure in the attached Newsletter.

We have now completed a detailed impact assessment for the preferred expansion option. The detailed impact assessment is a focussed investigation and analysis to identify potential environmental impacts resulting from the construction or operational changes associated with the proposed expansion. The impact assessment also considered opportunities for enhanced mitigation that otherwise would not likely be implemented in the absence of the proposed expansion.

Eleven reports were prepared which included expertise in the following disciplines:

- Biology (terrestrial and aquatic)
- Geotechnical
- Groundwater
- Atmospheric (acoustic and air quality)
- Surface water
- Socio-economic
- Visual
- Traffic
- Archaeological/Cultural
- Planned land use

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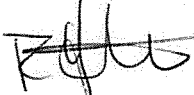
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Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Project Manager
RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting

January 20, 2016

Mr. Kim Rainville
Missanabie Cree
559 Queen Street East
Sault Ste. Marie, Ontario
P6A 2A3

Dear Mr. Rainville:

Project No: 60117627 (60395)

**Regarding: City of Sault Ste. Marie
Waste Management Environmental Assessment
Impact Assessment for the Preferred Expansion Option**

We last contacted you in February, 2012. To date, a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

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We would appreciate receiving your input by March 11, 2016.

As always, we would also be pleased to meet with you at your convenience to discuss the project details. Please contact our office by telephone or email to arrange a meeting.

Sincerely,
AECOM Canada Ltd.

Rick Talvitie, P. Eng.
Project Manager
RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting



AECOM

523 Wellington Street East
Sault Ste. Marie, ON, Canada P6A 2M4
www.aecom.com

705 942 2612 tel
705 942 3642 fax

January 26, 2016

Peggy Greco, CAO / Clerk-Treasurer
Prince Township Municipal Office
3042 Second Line West
Prince Township, ON
P6A 6K4

Dear Ms. Greco:

Project No: 60117627 (60395)

Regarding: City of Sault Ste. Marie

**Waste Management Environmental Assessment
Impact Assessment for the Preferred Expansion Option**

The City of Sault Ste. Marie continues to move forward with its Waste Management Environmental Assessment (EA). We last contacted you in February, 2012. To date, a considerable level of study has been completed in developing and assessing the preferred approach to managing waste in the City of Sault Ste. Marie. The work completed to date has resulted in the following observations:

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Eleven reports were prepared which included expertise in the following disciplines:

- | | |
|--|---------------------------|
| - Biology (terrestrial and aquatic) | - Socio-economic |
| - Geotechnical | - Visual |
| - Groundwater | - Traffic |
| - Atmospheric (acoustic and air quality) | - Archaeological/Cultural |
| - Surface water | - Planned land use |

We are now seeking input from Government agencies, stakeholders, First Nations and the general public regarding the impact assessment work. We would like to obtain as much input as possible from your residents. **We will be conducting a public open house in Sault Ste. Marie as outlined below. Everyone is welcome to attend.** We have attached a Notice of the Public Input Session which can be printed or copied and posted in prominent locations that are typically accessed by your residents. In addition, we encourage you to post the Notice on your website.

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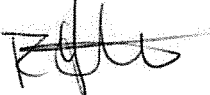
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Sincerely,
AECOM Canada Ltd.



Rick Talvitie, P. Eng.
Project Manager
RT:nm
Encl.

cc: C. Taddo, City Engineering
K. Kolli, Dillon Consulting





Solid Waste Management Environmental Assessment




Project Progress Update for Council












February, 2016

Introductions





- AECOM has been involved in the City's waste management planning activities since 2000 and Dillon has been involved with the design, development and operation of the City's Fifth Line landfill since the late 80's.
- AECOM and Dillon have teamed to deliver the waste management Environmental Assessment.
- Rick Talvitie, P.Eng. (AECOM) is the overall Project Manager and Karla Kolli (Dillon) is managing Dillon's work streams.




Objectives of the Update

- Review project need;
- Overview of EA process;
- Historical overview of the waste management Environmental Assessment tasks and activities completed to date;
- Present the conclusions and recommendations from the most recent work stream - Impact Assessment for the preferred landfill expansion option;
- Summarize next steps; and
- Answer questions.

Project Need

- **The estimated remaining service life of the existing landfill is 6.8 years (at the end of 2014). The estimated site life may be impacted by future population changes, in-situ subsidence and waste generation, diversion and disposal rates.**
- Despite significant success in enhancing waste diversion, additional disposal capacity is required.



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DILLON
CRANE & TOWER

What is an EA?

Purpose = "to protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province".

- The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. The EA process serves several important purposes:
 - Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, First Nations, stakeholders and the public.
 - Identifying potential problems prior to construction
 - Promoting good environmental planning practices
 - Improving community acceptance
 - Better protecting the environment

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The EA Process

ENVIRONMENTAL ASSESSMENT WORK PLAN

Phase 1
Terms of Reference Document

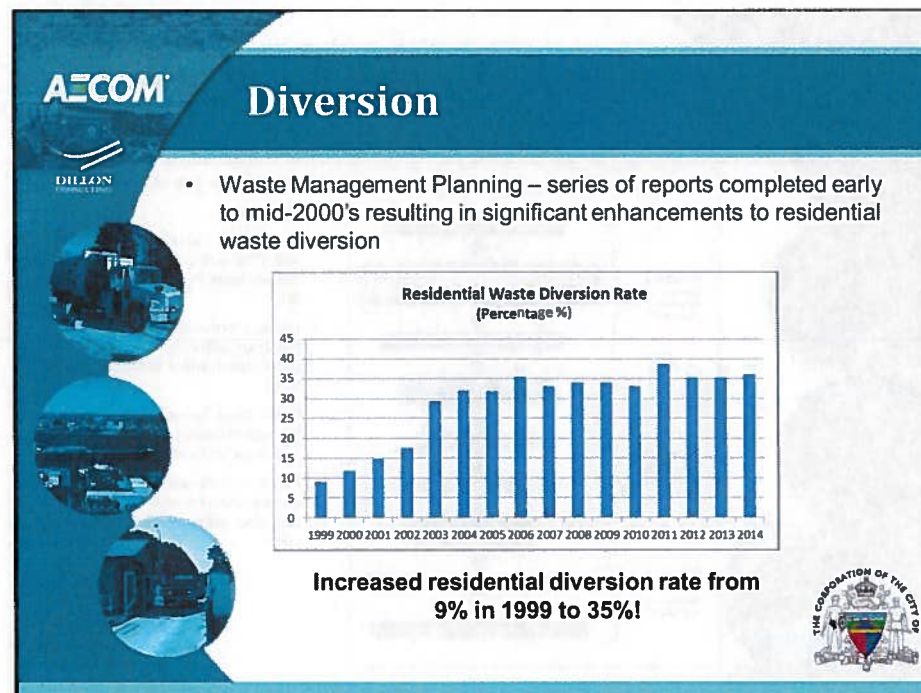
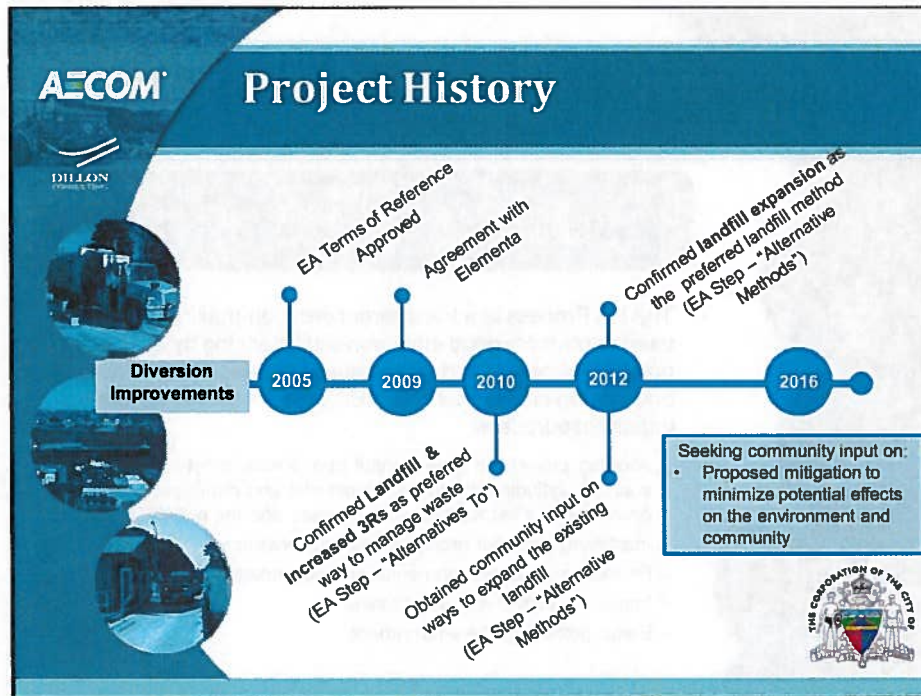
Phase 2
Environmental Assessment Study




Phase 3
Environmental Assessment Act Submission

Consultation to date has included:

- Newsletters
- Public Input Sessions and meetings with First Nations and other stakeholders in the summer/fall of 2007
- Public Information Center and meetings with First Nations and other stakeholders in the summer of 2010
- Public Input Session and correspondence with First Nations and other stakeholders in April 2011
- Public Input Session and correspondence with First Nations and other stakeholders in March 2012

THE CORPORATION OF THE CITY OF



Landfill & Increased 3Rs - Rationale


EA Step – “Alternatives to” Conclusion

Based on the results of the evaluation and input received the preferred long-term approach to managing waste in SSM is:

- Increased 3Rs (Reduce/Reuse/Recycle); and
- Landfilling residual waste.

Why?

- Can comply with regulations and policies.
- City is experienced with these waste management initiatives.
- Flexible to changes in the waste stream (e.g. population, waste generation, diversion).
- Can accept non-hazardous residual waste from a Waste-to-Energy facility.
- Cost efficient.







Landfill Expansion - Rationale




EA Step – “Alternative Methods” Conclusion

Based on the results of the evaluation and input received the preferred method of landfilling waste = expansion of an existing site.

Why?

- Likely less potential for displacement and disruption.
- Only one landfill site to manage and maintain.
- Cost effective.
- Community adaptation.
- Likely fewer challenges in gaining approvals.




North and West Expansion with Mining – Rationale

EA Step – “Alternative Methods” Conclusion

Based on the results of the evaluation and input received, the preferred expansion option = Option 3 - North and West Expansion B with Landfill Mining.

Why?

- Site development (i.e. geometry and storm water management) enhanced relative to Options 2 and 4.
- Reduced average excavation depth in west expansion area (i.e. 11m).
- Includes a liner beneath the waste within the western portion of the existing disposal footprint enhancing long term ground water quality.
- Includes a liner over existing waste in areas of overlap to further enhance ground water quality.
- Meets target capacity at current estimated waste densities.










Preferred Option




■	Existing Landfill Area
■	Proposed Horizontal Expansion Area
■	Proposed Landfill Mining Area






Preferred Option

- Fully engineered site with a liner installed in expansion areas, mined areas, and interfaces between new and existing waste.
- Horizontal collector at west edge of new footprint.
- Staged expansion of the landfill gas management system.
- Construction of a biosolids processing facility.











Impact Assessment

What is it?





- Focused investigation and analysis to identify potential impacts to the environment resulting from the construction or changes in the operation of the expanded landfill.
- Also includes consideration of potential opportunities for enhanced mitigation that otherwise would not likely be implemented in the absence of the proposed expansion.




Impact Assessment




- The detailed impact assessment required expertise in the following disciplines:
 - ✓ Biology (terrestrial and aquatic);
 - ✓ Geotechnical;
 - ✓ Groundwater;
 - ✓ Atmospheric (acoustic and air quality);
 - ✓ Surface water;
 - ✓ Socio-economic;
 - ✓ Visual;
 - ✓ Traffic;
 - ✓ Archaeological/cultural; and
 - ✓ Planned land use.

Impact Assessment – Natural Environment Mitigation Strategies

- Site design to mitigate potential for impact to groundwater. Also allows opportunity to address existing groundwater issues.
- Erosion and sediment controls to be implemented during construction (e.g. use silt fences to reduce risk of soil washing into watercourses).
- Woodland edge management (e.g. avoid using heavy machinery over roots of edge trees).
- Wildlife impact management during construction (e.g. avoiding bird nesting seasons when clearing).
- Apply a vegetative cap on final landform.
- Reforestation following closure to compensate for removal.
- Manage storm water to remove sediment and ensure no increase in peak flows in adjacent watercourses.




Impact Assessment – Social Environment Mitigation Strategies




- Dust management to include hard surface perimeter road and dust mitigation as necessary.
- Sound attenuation berm adjacent to south-west corner of compost pad.
- Implementation of a vermin and wildlife management plan.
- Landfill gas management to minimize green house gas emissions.
- Permanent and/or portable odour neutralizing spray system.
- Development of an odour management plan for landfill mining to include consideration of meteorological conditions, periphery odour misting, area of exposed waste, frequent application of cover, bypass screening of odourous waste; use of chemical and biological neutralizers, etc.

Complete technical review of Highway 17/Fifth Line intersection and sight distance improvements.

Rezone south-west portion of the property.


Manage future development in the vicinity of the site.






Impact Assessment –Communication, Monitoring and Reporting


- Undertake a comprehensive ground and surface water monitoring program and report the results annually.
- Review the site development and operations annually, identify areas for improvement and report the results.
- Complete National Pollutant Release Inventory (NPRI) and landfill gas management reporting annually.
- Monitor future traffic volumes and Hwy 17/Fifth Line intersection operations.
- Monitor onsite and offsite odours and proactively manage mining operations.
- Monitor stormwater quality discharge from onsite ponds.
- Maintain regular communication with local residents
- Maintain a formal complaint recording and response procedure.



Next Steps

- Conduct Public Open House – Tuesday February 9, 2016.
- Review all input received and modify impact mitigation as needed.
- Prepare the Design and Operation Report for the site.
- Prepare Environmental Assessment Document.
- Issue the EA Report including the D&O report to the MOECC.





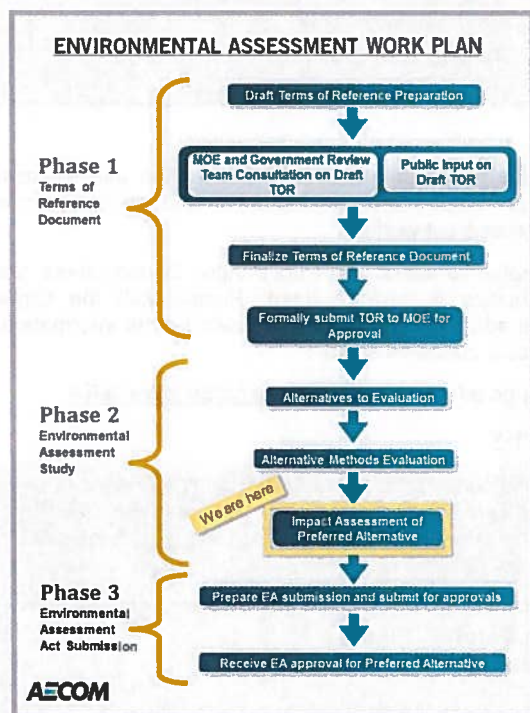
THE CITY OF SAULT STE. MARIE

JANUARY, 2016 NEWSLETTER

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL ASSESSMENT (EA) PROCESS

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. There are several phases and tasks involved in completing an EA as outlined in the graphic below.



The City is finalizing Phase 2 of the EA Process and is currently preparing the EA submission. **We are interested in obtaining your input related to the current activities.**

BACKGROUND

Phase 1 of the EA process included public consultation and culminated with the Ministry of Environment and Climate Change's (MOECC) approval of the project Terms of Reference (ToR) in 2005. The ToR provides a framework or roadmap for completing the EA and summarizes the tasks and activities to be undertaken by the proponent.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the **preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.** The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require EA Act approval, the EA study turned its focus to alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step in this phase consisted of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. To identify a preferred approach to landfilling waste, the alternatives were compared using the following seven criteria groups:

- | | |
|--------------------------------|--|
| 1. Natural environment | 5. Capability of managing waste quality and quantity |
| 2. Social-cultural environment | 6. Proven technical capacity |
| 3. Economic environment | 7. Cost |
| 4. Flexibility of the system | |

A Public Input Session was held in April, 2011 to present the landfill alternatives being considered. **The evaluation and response from consultation concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted that an expansion requires less land, displaces fewer people and/or social/natural features, disrupts fewer people (i.e., one site versus two sites creating nuisance impacts), costs less, typically encounters fewer challenges in gaining technical approvals, and reduces the number of facilities the City must manage.

The second step in the Alternative Methods task focused on the best approach to expand the City's existing landfill site at 402 Fifth Line East by identifying and comparatively evaluating site expansion alternatives. Options considered included horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate previously disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies. A Public Input Session was held March, 2012 to obtain feedback on the evaluation criteria and the preliminary findings.

The evaluation and response from consultation concluded the preferred site expansion alternative consists of a modest increase in the height of the waste, an expansion of the disposal footprint to the west and north and mining a portion of the existing waste to enhance groundwater quality. All mined and expansion areas will include the



THE CITY OF SAULT STE. MARIE

JANUARY, 2016 NEWSLETTER

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and ultimately direct it to the City's sewage treatment plant for treatment.

Current Activities

The last part of Phase 2 involves assessing the potential impacts of the conceptual design and planned operation of the preferred site expansion alternative and identification of suitable mitigating measures. Multiple disciplines were involved to assess the various potential impacts of the expansion on site, off site, in the vicinity and along the access route. The access route was considered to be along Fifth Line from Highway 17 to the site (which is the same route used today). Measures to reduce or eliminate potential effects on the environment were recommended.

The disciplines that were involved include:

Natural Environment

- Biology
- Geology / hydrogeology
- Surface water

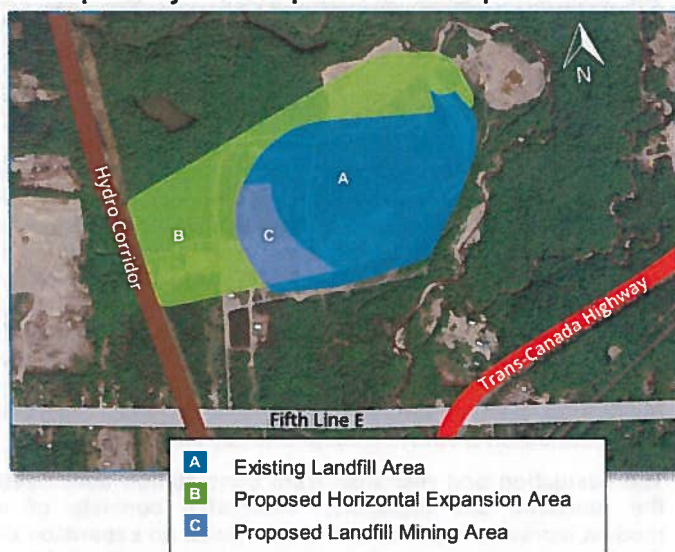
Socio-Cultural Environment

- Cultural (archaeology and heritage)
- Social
- Planned land use
- Visual
- Atmospheric (dust, noise, air quality)

Economic

- Businesses
- Transportation

Conceptual Layout of Proposed Landfill Expansion Area



HOW CAN I PROVIDE INPUT?

We will be hosting a Public Open House where you will learn about the results of the impact assessment work and we will ask for your feedback. If you are interested in discussing the project, we encourage you to attend the upcoming public open house!

YOU'RE INVITED!

Date: Tuesday, February 9, 2016
Location: Civic Centre – 99 Foster Drive
Russ Ramsay Room
Time: 3:30 pm to 7:30 pm
Refreshments to be provided.

We will provide you with background information and discuss, with you, the preferred site expansion option and the results from the impact assessment work.

If you are unable to attend the Public Input Session there are other opportunities to provide input. Please visit the City's website at the address noted below to obtain further information, and / or access a comment sheet.

Project webpage address: saultstemarie.ca/SolidWasteEA

CONTACT US

You may also contact the Consultant Project Manager or the City's Land Development and Environmental Engineer by email, mail or telephone if you have questions or would like additional information.

Mr. Rick Talvitie, P.Eng.

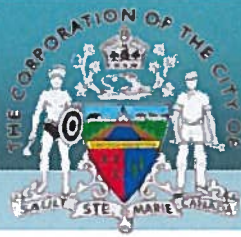
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612
Email: rick.talvitie@aecom.com

Ms. Catherine Taddo, P.Eng.

Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580, 99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1

Phone: (705) 759-5380
Email: c.taddo@cityssm.on.ca



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date significant progress has been made.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and **the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.** The preferred alternative was presented at an Open House in June, 2010.

The study noted:

- landfills can be designed and operated to comply with regulations and policies;
- landfill gas can be collected and flared or recovered to generate electricity;
- landfills can manage the entire residual waste stream;
- landfills are flexible to changes in waste quality and quantities; and
- landfilling is cost effective.

In April, 2011 a Public Input Session was held to present the non-site specific landfill alternatives being considered. **The evaluation, which considered responses from consultation, concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted:

- an expansion requires less land;
- displaces fewer people and/or social/natural features;
- disrupts fewer people (i.e. one site versus two sites creating nuisance impacts);
- costs less;
- typically encounters fewer challenges in gaining technical approvals; and
- reduces the number of facilities the City must manage.

In March 2012 a Public Input Session was held to present the

preliminary preferred approach to expanding the existing landfill at 402 Fifth Line East in the City of Sault Ste. Marie. **The evaluation, which considered responses from consultation, concluded that an expansion is best accommodated with a moderate increase in the height of the waste together with and expansion of the disposal footprint to the north and west.** The preferred option also includes landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) in the western portion of the existing disposal footprint to enhance groundwater protection. All mined and expansion areas will include the construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and ultimately direct it to the City's sewage treatment plant for treatment.

CURRENT ACTIVITIES

Presently the project team is focusing on **completing an impact assessment for the preferred expansion option.** The impact assessment includes expertise from numerous disciplines and focusses on potential impacts to the natural and human environments associated with the construction and operation of the proposed expansion. Careful attention is given to best management practices to mitigate potential impacts.

We are now seeking input from the Community, government agencies, stakeholders, and First Nations regarding the results of our impact assessment work and the proposed mitigation measures.

PUBLIC INPUT SESSION

If you are interested in discussing the impact assessment work, we encourage you to attend the upcoming public open house! We will provide you with background information and discuss with you, the preferred site expansion option and the results of the impact assessment work.

CONTACT US

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Ms. Catherine Taddo, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5380
Fax: (705) 541-7165
Email: c.taddo@cityssm.on.ca

YOU'RE INVITED!

Date: Tuesday February 9, 2016
Location: Civic Centre –
Russ Ramsay Room
Time: 3:30 pm to 7:30 pm

Refreshments to be provided.

If you cannot attend the public open house, we still want to hear from you! Just go to the project webpage (address provided below) to review the project reference material and fill out a comment sheet or simply send us an email (email addresses provided above). Project webpage address: saultstemarie.ca/SolidWasteEA

Maahs, Nancy

From: Talvitie, Rick
Sent: Monday, March 21, 2016 1:10 PM
To: Maahs, Nancy
Subject: FW: EA of waste/landfill

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

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www.aecom.com

From: Talvitie, Rick
Sent: Monday, March 21, 2016 12:39 PM
To: 'Robert Rattle'
Cc: 'Catherine Taddo'; 'Kolli, Karla'
Subject: RE: EA of waste/landfill

Hi Robert:

Sorry for the delay in getting this response to you.

The City has been very diligent to promote, develop and enhance waste diversion programs and services that support the 3Rs hierarchy: reduce, reuse and recycle and has complemented these programs and services with by-laws to encourage residents to divert waste. The City, prior to initiating the EA recognized an important need to address the underperformance of their diversion programs and initiatives. In the early 2000's they made diversion a priority and initiated an number of studies and followed through on a number of important initiatives with the principle goal of reducing disposal quantities.

An overview of the City's principle waste diversion programs is provided below. The proposed changes/additions that will further enhance diversion have been highlighted yellow.

- The City offers an extensive curbside recycling program which services approximately 26,251 single family households. In addition the program services approximately 6,266 multi-residential units. Recyclables are separated, by residents, into "containers" and "fibres" and set out curbside with their waste for collection on a weekly basis. The management and operation of the curbside recyclables program may change from a Municipal responsibility to a Stewards responsibility in the future. This change may impact the Municipality's ability to influence the future curbside diversion rate.
- It is estimated that approximately 12,100 backyard composters have been distributed to residents in years past. Backyard composters are not currently being offered to residents by the City but they are available through retailers. The City also collects leaf and yard waste bi-weekly throughout the growing season (i.e. late April to early November) and composts the feedstock in open windrows at the landfill site on Fifth Line. The final compost is used on City projects by the City's Parks and Recreation Department.
- The City has banned leaf and yard waste and old corrugated cardboard (OCC) from the landfill.
- The City is also working to establish a permanent Household Hazardous Waste Depot (HHW) at City Landfill site. Planning is ongoing to move the facility in its current location in the City's Public Works yard on Industrial Park Crescent to the landfill in 2016, if supported by Council. The move will provide a "one stop location" for all

waste management needs including recyclables, household hazardous waste and residual waste. The facility has been operational since 2001 and has been effective in diverting HHW generated within Sault Ste. Marie and surrounding areas. The management and operation of the HHW program became a Stewards responsibility in July, 2010. The City continues to own and operate the facility under a contract with the Stewards but this may change in the future.

- The City has implemented a staged reduction in residential waste set out limits. The City introduced a 4 bag/container limit on January 1, 2004 which was reduced to 3 bags/containers on May 1, 2004 and 2 bags/containers on January 1, 2005. The tipping fee and gate fee at the landfill have been increased over time from \$27.50/tonne and \$2/visit to the current rates of \$70/tonne and \$10/visit respectively. In 2006 the City also reduced the permissible weight associated with the gate fee from 500 kg to 300 kg. The City continues to recognize the importance of waste setout limits to strongly encourage residential diversion and periodically reviews whether further reductions are warranted.
- Separation and diversion of recyclable containers and fibres, clean wood waste and brush, white goods, metals, propane tanks, tires, WEEE and batteries is also completed at the City's landfill.
- Council has supported the elimination of free week at the landfill site starting in 2016. This will encourage the 3R's instead of opening the doors to disposal.
- The City has also worked with Algoma Public Health and has established 2 public drop-off locations for sharps. These locations are being closely monitored and aim at collecting sharps safely that would otherwise be disposed of incorrectly throughout the surrounding neighbourhood or in regular garbage disposal.

In addition to these programs, the City has been leading active campaigns to reduce the amount of waste that residents generate with initiatives such as the plastic shopping bags campaign. This initiative educates residents to reduce the number of plastic bags generated and encourages them to shop with reusable shopping bags instead. The City also provides a discounted beverage price to patrons that bring their own refillable cups to some of its venues within the City.

The City also takes a proactive role to lead by example through its own corporate waste reduction and recycling activities. Specific corporate initiatives developed and undertaken by the City have included:

- Super Sorters – Twenty seven Super Sorter Three-In-One recycling bins were purchased and distributed throughout City arenas, recreational facilities and major parks/marinas. In support of this initiative, the Public Works Sign Shop assisted in a custom designed sign for the front of the bins to educate patrons regarding proper disposal of materials. Promotional events were also conducted at the time of the launch to gain public support and encourage their use.
- Waste Reduction Week – The City for the past few years has promoted Waste Reduction Week, which runs in October. City staff have been encouraged to bring in unwanted electronics to facilitate proper management. A proclamation has been made to help support community awareness of the event.
- 20-Minute Makeover – each year the City hosts the 20-Minute Makeover where local residents are encouraged to spend 20 minutes, typically on earth day, to clean up their property. Over the past 4 years the City has had more than 500 participants each year. This promotes City beautification and brings awareness to the negative impacts of littering.
- Green Days/Kids Being Green – a campaign completed by City summer students bringing awareness to the importance of recycling.
- Battery recycling – there is battery recycling station located in City Hall to collect disposable batteries and rechargeable batteries.
- Ink Cartridge Recycling – an ink cartridge recycling station is located in City Hall to collect used ink cartridges from across the corporation. These items are taken back and managed by the original vendors.

In addition, the City strongly encourages the business sector to comply with recycling mandates. The City initiated a fluorescent light program that targets local businesses and the public to drop off bulbs at the Household Hazardous Waste Depot so they can be safely managed and transported to a recycling facility.

There are also a number of public and private sector initiatives in our Community that are supported and encouraged by the City as described in the following paragraphs.

In efforts to reuse waste, the City promotes Habitat for Humanity's ReStore where residents and businesses can donate or purchase new and used household items and building materials such as windows, doors, paint, lumber, tools and lighting fixtures. Other private sector initiatives that support reuse include the local Value Village retail store and Canadian Diabetes Association which accepts used clothing and household items. The City also refunds the landfill tipping fee of the re-use organizations. This program has been in place since 2014 and helps these organization financially.

The City also provides financial support to Community Living Algoma which operates a local WEEE and Styrofoam depot. The facility receives, sorts and transports computers, keyboards, monitors, computer peripherals, phones, cell phones and Styrofoam.

The City also supports the efforts of Clean North which is a citizen based environmental group that promotes environmental protection through various programs and initiatives focused on reduction, reuse and recycling. Programs include an annual Christmas tree chipping event and freecycle days to promote reuse of unwanted items.

Through the City based programs, approximately 10,399 tonnes of residential material was diverted from disposal in 2014. This represents a residential diversion rate of 36%.

The City has also completed a Biosolids Management Study. Biosolids (sewage sludge) generated at both waste water treatment plants is currently being landfilled. The objective of the study was to review alternative biosolids management strategies and develop a sustainable and effective strategy that reduces the impact on the City's landfill, more effectively manages nuisance odours, has wide public support, is cost effective and environmentally responsible. The Notice of Completion was published in May, 2015 and the City is now able to move forward with its implementation, (subject to Council approval), which will effectively divert approximately 10,000 tonnes of waste annually!

The City continues to proactively investigate practical and cost effective ways and means of diverting waste from disposal. These efforts will continue into the future.

In addition you also mentioned, in your email, the waste-to-energy project. I have summarized the historical evolution of that project below.

In 2007, the EA work was deferred to allow a private waste-to-energy vendor, The Elementa Group (Elementa) to develop and demonstrate a pilot scale facility within the City. The EA deferral was requested and approved by City Council to gain a better understanding of the role waste-to-energy may play in the City's future waste management strategy. Elementa built and tested a pilot steam reformation plant that converts municipal solid waste into a char and synthetic gas that can be used to generate electricity. The pilot testing was completed from 2007 to 2009 and at the conclusion of the testing, the City entered into a waste supply agreement to supply a minimum 12,500 tonnes of residual waste per year commencing in 2011.

Although there is the potential for a proportion of the City's residual waste stream to be processed in the proposed Elementa steam reformation plant, there are risks and challenges associated with the future implementation of this innovative project. Given these risks in 2010 it was assumed, within the context of this EA, that all residual waste will be managed through the solutions contemplated within this EA (i.e. Elementa will not process any of the City's residual waste). It was recognized that if the Elementa project is implemented and is fully or partially successful, there will continue to be a need to manage residual solid nonhazardous waste from the Elementa facility and residual waste that cannot be processed by Elementa due to capacity constraints. Elementa's future success will not impact the need for additional disposal capacity but may impact the disposal capacity needed.

To date there have been a number of delays and amendments to the timelines in the agreement between the City and Elementa. The most recent amendment, completed in May, 2015, includes a construction start date that is not to extend beyond May 1, 2016 and an initial waste supply date of July 1, 2017.

Most recently, in December 2015, Elementa was ordered into receivership and their future is uncertain. Based on the conservative assumptions made in 2010, as noted above, these recent actions do not impact this EA.

I am hopeful that this addresses your questions and comments but if you have any further questions do not hesitate to contact AECOM or the City.

Best Regards,

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

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www.aecom.com

From: Talvitie, Rick
Sent: Monday, February 22, 2016 1:47 PM
To: 'Robert Rattle'; Catherine Taddo
Subject: RE: EA of waste/landfill

Hi Robert – this is in my court and I will be putting together a response for you. There have been some other priorities that have occupied by time and I will be getting you a response soon. Sorry for the delay.

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

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From: Robert Rattle [<mailto:robert14robert@yahoo.ca>]
Sent: Monday, February 22, 2016 1:25 PM
To: Catherine Taddo
Cc: Talvitie, Rick
Subject: Re: EA of waste/landfill

Thanks Catherine - I found the ToR and have been able to review them. Question: does the city still distribute backyard composters? I haven't seen any advertising or information from the city about these, their value to waste reduction, or how to use/install them. I assume this is somewhere on the city's website?

I haven't seen any response to my additional questions - did that slip through my email perhaps?

From: Catherine Taddo <c.Taddo@cityssm.on.ca>
To: 'Robert Rattle' <robert14robert@yahoo.ca>
Cc: 'Rick Talvitie' <rick.talvitie@aecom.com>
Sent: Monday, February 1, 2016 4:18 PM
Subject: RE: EA of waste/landfill

Hi Robert:

Thank you for your interest in the project. The Terms of Reference are available on the project website for download.

We are compiling information for the remainder of your questions, and hope to forward something by early next week at the latest.

Catherine
Catherine Taddo, P. Eng.
Land Development & Environmental Engineer
City of Sault Ste. Marie
99 Foster Drive
Sault Ste. Marie, ON P6A 5X6
c.taddo@cityssm.on.ca
saultstemarie.ca
Phone (705) 759-5380
Fax (705) 541-7165

From: Robert Rattle [<mailto:robert14robert@yahoo.ca>]
Sent: Saturday, January 30, 2016 11:37 AM
To: Catherine Taddo
Cc: Rick Talvitie
Subject: EA of waste/landfill

Hi Catherine,

I'd like to compliment the city and consultants for the January Newsletter that provided an overview and summary of the municipal solid waste EA. I found it informative for a process that has been ongoing for quite some time.

Do you have a copy of the terms of reference for this project?

I'd also be interested in understanding what municipal supporting programs to increase waste diversion currently exist, are planned, what the process is to advance additional programs, and how these connect to the municipal solid waste EA?

I'm assuming that the recently announced changes to the waste-to-energy plant has had something to do with this EA input session? How has that change affected timing, capacity and interest in new City programs to divert waste through the 3R's?

Thanks,

Robert

Maahs, Nancy

From: Talvitie, Rick
Sent: Monday, March 21, 2016 1:10 PM
To: ANDRE RIOPEL
Cc: matt_shoemaker@hotmail.com; Catherine Taddo (c.Taddo@cityssm.on.ca); Kolli, Karla; Maahs, Nancy
Subject: RE: 20 cents a pound

Hi Andre,

Sorry for the delay in responding.

First and foremost thank you for bringing forward various ideas for enhancing diversion. I am getting back to you on a few things. In addition to what you have noted below, in a separate email you raised the possibility of using clear waste bags and bi-weekly waste collection.

In this email I have addressed the items raised and I have also provided an overview of 3R's initiatives in the City.

Pay-as-you-throw programs - we investigated pay-as-you-throw programs in conjunction with the Waste Management Business and Implementation Plan that was developed in the early 2000's. At that time we looked at everything from full user pay (i.e. pay for everything that is setout curbside much like paying for utilities that we use) to partial pay-as-you throw programs. Ultimately the City elected to proceed with a partial pay-as-you-throw program whereby the setout limits were reduced from six to two bags/containers per week. Under the current "partial pay-as-you-throw program" residents must pay for anything setout in excess of two bags/containers. The City periodically reviews whether further reductions are warranted.

Organic waste and bi-weekly waste collection - We have addressed these under one heading as they are often closely linked. As you are aware the City operates a very successful leaf and yard waste program which diverts leaf and yard waste throughout the growing season. The City, at one time, distributed backyard composters but this is no longer practiced. We agree with you that the use of backyard composters is an excellent way to further reduce landfilled wastes and we also agree that further reductions in waste setout limits would encourage residents to initiate their own composting activities. We will discuss, with the City, the possibility of initiating a program to better educate residents regarding backyard composters. In addition, as noted above, further reductions in waste setout limits is periodically reviewed by the City.

Bi-weekly collection waste is a good way to reduce costs however bi-weekly collection is usually undertaken in communities that have a curbside organics collection program in place. Typically communities use split body waste collection trucks which facilitates the collection of two distinct waste stream concurrently. Typically municipalities collect organic waste weekly and at the same time collect recyclables one week and residual non-organic waste the next week. It is difficult to collect waste bi-weekly if it contains organics due to problems with odours. In Sault Ste. Marie it would be very costly to initiate a curbside organics collection program due to the small quantities and the inability to partner with other municipalities in close proximity to construct and operate an organics processing facility. For example, in southern Ontario a single processing facility can be constructed to process compostable feedstock from several communities. The economies of scale are much more favourable. Despite these challenges there is a possibility that a curbside organics collection program may be implemented in Sault Ste. Marie in the future particularly if it is mandated at the provincial level. In the meantime the approach that you are advocating (i.e. individual privately owned composters and reduced waste setout limits) could be very effective.

Clear bags - We assisted three smaller municipalities to the east of the Sault in implementing a clear bag policy for residual waste. Studies have shown that the use of clear bags in conjunction with close scrutiny during pickup can be effective in improving diversion (i.e. if recyclables are seen in the bag residents would be warned and ultimately the

waste could be left curbside). There can be challenges with public acceptance of a clear bag policy because residents may not appreciate having to buy specific bags for their waste. This is however similar to the leaf and yard waste program in the Sault that mandates the use of biodegradable paper leaf and yard waste bags. It is also noteworthy that consideration is being given to the possibility of mechanical waste collection in the future (i.e. similar to the mechanical collection being used for recyclables). If mechanical collection is implemented in the future, clear bags would not be effective. Ultimately a clear bag policy can be effective in increasing diversion and we will keep this in mind for consideration in the future.

In the paragraphs that follow we have provided some background information that you may find helpful also. There is some overlap with some of the information provided above.

The City has been very diligent to promote, develop and enhance waste diversion programs and services that support the 3Rs hierarchy: reduce, reuse and recycle and has complemented these programs and services with by-laws to encourage residents to divert waste. The City, prior to initiating the Waste EA recognized an important need to address the underperformance of their diversion programs and initiatives. In the early 2000's they made diversion a priority and initiated an number of studies and subsequently followed through on a number of important initiatives with the principle goal of reducing disposal quantities. An overview of the City's principle waste diversion programs is provided below.

The City offers an extensive curbside recycling program which services approximately 26,251 single family households. In addition the program services approximately 6,266 multi-residential units. Recyclables are separated, by residents, into "containers" and "fibres" and set out curbside with their waste for collection on a weekly basis. The management and operation of the curbside recyclables program may change from a Municipal responsibility to a Stewards responsibility in the future. This change may impact the Municipality's ability to influence the future curbside diversion rate.

It is estimated that approximately 12,100 backyard composters have been distributed to residents in years past. Backyard composters are not currently being offered to residents by the City but they are available through retailers. The City also collects leaf and yard waste bi-weekly throughout the growing season (i.e. late April to early November) and composts the feedstock in open windrows at the landfill site on Fifth Line. The final compost is used on City projects by the City's Parks and Recreation Department.

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The City is also working to establish a permanent Household Hazardous Waste Depot (HHW) at City Landfill site. Planning is ongoing to move the facility in its current location in the City's Public Works yard on Industrial Park Crescent to the landfill in 2016, if supported by Council. The move will provide a "one stop location" for all waste management needs including recyclables, household hazardous waste and residual waste. The facility has been operational since 2001 and has been effective in diverting HHW generated within Sault Ste. Marie and surrounding areas. The management and operation of the HHW program became a Stewards responsibility in July, 2010. The City continues to own and operate the facility under a contract with the Stewards but this may change in the future.

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Separation and diversion of recyclable containers and fibres, clean wood waste and brush, white goods, metals, propane tanks, tires, WEEE and batteries is also completed at the City's landfill.

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Super Sorters – Twenty seven Super Sorter Three-In-One recycling bins were purchased and distributed throughout City arenas, recreational facilities and major parks/marinas. In support of this initiative, the Public Works Sign Shop assisted in a custom designed sign for the front of the bins to educate patrons regarding proper disposal of materials. Promotional events were also conducted at the time of the launch to gain public support and encourage their use.

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The City continues to proactively investigate practical and cost effective ways and means of diverting waste from disposal. These efforts will continue into the future.

Thank you again for your input. If you have any further questions, suggestions or comments do not hesitate to contact AECOM or the City.

Best Regards,

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

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523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4 T 705.942.2612 F 705.942.3642 www.aecom.com

-----Original Message-----

From: ANDRE RIOPEL [mailto:ariopel@shaw.ca]
Sent: Tuesday, February 09, 2016 6:43 PM
To: Talvitie, Rick
Cc: matt_shoemaker@hotmail.com
Subject: RE: 20 cents a pound

Also, to increase compliance with recycling I know some communities ((Halifax) have a clear bag policy to make sure no recyclables are put in the garbage. The also collect every second week to save costs.

Andre

----- Original Message -----

From: Rick Talvitie <Rick.Talvitie@aecom.com>
To: ANDRE RIOPEL <ariopel@shaw.ca>
Cc: Catherine Taddo (<c.Taddo@cityssm.on.ca> <c.Taddo@cityssm.on.ca>, Karla Kolli <kkolli@dillon.ca>
Sent: Tue, 09 Feb 2016 05:20:44 -0700 (MST)

Subject: RE: 20 cents a pound

Hi Andre,

I am glad you were able to tune in last night.

Your math is generally ok except the figure I quoted last night is based on a metric tonne. In addition based on the historical data on average families are not disposing of 100 lbs/week.

The math is as follows:

In our homes we generates 450 kg of waste each year (i.e. each person on average). On average we are diverting 35% of this waste leaving 65% of 450 kg = 292.5 kg for disposal each year.

The cost we presented at last night's Council meeting was \$95 - \$100/ metric tonne. Therefore the average cost per year for disposing of each person's waste is 292.5 kg/1000 (to convert to tonnes) *\$100 = \$29. For a family of four the cost is \$116/year. This includes what we setout curbside as well as what is hauled to the landfill's public drop off.

I hope this is helpful but let me know if you have other questions.

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

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Sault Ste. Marie, Ontario Canada P6A 2M4 T 705.942.2612 F 705.942.3642 www.aecom.com

-----Original Message-----

From: ANDRE RIOPEL [mailto:ariopel@shaw.ca]
Sent: Monday, February 08, 2016 7:54 PM
To: Talvitie, Rick
Subject: 20 cents a pound

Hi Rick

Not sure if I have this right but last night at city council you mentioned that the cost per ton for land filling is about \$100/ton. Is that right? So hypothetically, if I can put 2 X 50 lbs bags of garbage per week without paying extra, The cost to the city is \$20/week or \$1,040/year. Did I do my math right? And that is in 2016. What is it going to be in 20 years assuming that the rate of inflation will stay the same.

You see where I'm going with this. Land filling is not cheap which helps to put into perspective reduction and diversion statagies.

Thanks

Andre

Maahs, Nancy

From: Talvitie, Rick
Sent: Monday, April 11, 2016 10:18 AM
To: 'consultations@metisnation.org'
Cc: Catherine Taddo (c.Taddo@cityssm.on.ca)
Subject: City of Sault Ste. Marie Waste Management Environmental Assessment
Attachments: January 2016 correspondence w metis.pdf

Hi Jesse,

I would like to thank you and your colleagues for the time provided last week to briefly discuss the City's Waste Management Environmental Assessment.

As promised I have attached the full package of information that was delivered to the local MNO office earlier this year. The package includes the newsletter that I left with you together with the information that was available at the most recent open house. In addition to the attachments, I have also provided below, a link to the project webpage which includes additional project details and documentation.

I am also available to discuss the project in greater detail or answer any questions.

Thanks again.

Project Webpage Link: <http://www.saultstemarie.ca/City-Hall/City-Departments/Public-Works-and-Transportation/Public-Works/Waste-Management/Solid-Waste-Management-Environmental-Assessment.aspx>

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

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From: Jesse Fieldwebster [<mailto:JesseF@metisnation.org>]
Sent: Wednesday, April 13, 2016 9:45 AM
To: Talvitie, Rick
Cc: Catherine Taddo (c.Taddo@cityssm.on.ca); James Wagar
Subject: RE: City of Sault Ste. Marie Waste Management Environmental Assessment

Hello Rick,

The Historic Sault Ste. Marie Consultation Committee has reviewed the project and indicated that they would like to meet. If you could provide a list of potential meeting dates that work for you I will work with the committee to determine a suitable date. Would we likely be meeting in the same location used for the Port of Algoma meetings? If you could let me know I can begin creating a draft budget for the proposed meeting.

Sincerely,

Jesse Fieldwebster
Consultation Assessment Coordinator
Métis Nation of Ontario
355 Cranston Crescent PO Box 4
Midland, Ont. L4R-4K6
PH: 705-526-6335 ext.220
FX: 705-526-7537
E: JesseF@metisnation.org
W: www.metsnation.org

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Please consider the environment before printing this e-mail.

From: Talvitie, Rick [<mailto:Rick.Talvitie@aecom.com>]
Sent: April-11-16 10:19 AM
To: Consultations

Cc: Catherine Taddo (c.Taddo@cityssm.on.ca)

Subject: City of Sault Ste. Marie Waste Management Environmental Assessment

Hi Jesse,

I would like to thank you and your colleagues for the time provided last week to briefly discuss the City's Waste Management Environmental Assessment.

As promised I have attached the full package of information that was delivered to the local MNO office earlier this year. The package includes the newsletter that I left with you together with the information that was available at the most recent open house. In addition to the attachments, I have also provided below, a link to the project webpage which includes additional project details and documentation.

I am also available to discuss the project in greater detail or answer any questions.

Thanks again.

Project Webpage Link: <http://www.saultstemarie.ca/City-Hall/City-Departments/Public-Works-and-Transportation/Public-Works/Waste-Management/Solid-Waste-Management-Environmental-Assessment.aspx>

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Maahs, Nancy

From: Talvitie, Rick
Sent: Wednesday, April 13, 2016 1:26 PM
To: 'glesage@gardenriver.org'
Cc: Catherine Taddo (c.Taddo@cityssm.on.ca)
Subject: City of Sault Ste. Marie - Waste Management Environmental Assessment
Attachments: January 2016 correspondence w psyrette grfn.pdf

Hi Gerry,

I hope all is well.

The City of Sault Ste. Marie is proceeding with a waste management Environmental Assessment. The study dates back to 2007 and is now well advanced and we have, in the past conducted an open house in your Community Hall and we have also met with Band Council regarding this project.

In January 2016 we forwarded the attached package to your community. I noticed that your portfolio includes "Natural Resources and Lands" and thought it may be appropriate to follow-up with you to see if there is any further interest in this project. If there is an interest we would be pleased to meet with band council or conduct another public information event in your community.

The attached newsletter provides a good overview of what has been accomplished to date and the current status of the project. In general however the preferred approach to managing waste within Sault Ste. Marie and the surrounding area is to continue to focus on reducing the amount of waste being disposed of through 3R's (reduce, reuse, recycle) initiatives and landfilling residual waste. To accommodate future landfilling an expansion of the City's existing landfill is proposed and we have recently completed an impact assessment for the preferred expansion concept. Details of the impact assessment were recently presented to council and a public input session was undertaken to solicit input.

We look forward to hearing back from you.

Thanks.

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Maahs, Nancy

From: Talvitie, Rick
Sent: Thursday, April 14, 2016 3:17 PM
To: 'dansayers@batchewana.ca'
Cc: Catherine Taddo (c.Taddo@cityssm.on.ca)
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: January 2016 correspondence w dsayers.pdf

Hi Dan,

I left you a telephone message a few weeks ago regarding the above referenced project.

The City of Sault Ste. Marie is proceeding with a Waste Management Environmental Assessment. The study dates back to 2007 and is now well advanced.

In January 2016 we forwarded the attached package to you and I am just taking the opportunity to follow-up with you. If there is an interest in the project we would be pleased to meet with band council and/or staff.

The attached newsletter provides a good overview of what has been accomplished to date and the current status of the project. In general however the preferred approach to managing waste within Sault Ste. Marie and the surrounding area is to continue to focus on reducing the amount of waste being disposed of through 3R's (reduce, reuse, recycle) initiatives and landfilling residual waste. To accommodate future landfilling an expansion of the City's existing landfill is proposed and we have recently completed an impact assessment for the preferred expansion concept. Details of the impact assessment were recently presented to City of Sault Ste. Marie council and a public input session was undertaken to solicit input.

We look forward to hearing back from you.

Thanks.

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Minutes of Meeting

Date of Meeting	April 22, 2016	Start Time	2:00 pm	Project Number	60117627
Project Name	Sault Ste. Marie Solid Waste Management EA				
Location	Civic Centre – Thompson Room				
Regarding	The purpose of the meeting was to discuss the Sault Ste. Marie Solid Waste Management Environmental Assessment.				
Attendees	Yvonne Jensen, Metis North Channel Council President Ernie Gatien, Historic Sault Ste. Marie Metis Traditional Territory Region 4 Councillor Art Bennet, MNO Region 4 Captain of the Hunt Kim Powley, President MNO Historic Sault Ste. Marie Metis Council Jesse Fieldwebster – MNO Consultation Assessment Co-ordinator Catherine Taddo, City of Sault Ste. Marie Rick Talvitie, AECOM				
Distribution	All in Attendance				
Prepared By	Tara Abernot, AECOM				
Reviewed By	Rick Talvitie, AECOM				

PLEASE NOTE: If this report does not agree with your records of the meeting, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

	Action
<ul style="list-style-type: none"> RT thanked the committee for their responsiveness and commitment to meeting on such short notice. He also noted that although a suggestion was initially made to meet through a webex the face to face is particularly important based on the content of the presentation. 	Info.
<ul style="list-style-type: none"> Introductions were made around the table. 	Info.
<ul style="list-style-type: none"> JF delivered a presentation which provided insight into the historical evolution of Métis people and their political structure. Jesse highlighted that engagement of the Metis Nation of Ontario in projects is important as they have specific interests such as harvesting that may be adversely impacted if appropriate mitigation is not incorporated into the project planning. A copy of the presentation slides are attached. 	Info.
<ul style="list-style-type: none"> RT delivered a presentation that addressed the following key topics (a copy of the presentation slides are attached): <ul style="list-style-type: none"> Overview of existing disposal site operations, controls and reporting Leachate management (existing site) Application of reasonable use criteria to protect groundwater quality 	Info.

- Annual Monitoring (groundwater and surface water)
 - Waste Management EA - Project Need
 - Alternatives To and Alternative Methods Evaluations
 - Proposed landfill expansion including proposed leachate management controls
 - Impact Assessment for the preferred design option
- The following questions/comments were noted:
 - Will native tree species be used for the reforestation that will be undertaken at the time of site closure? AECOM
 - Have contaminants been identified that will be monitored in the storm water ponds? AECOM
 - Can a copy of the Annual monitoring report be provided for review? Done
 - Can a summary of the annual groundwater monitoring results be forwarded to MNO? RT noted that a presentation is prepared which is delivered to the Environmental Monitoring Committee each year which may be suitable. RT will discuss further with the City. AECOM/City
- A copy of the 2014 Annual Monitoring Report was provided on May 4, 2016 and answers to the remaining questions will be provided by AECOM. AECOM
- Jesse is to continue to be the point of contact. Info.
 - The MNO will be interested in a review of the EA document when it is available. Comments were made that it is evident the City is being proactive and approaching the ground and surface water management using best practices (eg. full lined site in the expansion areas and landfill mining to install a liner in the area of the existing site that has been the most challenging historically). Info.
 - It was acknowledged by all parties at the meeting that ideally a signoff from MNO on this project would be in the best interest of all parties. AECOM/
MNO



-City of Sault Ste. Marie • Waste Management Environmental Assessment • Métis Nation of Ontario

Rick Talvitie (AECOM)

April, 2016



AECOM

Presentation Overview

- Overview of Existing Disposal Site Operations, Controls and Reporting
- Application of Reasonable Use Criteria
- Leachate Management (existing site)
- Annual Monitoring (groundwater and surface water)
- Waste Management EA - Project Need
- Alternatives To and Alternative Methods Evaluations
- Proposed Landfill Expansion
- Impact Assessment for the Preferred Option

Site Operations - General

- Site operating and reporting requirements dictated through the site Certificate of Approval issued by the MOECC – originally issued in 1989 and several amendments have been issued for various changes.
- Site accepts domestic, commercial and non-hazardous solid industrial waste and processed organic waste.
- Tipping Fee = \$70/tonne.
- Gate Fee = \$10/visit (up to 300 kg's).
- Reporting period – calendar year.

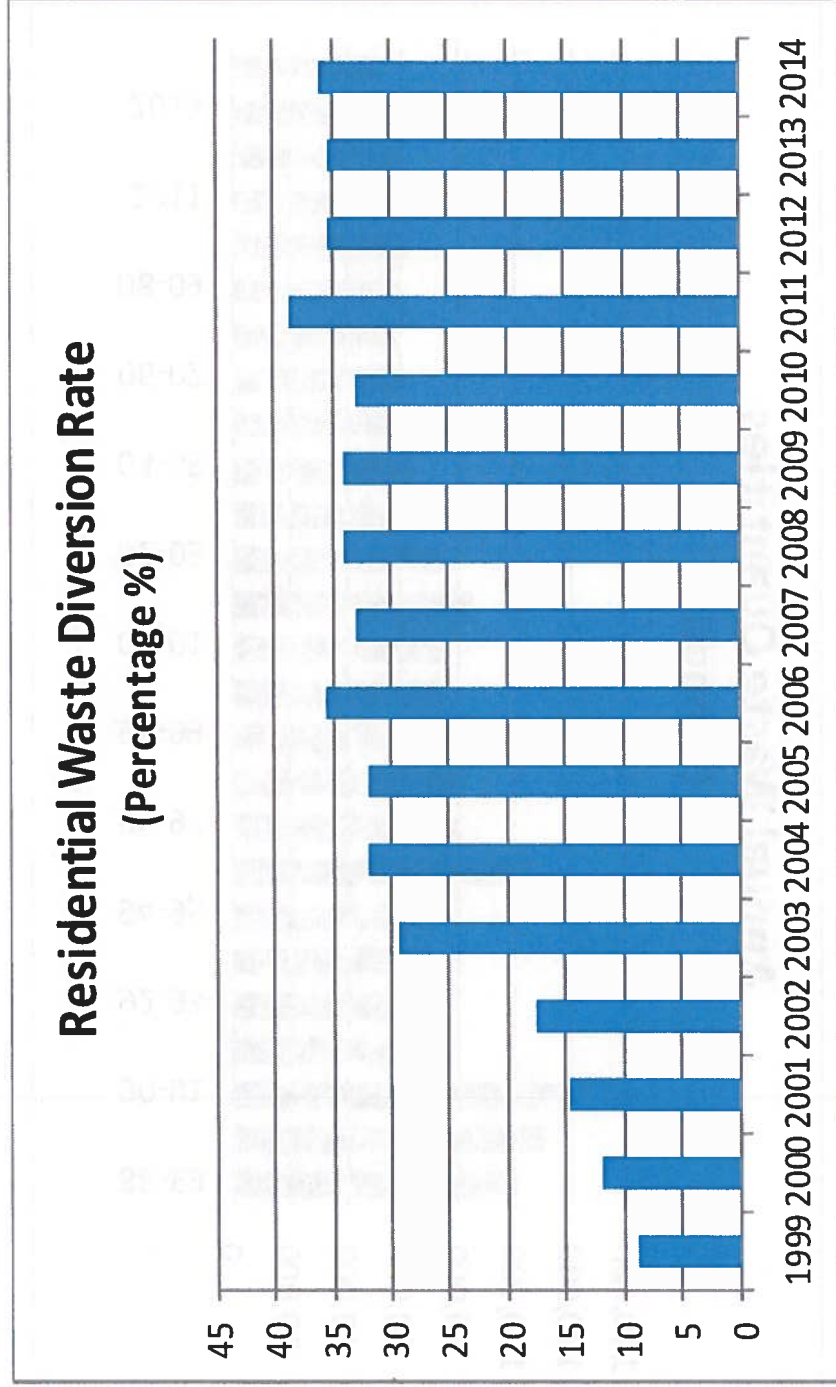


Site Operations - Diversion

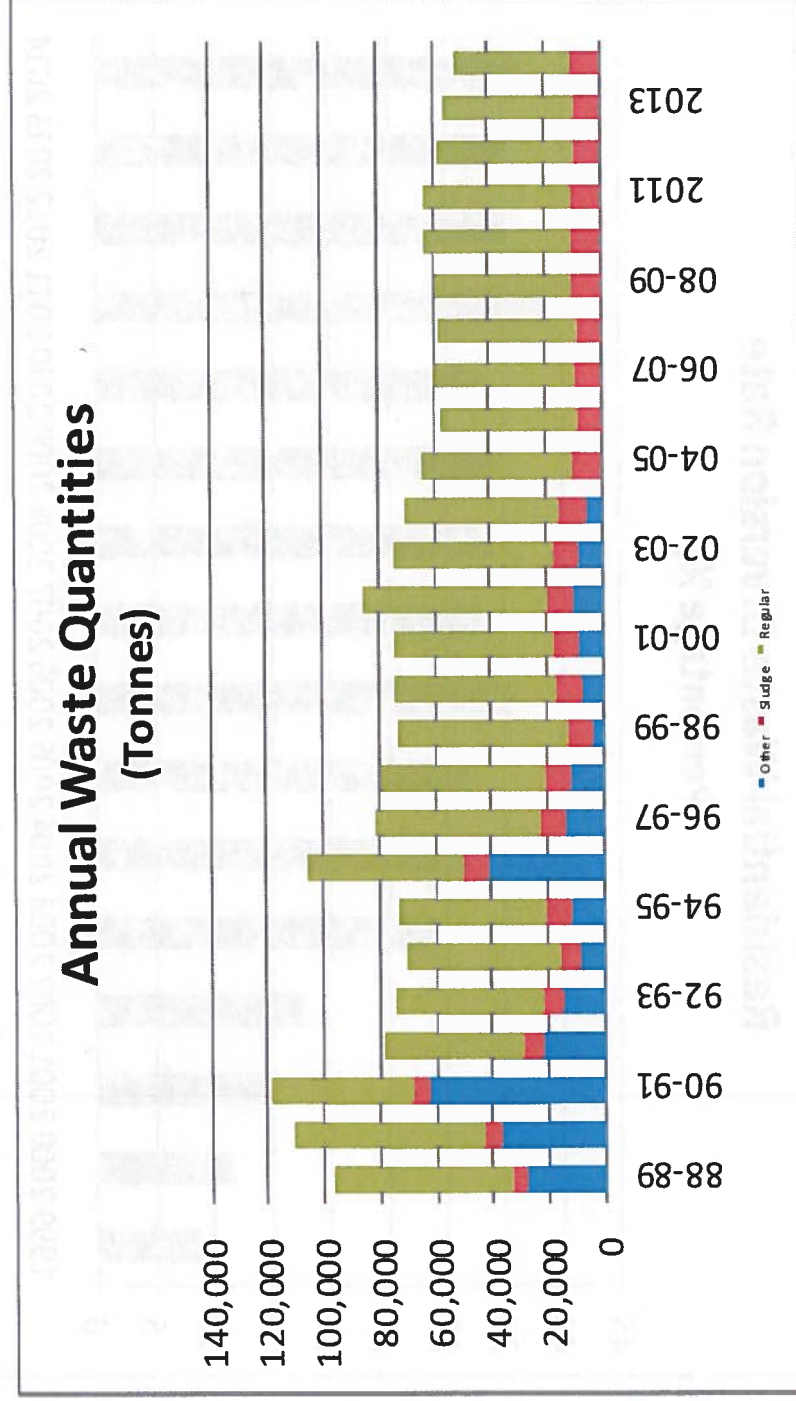
- Recycling efforts at the landfill:
 - Leaf and yard waste composting
 - Tires – City registered as a collector under OTS
 - Batteries
 - Propane tanks
 - Metals/appliances
 - Wood waste
 - Recyclables (fibres/containers)
 - WEEE – formal program with OES



Recycling - How Are We Doing?

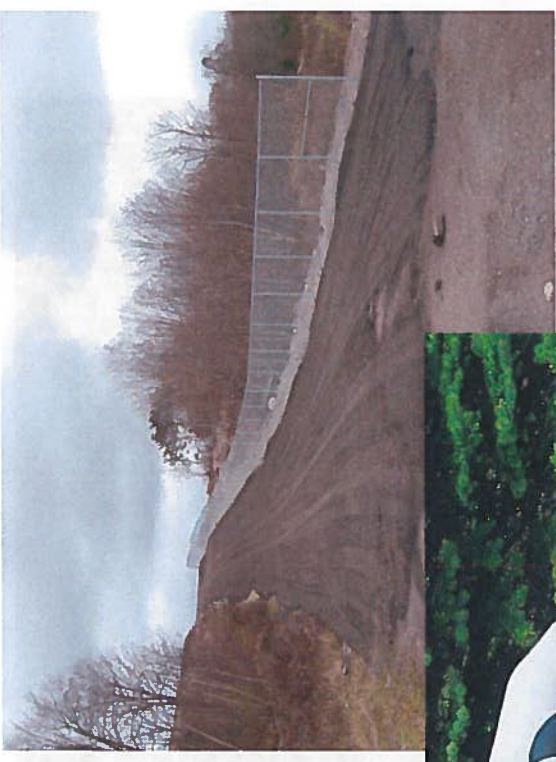


Historical Waste Disposal Quantities



Site Operations – Litter Control

- compaction;
- cover (daily, interim and final);
- portable and permanent fencing;
- litter pick-up (manual and industrial vacuum).



Site Operations – Odour Control

- active landfill gas collection system
- application of odour reducing agent to biosolids at the plants
- Cover application
- Application of odour neutralizer to empty trailer
- Impermeable cover tarps for biosolids trailers and regular wash downs of trailers
- Portable odour neutralizing mist sprayer

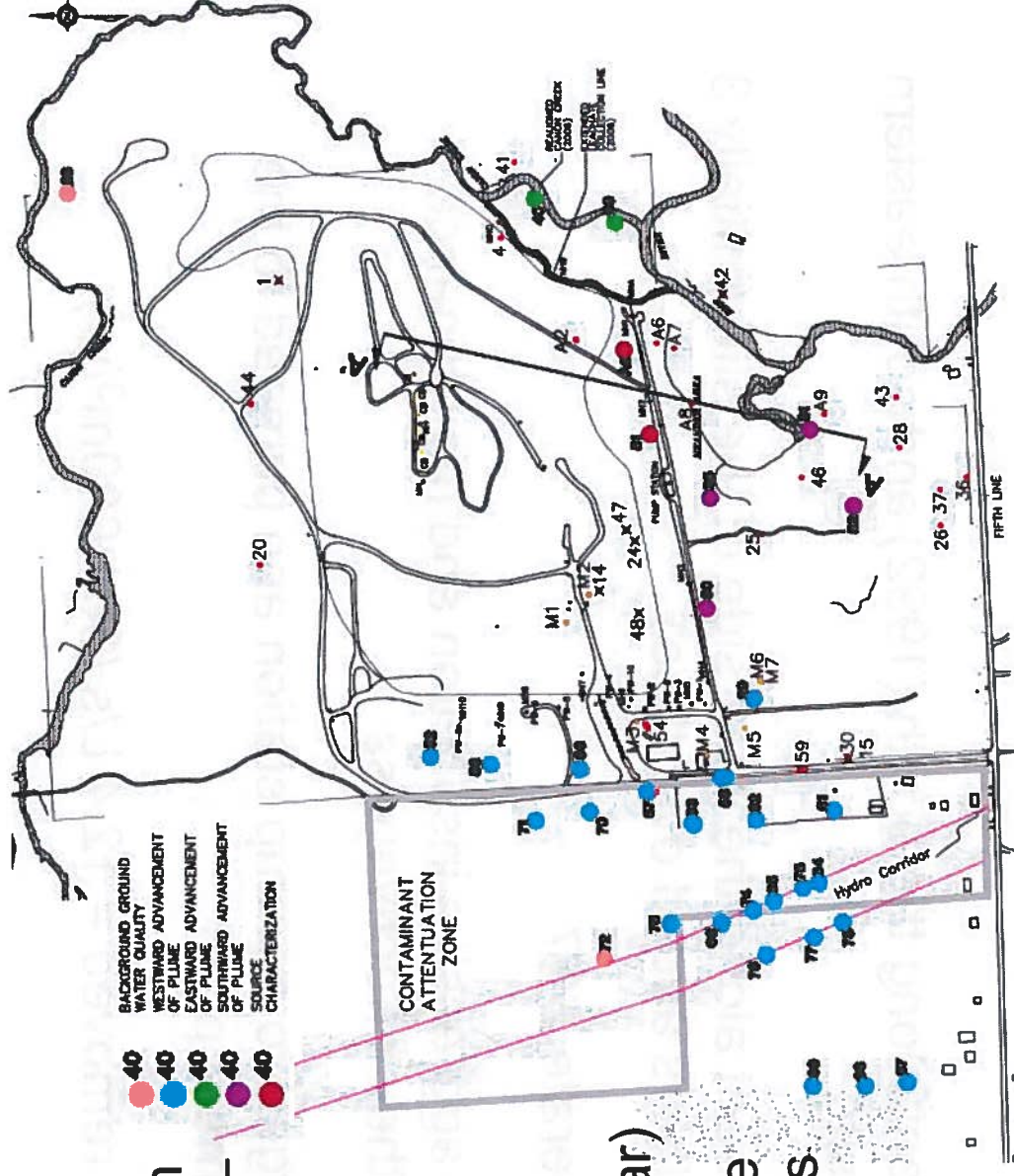


Leachate Management - Collectors and Purge Wells

- Collectors are present along the south (1992) and south eastern (2006) sides of the site
- Purge wells are present along the west side of the site (initially 3 wells in 1997 and others added over time)
- Typically 9 wells operate 24/7
- City implements an aggressive inspection and maintenance regime to maintain their effectiveness
- Leachate is discharged to a pump station and pumped to the City's sewage treatment plant.
- Estimated leachate removed = 12.4 L/s (391,000m³/yr)

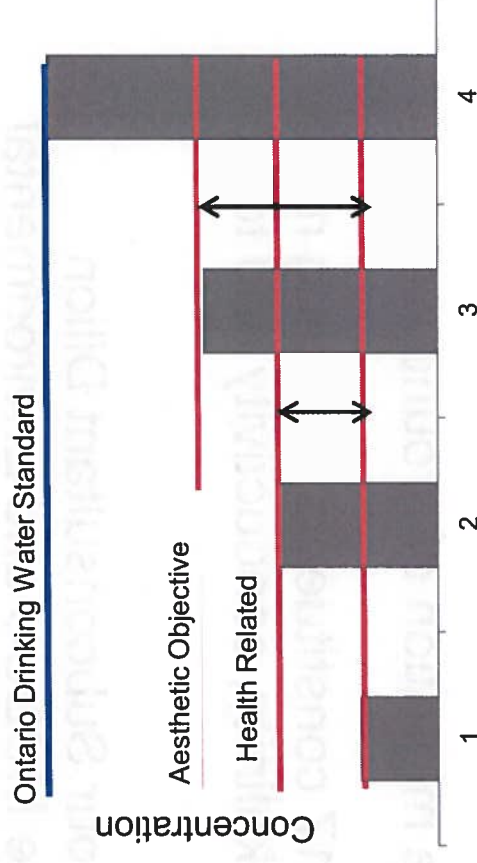
Groundwater Monitoring

- Approx. 206 groundwater monitors have been installed over time – approx. 97 in good condition
- Approx 35-40 monitors are sampled regularly (1-3 times each year)
- Background, source and quality monitors



Application of Reasonable Use

- Discharge to a neighbouring property must have no more than a negligible or trivial effect on the existing or potential reasonable use of a property.
- Reasonable use of GW on adjacent properties in the case of the SSM landfill is drinking water.
- Water quality cannot be degraded in excess of 25% of the difference between background and the ODWS for health related parameters
- Water quality cannot be degraded in excess of 50% of the difference between background and the ODWS for non-health related parameters

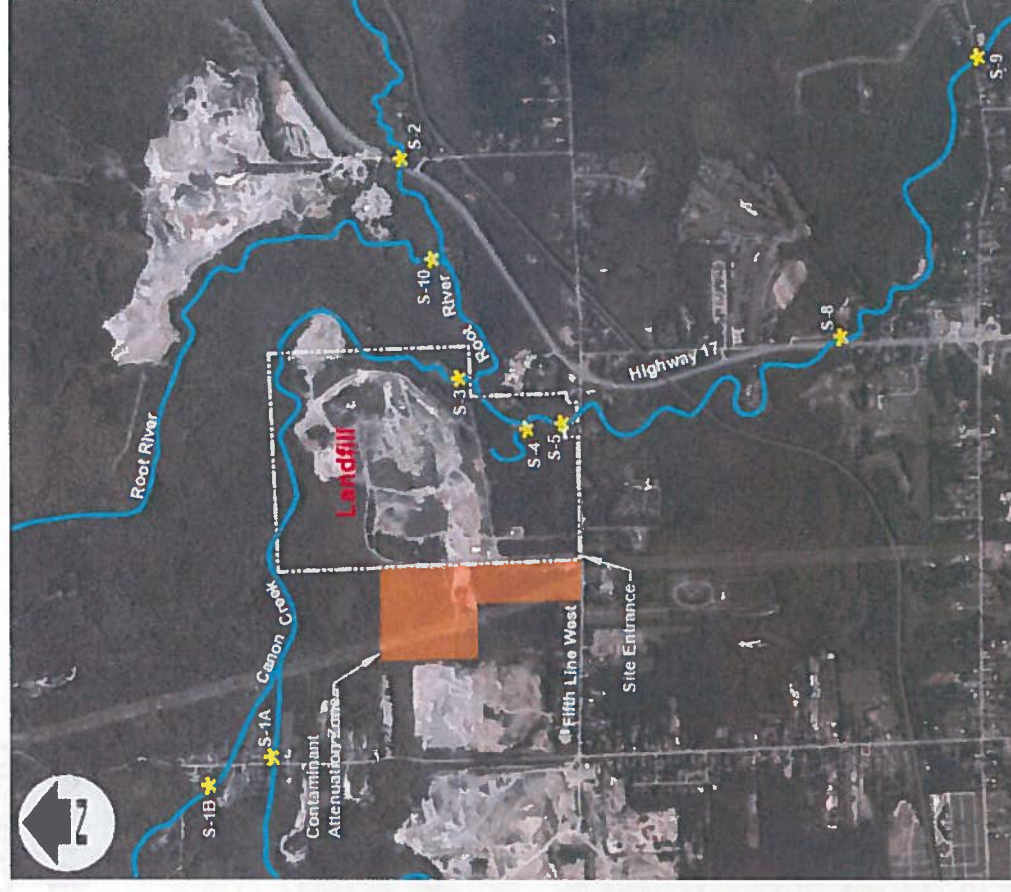


Groundwater Monitoring

- Water levels measured to trace migration of ground water.
- Samples analysed for at least 17 constituents including major leachate indicators chloride, alkalinity, conductivity and total organic carbon.
- Report completed annually by our Subconsultant Dillon Consulting and submitted to the MOECC and Environmental Monitoring Committee.
- The site continues to perform as anticipated. The site has an adequate buffer, CAZ and/or contingency plan in place. Design and operational measures including the size and configuration of the CAZ are adequate to prevent potential human health impacts and impairment of the environment.

Surface Water Monitoring

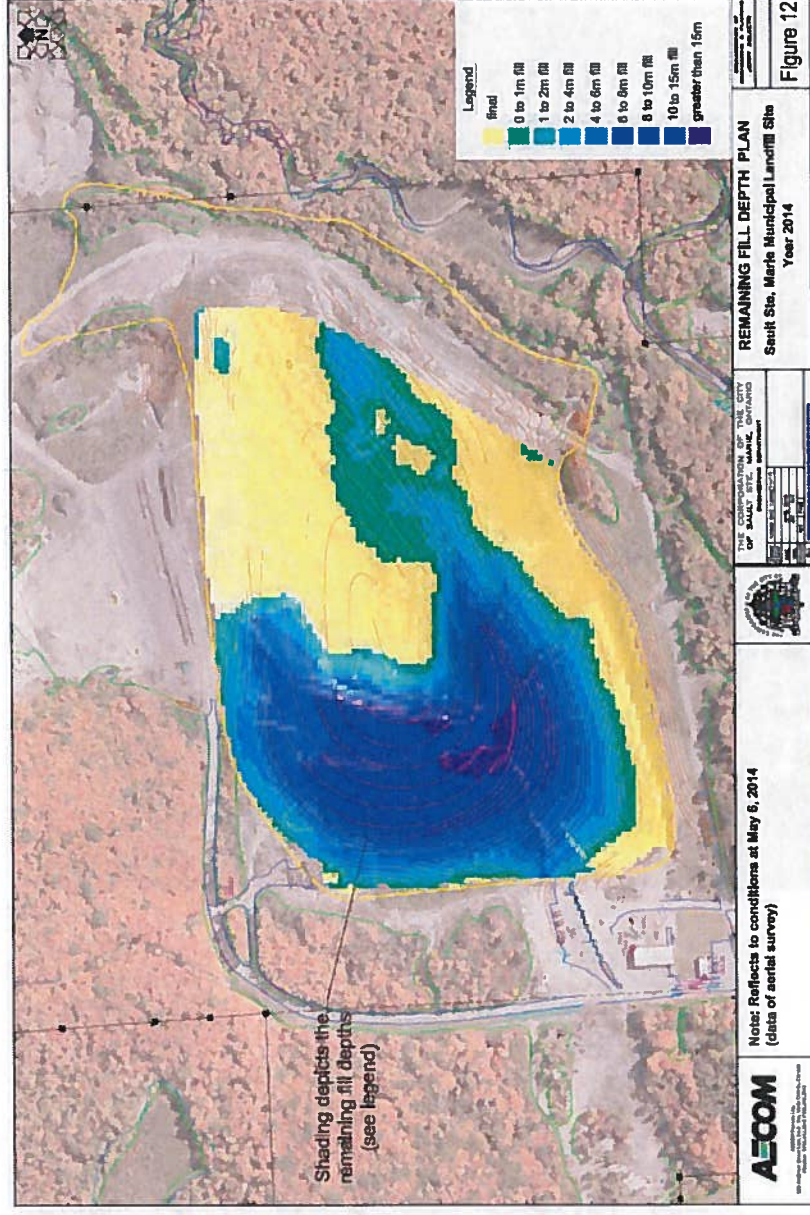
- Surface water sampled and analyzed at 5 locations (S-1B, S-2, S-3, S-4 S-5 – upstream, adjacent to and downstream relative to the site).
- Sampled 5 times/year - results compared to Provincial Water Quality Objectives.
- Surface water parameter concentrations fall within a stable or decreasing trend. Although there are some exceedances of PWQO are not believed to be the result of waste disposal activities.



Waste Management EA - Project Need

The estimated remaining service life of the existing landfill is 6.25 years (at the end of 2015). The estimated site life may be impacted by future population changes, in-situ subsidence and waste generation, diversion and disposal rates.

Despite significant success in enhancing waste diversion, additional disposal capacity is required.



Landfill & Increased 3Rs - Rationale

EA Step – “Alternatives to” Conclusion

Based on the results of the evaluation and input received the preferred long-term approach to managing waste in SSM is:

- Increased 3Rs (Reduce/Reuse/Recycle); and
- Landfilling residual waste.

Why?

- Can comply with regulations and policies.
- City is experienced with these waste management initiatives.
- Flexible to changes in the waste stream (e.g. population, waste generation, diversion).
- Can accept non-hazardous residual waste from a Waste-to-Energy facility.
- Cost efficient.

Landfill Expansion - Rationale

EA Step – “Alternative Methods” Conclusion

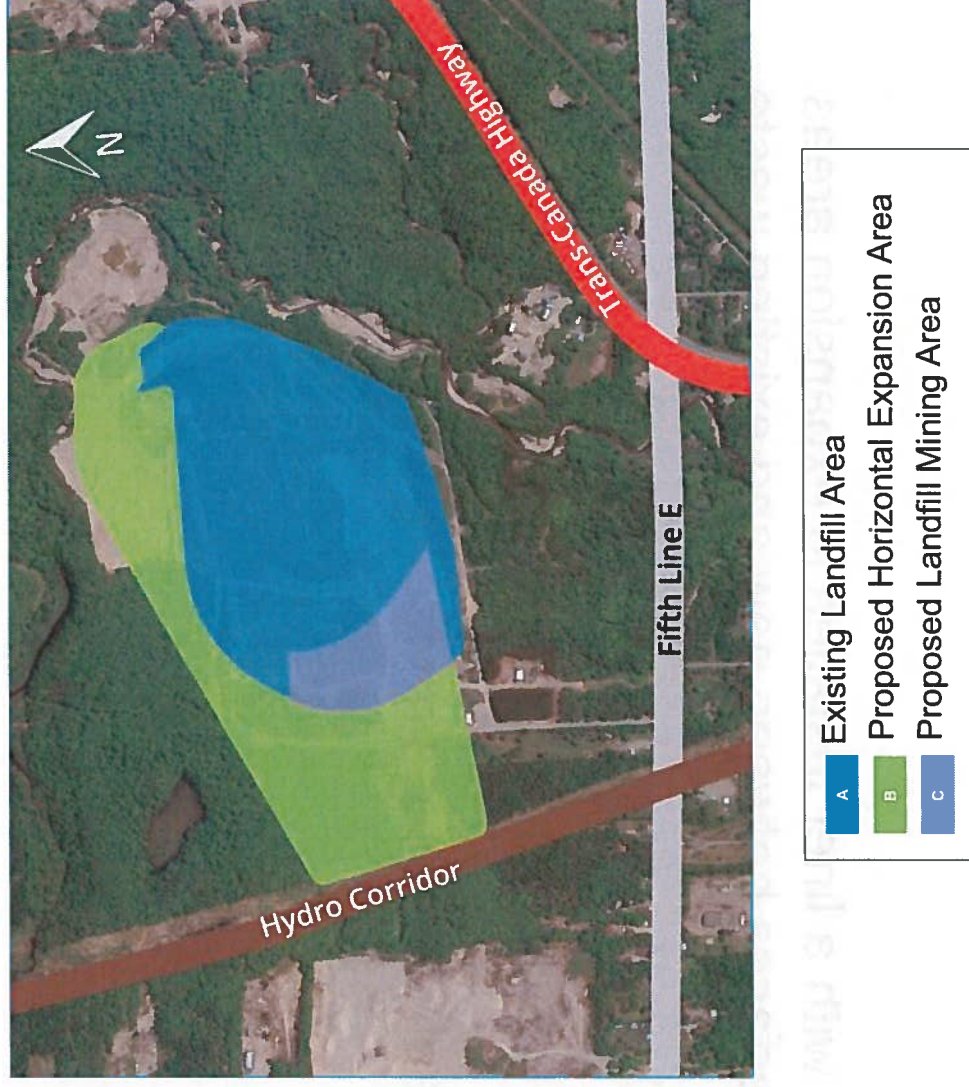
Based on the results of the evaluation and input received the preferred method of landfilling waste = expansion of an existing site.

Why?

- Likely less potential for displacement and disruption.
- Only one landfill site to manage and maintain.
- Cost effective.
- Community adaptation.
- Likely fewer challenges in gaining approvals.

Preliminary Preferred Option

Expansion of the north and west boundaries of the existing disposal footprint, a moderate vertical expansion of 4 m and landfill mining within the western portion of the existing disposal footprint.



Preferred Option – Enhanced Controls

- Fully engineered site with a liner installed in expansion areas, mined areas, and interfaces between new and existing waste.
- Horizontal collector at west edge of new footprint.
- Staged expansion of the landfill gas management system.
- Construction of a biosolids processing facility.

Impact Assessment

What is it?

- Focused investigation and analysis to identify potential impacts to the environment resulting from the construction or changes in the operation of the expanded landfill.
- Also includes consideration of potential opportunities for enhanced mitigation that otherwise would not likely be implemented in the absence of the proposed expansion.

Impact Assessment

- The detailed impact assessment required expertise in the following disciplines:
 - ✓ Biology (terrestrial and aquatic);
 - ✓ Geotechnical;
 - ✓ Groundwater;
 - ✓ Atmospheric (acoustic and air quality);
 - ✓ Surface water;
 - ✓ Socio-economic;
 - ✓ Visual;
 - ✓ Traffic;
 - ✓ Archaeological/cultural; and
 - ✓ Planned land use.

Impact Assessment – Natural Environment Mitigation Strategies

- Lined site design mitigates potential for impact to groundwater. Also allows opportunity to enhance existing groundwater controls.
- Erosion and sediment controls to be implemented during construction (e.g. use silt fences to reduce risk of soil washing into watercourses).
- Woodland edge management (e.g. avoid using heavy machinery over roots of edge trees).
- Wildlife impact management during construction (e.g. avoiding bird nesting seasons when clearing).
- Apply a vegetative cap on final landform.
- Reforestation following closure to compensate for removal.
- Manage storm water to remove sediment and ensure no increase in peak flows in adjacent watercourses.

Impact Assessment – Social Environment Mitigation Strategies

- Dust management to include hard surface perimeter road and dust mitigation as necessary.
- Sound attenuation berm adjacent to south-west corner of compost pad.
- Implementation of a vermin and wildlife management plan.
- Landfill gas management to minimize green house gas emissions.
- Permanent and/or portable odour neutralizing spray system.
- Development of an odour management plan for landfill mining to include consideration of meteorological conditions, periphery odour misting, area of exposed waste, frequent application of cover, bypass screening of odorous waste; use of chemical and biological neutralizers, etc.
- Complete technical review of Highway 17/Fifth Line intersection and sight distance improvements.
- Rezone south-west portion of the property.
- Manage future development in the vicinity of the site.

Impact Assessment – Communication, Monitoring and Reporting

- Undertake a comprehensive ground and surface water monitoring program and report the results annually.
- Review the site development and operations annually, identify areas for improvement and report the results.
- Complete National Pollutant Release Inventory (NPRI) and landfill gas management reporting annually.
- Monitor future traffic volumes and Hwy 17/Fifth Line intersection operations.
- Monitor onsite and offsite odours and proactively manage mining operations.
- Monitor stormwater quality discharge from onsite ponds.
- Maintain regular communication with local residents
- Maintain a formal complaint recording and response procedure.

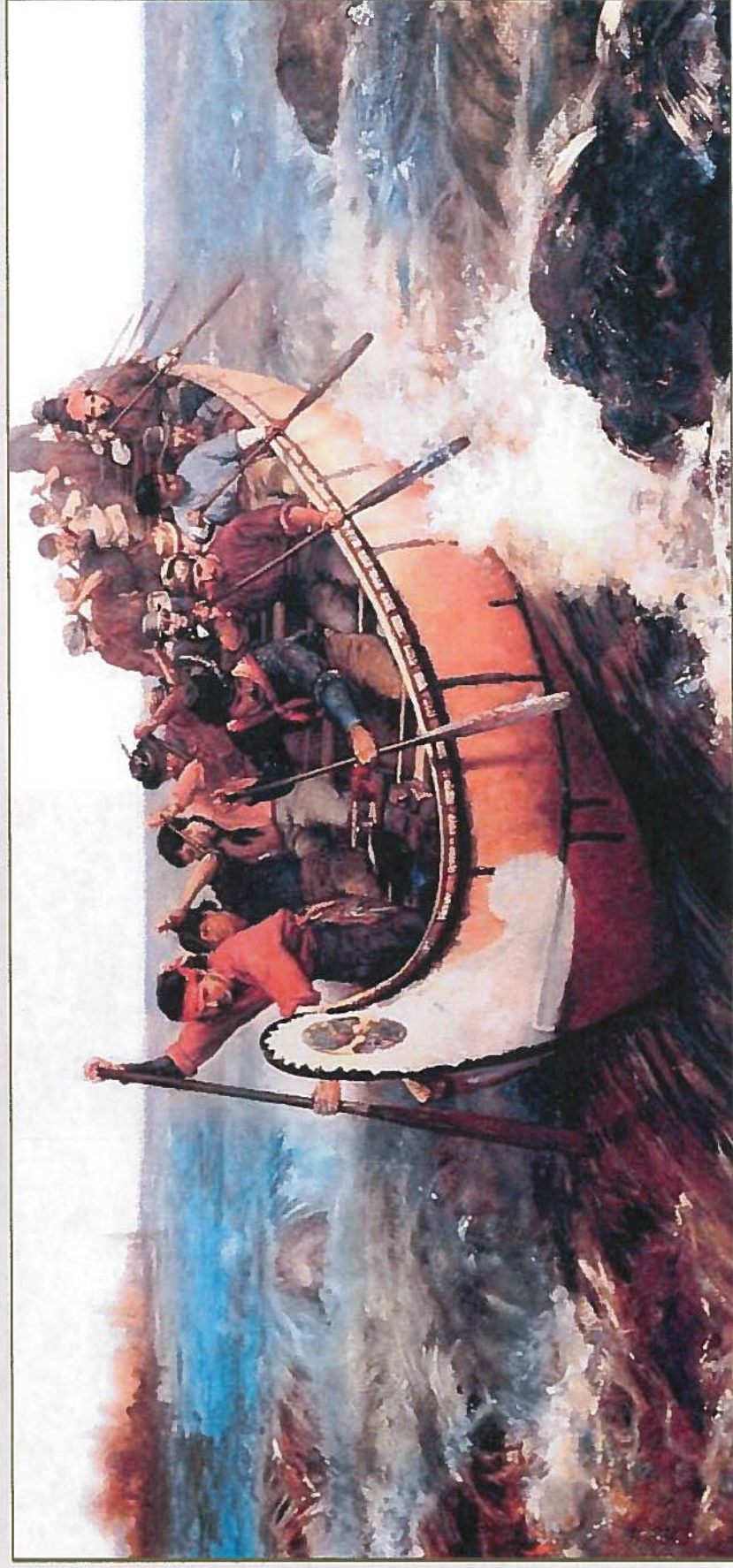
Next Steps

- Prepare Environmental Assessment Document.
- Prepare the Design and Operation Report for the site.

QUESTIONS?



MÉTIS 101 & DUTY TO CONSULT




City of Sault Ste. Marie

April 22th, 2016



Métis Nation of Ontario
Lands, Resources and Consultations

Métis Nation
of Ontario 

MÉTIS 101 & DUTY TO CONSULT


Who are the Métis?

**The Métis Nation of
Ontario**

**Duty to Consult and
Accommodate**



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Métis Nation
of Ontario 

WHO ARE THE MÉTIS?




Provisional Métis government - 1870

The Métis are a **distinct** Aboriginal people with a **unique** history, culture, language and territory that includes the waterways of Ontario, surrounds the Great Lakes and spans what was known as the historic Northwest.



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WHO ARE THE MÉTIS?

A Culture All Our Own!


Descendants of
Native American
women and
European men

Mixed ancestry

Genesis of new
Aboriginal people



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of Ontario 

WHO ARE THE MÉTIS?

Key Misconceptions


- Métis do not pay taxes
- Métis live on reserves like some First Nations people
- Métis have no harvesting rights
- Métis are French Canadians
- Métis are a “First Nation” people



Art by Christi Belcourt

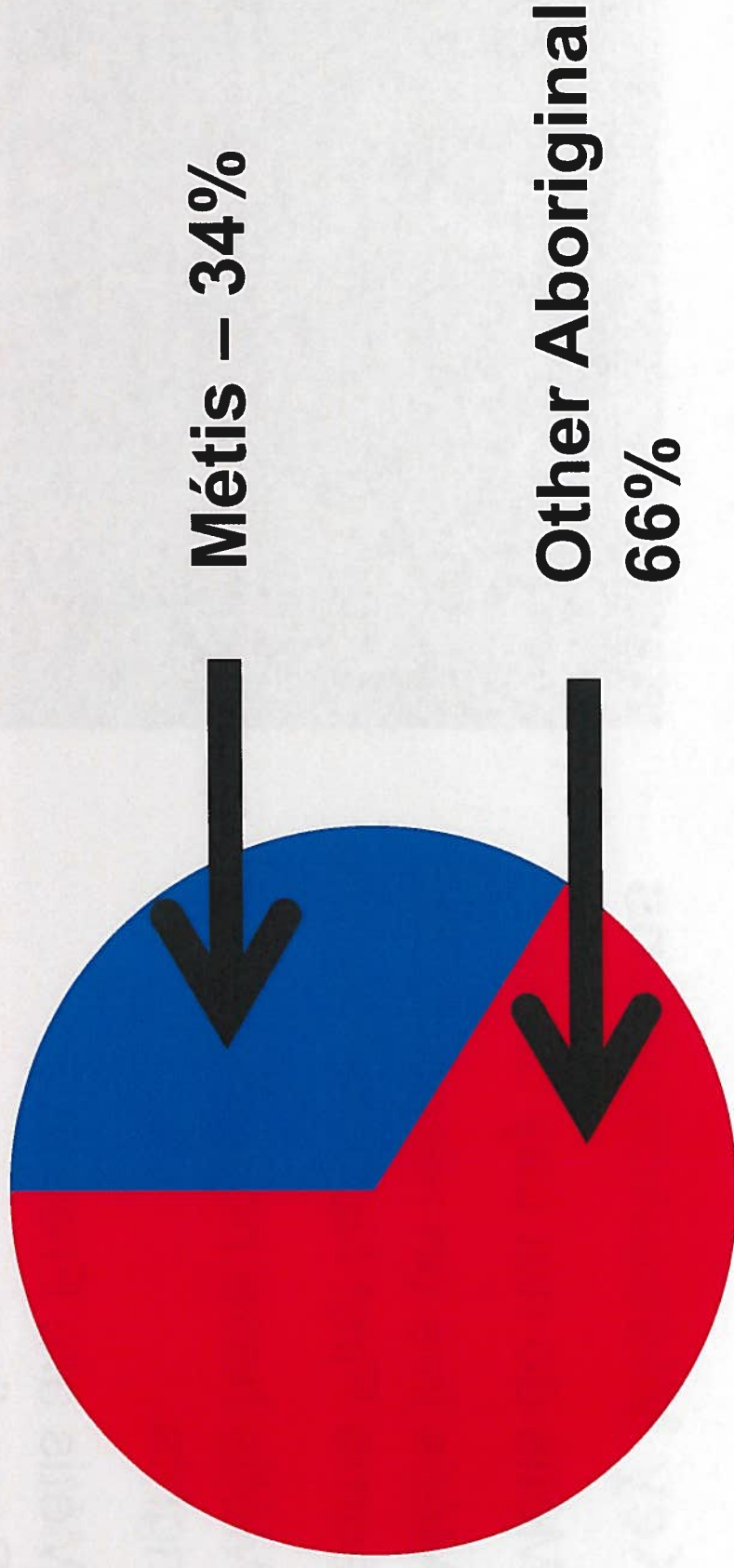


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WHO ARE THE MÉTIS?


Population dynamics



Source: Statistics Canada 2006



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of Ontario 

THE MÉTIS NATION OF ONTARIO



MNO President Lipinski and Chair Picotte at 2013 Louis Riel Day Ceremony at Queen's Park in Toronto

Métis-Specific Governance Structure

- In 1993 the founding delegates made a decision to bind their people together in the spirit of nation-building, based on a democratic representative model, as opposed to past Pan-Aboriginal Models;
- The MNO designed its governance to support aspirations at local, provincial and national levels;
- MNO citizens exercise their collective right to self-government through a structure that continues to evolve as the MNO moves forward in the implementation of Métis self-government.



Métis Nation of Ontario
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Métis Nation
of Ontario 

THE MÉTIS NATION OF ONTARIO

Métis-Specific Governance Structure

- Every four years MNO Métis citizens have the opportunity to choose their provincial leadership by voting in provincial ballot-box elections.
- The governance of the MNO is supported by the their policies and procedures and guided by a host of other documents:


- MNO Secretariat By-Laws
- MNO Electoral Code Part A
- Métis Rules of Order
- MNO Statement of Prime Purpose



***Métis National Council (MNC)
President Clement Chartier swears
in the PCMNO at the 2012 Annual
General Assembly***



Métis Nation of Ontario
Lands, Resources and Consultations

Métis Nation
of Ontario 

THE MÉTIS NATION OF ONTARIO



The signing of the MNO-Ontario Framework Agreement in 2004

Métis Specific Governance Structure

- Only recognized provincial Métis governance structure in Ontario
- Has established bilateral and tripartite process with the federal and provincial governments
- In July of 2004 the MNO negotiated with the Government of Ontario, negotiating an interim accommodation agreement on Métis harvesting rights, and in November 2008 the MNO signed the MNO-Ontario Framework Agreement with the province.



THE MÉTIS NATION OF ONTARIO




MNO Registry

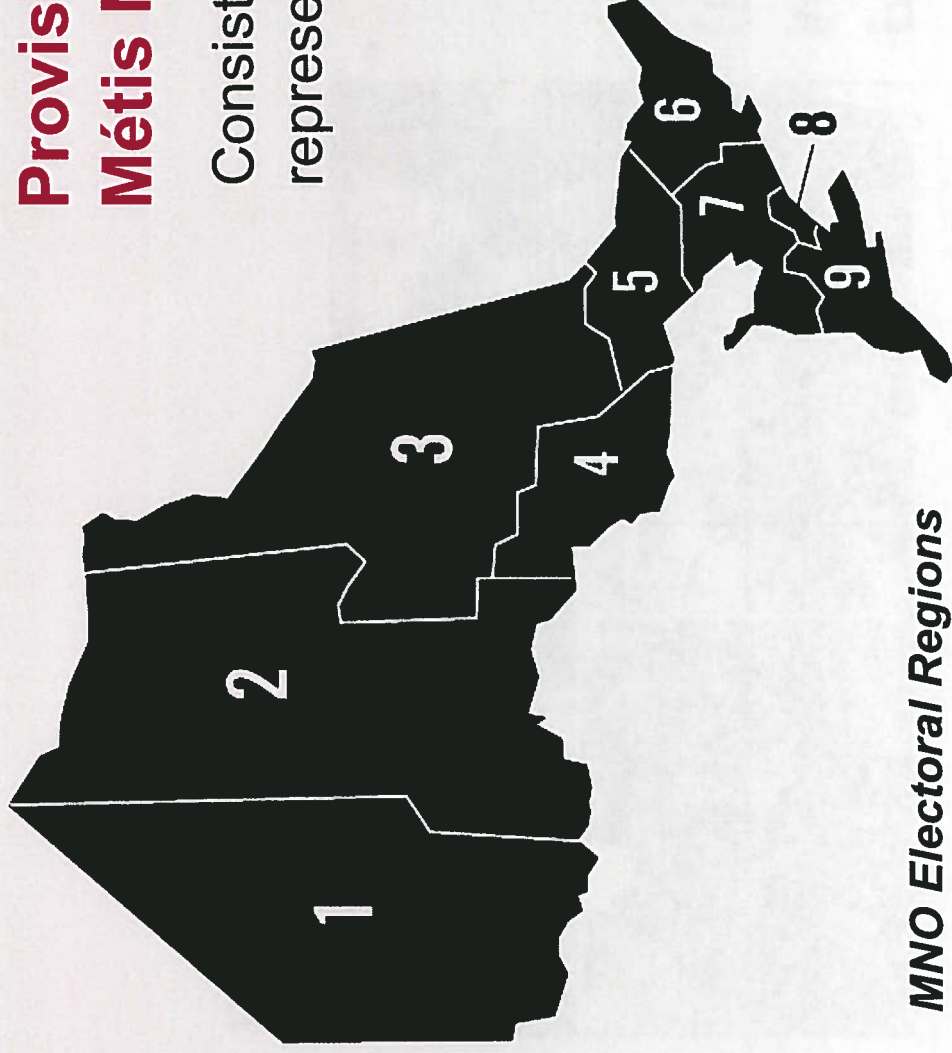
- The MNO Registry is the only recognized Registry in the province
- Extensive application process
- Approximately 15,000 individuals are registered MNO citizens



Métis Nation of Ontario
Lands, Resources and Consultations

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of Ontario 

THE MÉTIS NATION OF ONTARIO



MNO Electoral Regions

Provisional Council of the Métis Nation of Ontario (PCMNO)

Consists of 19 elected
representatives which include:

- MNO President
- Chair
- Vice-Chair
- Secretary-Treasurer
- 4 Senators
- 1 Youth Representative
- 1 Post-Secondary Representative
- 9 Regional Councilors



THE MÉTIS NATION OF ONTARIO




Provisional Council of the Métis Nation of Ontario (PCMNO)

- The structure of PCMNO ensures that community and regional interests are represented, as well as other demographic segments such as youth, women and elders
- MNO elections are held every four years.
- Executive members (except the Executive Senator) and Regional Councillors are elected in a provincial ballot-box election.
- Senators are elected by Community Council Senators at AGAs.
- The PCMNO takes its direction from and is required to report to its citizens at General Assemblies, which are held once a year.

The PCMNO in Action



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of Ontario 

THE MÉTIS NATION OF ONTARIO




Powley Decision and Interim Harvesting Agreement

The existence of Métis rights, including the right to harvest was affirmed by the Supreme Court of Canada in September 2003 R v. Powley decision. An interim agreement between the Métis Nation of Ontario and the Ontario Ministry of Natural Resources (MNR), which recognized the MNOs existing Harvest Card system was reached in 2004.

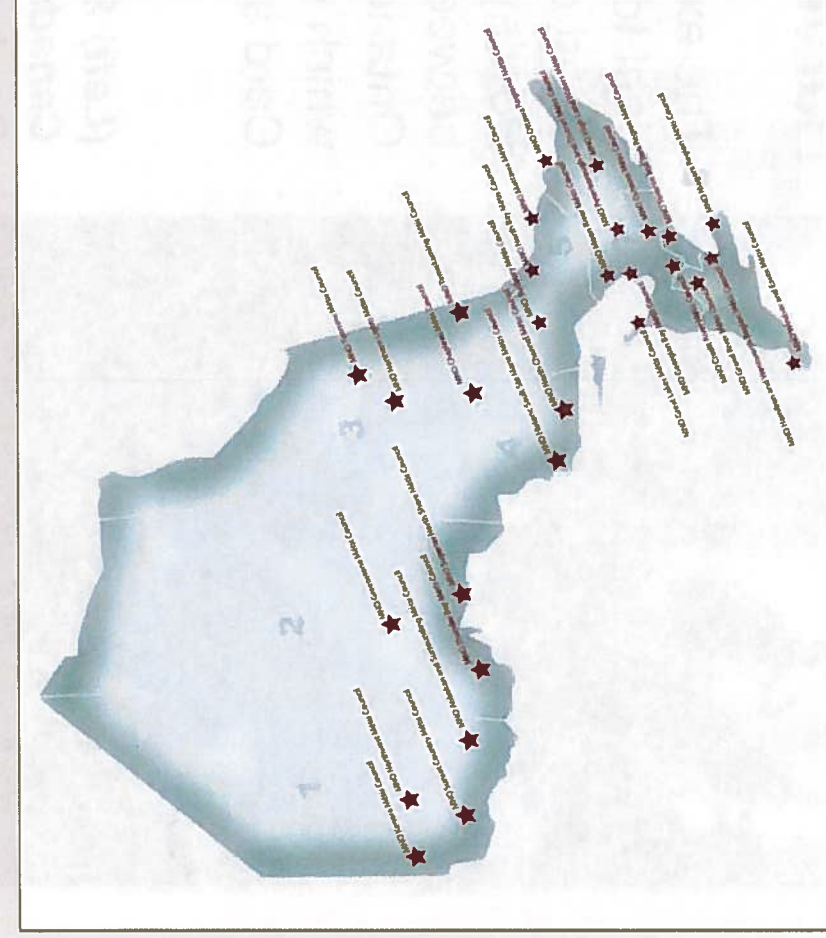
(Left) Steve Powley at the Supreme Court of Canada following the release of the historic Powley decision in 2003.



Métis Nation of Ontario
Lands, Resources and Consultations

Métis Nation
of Ontario 

THE MÉTIS NATION OF ONTARIO



The Locations of the MNO's 29 Chartered Community Councils.

Chartered Community Councils

- There are currently 29 Chartered Métis Community Councils in Ontario which are almost entirely volunteer operated.
- The MNO's Community Charter Agreements continue to be the cornerstone for a strong foundation for the MNO to implement its inherent right to self-government.
- Community Councils are the catalyst in maintaining community linkages around community development efforts as well as playing an important role in fostering community empowerment and development for the Métis Nation of Ontario.



DUTY TO CONSULT & ACCOMMODATE

Why Consult?

- Section 35 of *The Constitution Act, 1982*
- *R. v. Powley*, 2003 Supreme Court case
- Haida & Taku cases 2004 Supreme Court
- Significant Métis rights cases are still before the courts



*Signing of Memorandum of Understanding
between MNO and Osisko*



DUTY TO CONSULT & ACCOMMODATE

What triggers consultation?

The Crown is required to make a DECISION about:

- Permits
- certain licenses
- removal of habitat
- exhaust pollution
- infringement on threatened/protected species



DUTY TO CONSULT & ACCOMMODATE

Basics of Consultation

1. Full disclosure
2. Exchange of interests
3. Identify conflict between interests
4. Mitigate/accommodate accordingly
5. Qualified consent



Painting by Adney



DUTY TO CONSULT & ACCOMMODATE

What Role Does the MNO Secretariat Play?


Determine, as concretely as possible, the potential impacts of a project on the rights and traditional way of life of Métis people through an assessment process.



Trapping Muskrat



Métis Nation of Ontario
Lands, Resources and Consultations

**Métis Nation
of Ontario** 

DUTY TO CONSULT & ACCOMMODATE

MNO Consultation Protocols



Signing of an MNO Consultation Protocol



Métis Nation of Ontario
Lands, Resources and Consultations

**Métis Nation
of Ontario** ∞

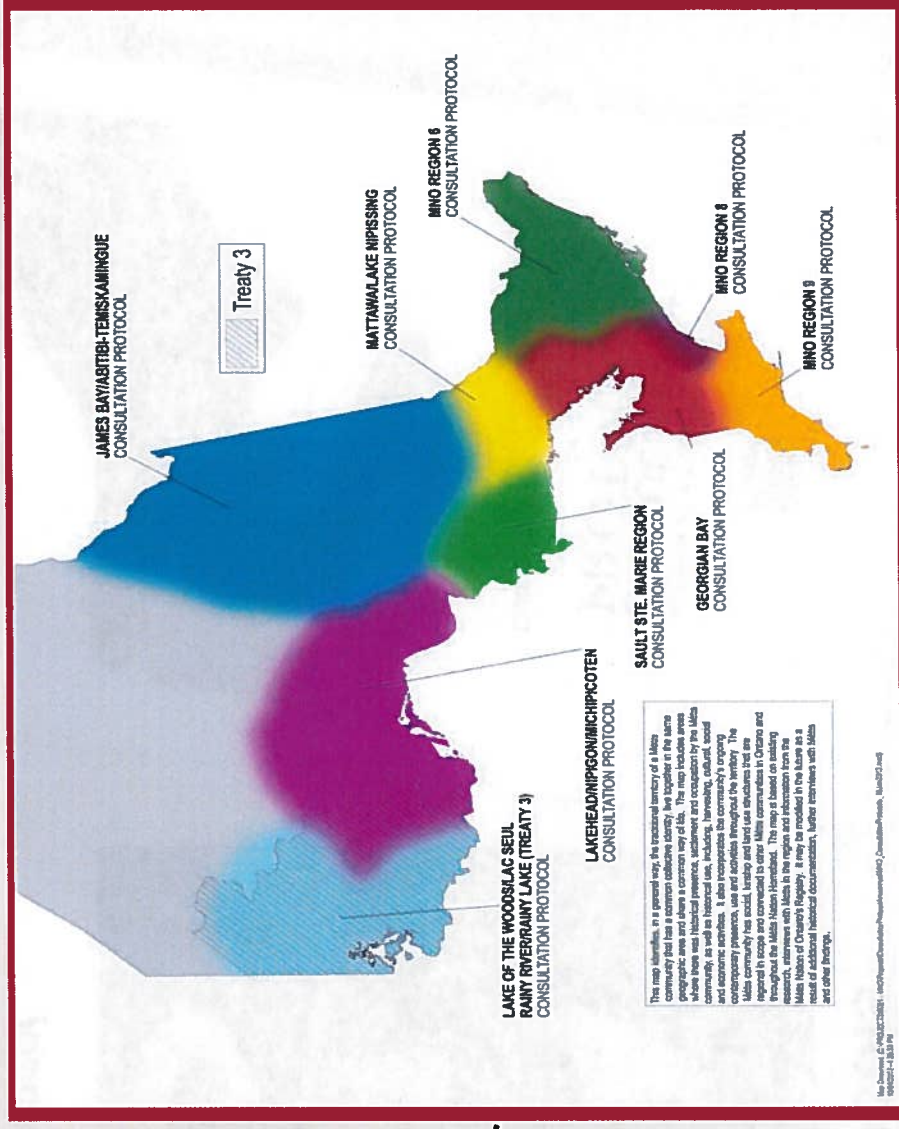
DUTY TO CONSULT & ACCOMMODATE

Regional Consultation

- Community Based
- Provincially Recognized Harvesting Territories


Protocol Committees

- Regional Councillor – Chair
- Council Representative
- Captain of the Hunt
 - *ex-officio*
- *Youth Rep*
- *Senator*



Métis Nation of Ontario
Lands, Resources and Consultations

MNO Protocol Areas

**Métis Nation
of Ontario** 

DUTY TO CONSULT & ACCOMMODATE

Consultation Framework

- Consists of three phases: Notification, Exchange, Mitigate/Accomodate
- Ensures all MNO citizens have the opportunity to be consulted through a fair, inclusive and transparent process.
- It rests with the MNO and the Committee to determine whether the Duty to Consult has been met.




DUTY TO CONSULT & ACCOMMODATE

Phase 1: Notification

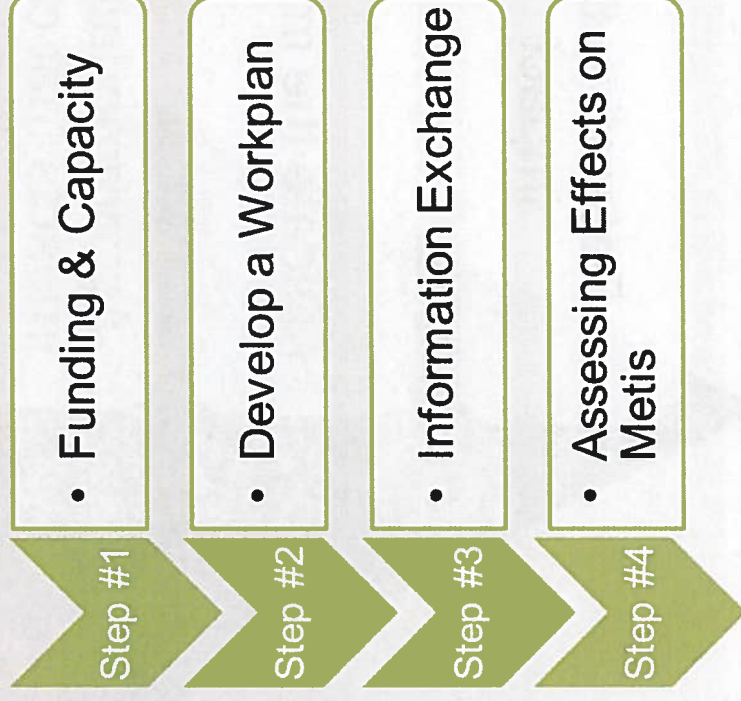


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Lands, Resources and Consultations


Métis Nation
of Ontario 

DUTY TO CONSULT & ACCOMMODATE

Phase 2: Information Exchange



Métis Nation of Ontario
Lands, Resources and Consultations

**Métis Nation
of Ontario** 

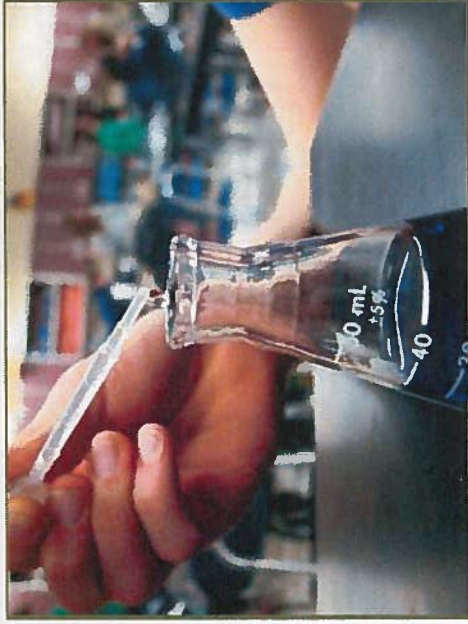
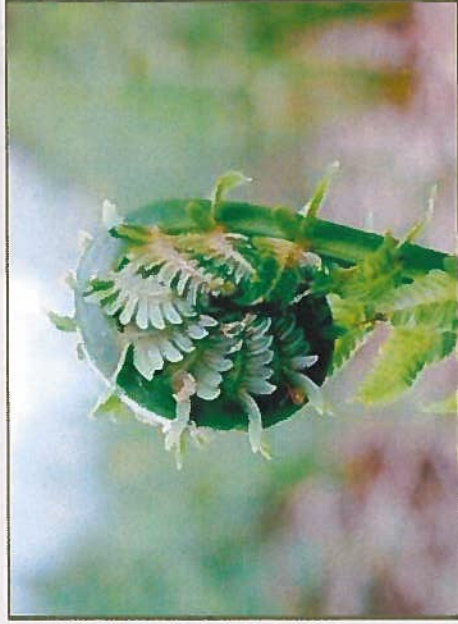
DUTY TO CONSULT & ACCOMMODATE

Phase 3: Accommodation




DUTY TO CONSULT & ACCOMMODATE

Phase 3: Accommodation

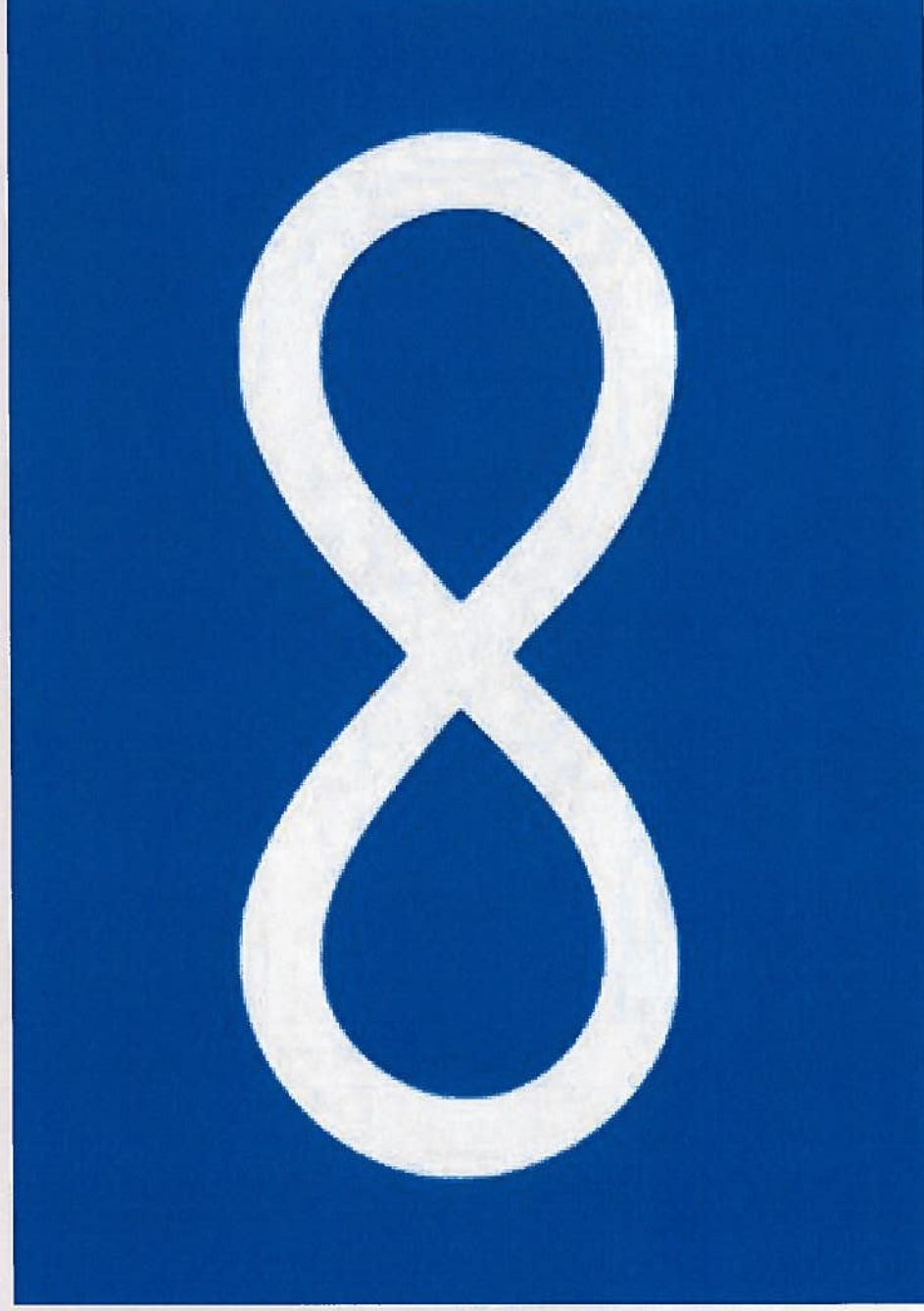


Métis Nation of Ontario
Lands, Resources and Consultations

Métis Nation
of Ontario 

DUTY TO CONSULT & ACCOMMODATE

Phase 3: Accommodation



Métis Nation of Ontario
Lands, Resources and Consultations

Métis Nation
of Ontario ∞

THANK YOU - QUESTIONS



www.metisnation.org



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Consultation Assessment
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Lands, Resources & Consultation
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416-977-9881 x114



Métis Nation of Ontario
Lands, Resources and Consultations

Métis Nation
of Ontario

Talvitie, Rick

From: Talvitie, Rick
Sent: Wednesday, May 04, 2016 7:41 AM
To: 'cclement@missanabiecree.com'
Subject: City of Sault Ste. Marie Waste Management EA
Attachments: January 2016 correspondence w missanabie cree.pdf

Good Morning Cathy,

The City of Sault Ste. Marie is proceeding with a Waste Management Environmental Assessment. The study dates back to 2007 and is now well advanced.

In January 2016 we forwarded the attached package to Chief Gauthier and I am just taking the opportunity to follow-up with you.

The attached newsletter provides a good overview of what has been accomplished to date and the current status of the project. In general however the preferred approach to managing waste within Sault Ste. Marie and the surrounding area is to continue to focus on reducing the amount of waste being disposed of through 3R's (reduce, reuse, recycle) initiatives and landfilling residual waste. To accommodate future landfilling an expansion of the City's existing landfill is proposed and we have recently completed an impact assessment for the preferred expansion concept. Details of the impact assessment were recently presented to City of Sault Ste. Marie council and a public input session was undertaken to solicit input.

We look forward to hearing back from you if there is an interest in the project.

Regards,

Rick Talvitie, P. Eng.
Manager, Northern Ontario
rick.talvitie@aecom.com

AECOM
523 Wellington Street East,
Sault Ste. Marie, Ontario Canada P6A 2M4
T 705.942.2612 F 705.942.3642
www.aecom.com



AECOM

Appendix C

**June 26, 2007 Public Input
Session**



Solid Waste Disposal Environmental Assessment PUBLIC INPUT SESSION No. 1

Sault Ste. Marie Conducts First Public Input Session!

Are you interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to dispose of waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve? If so, we encourage you to attend this public input session!

The City of Sault Ste. Marie is holding a public input session for the Solid Waste Disposal Environmental Assessment to discuss both diversion and disposal of solid waste.

We will update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches that are being considered to dispose of the residual solid waste. A principle objective of the session is to confirm the alternatives that are being considered (ie: increased 3R's, landfill, incineration and high heat processes, export and do-nothing) and to discuss the criteria that will be used to compare the alternatives.

Information on waste quantities, the alternatives and the evaluation criteria can be found in two working papers prepared for this session titled "Waste Quantity Projections and Existing Environment Profile" and "Alternatives To the Undertaking". These working papers can be downloaded from the City of Sault Ste. Marie website (<http://www.cityssm.on.ca/>) or viewed at the locations noted below commencing on June 19th.

You're Invited!

Date: Tuesday June 26, 2007

Time: 6:00 pm to 9:00 pm

Location: Civic Centre – Russ Ramsay Room

Please join us!

TSH Engineers Architects and Planners	523 Wellington Street
Civic Centre Engineering and Planning	99 Foster Drive, 5 th Floor
Public Works and Transportation	128 Sackville Road
Main Library	50 East Street
Churchill Branch Library	301 Lake Street
Korah Branch Library	496 Second Line
Township of Prince Municipal Office	3042 Second Line West
Batchewana First Nation	236 Frontenac Street
Garden River First Nation	7 Shingwauk Street
Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
Totten Sims Hubicki (TSH)
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rtalvitie@tsh.ca

Mrs. Susan Hamilton-Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
99 Foster Drive,
Sault Ste. Marie, Ontario
P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

Information pertaining to this session is available on the City of Sault Ste. Marie website at: <http://www.cityssm.on.ca/>. Hardcopies can also be obtained by contacting TSH at 705-942-2612.

We look forward to seeing you on June 26th!





Solid Waste Disposal Environmental Assessment

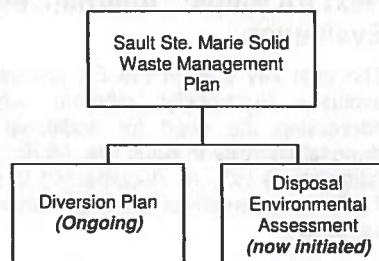
Newsletter No.1, October 2006

Page 1

Sault Ste. Marie Begins the Disposal Environmental Assessment (EA)

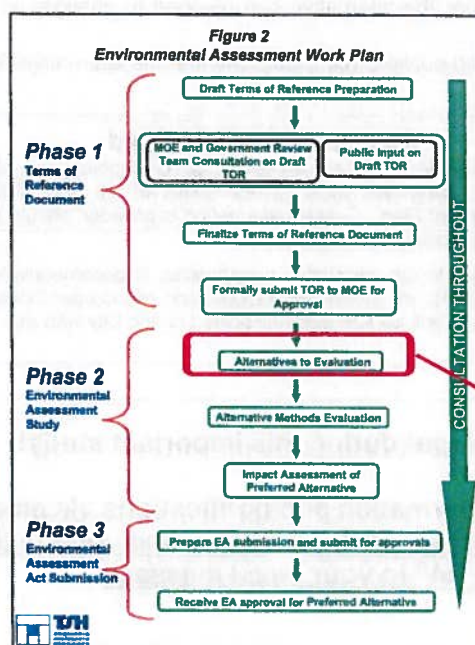
In September 2005 the Minister of the Environment approved the Environmental Assessment Terms of Reference (EA TOR) for the Sault Ste. Marie Solid Waste Management Plan. The EA TOR documents the process that will be followed to determine the preferred method for managing solid waste in Sault Ste. Marie for the next 20 to 40 years. In addition to the disposal EA, the Sault Ste. Marie Solid Waste Management Plan includes a significant diversion component.

A copy of the EA TOR is attached for your reference.



Diversion Update

The City of Sault Ste. Marie's waste diversion program currently includes collection and recycling of fibers and containers (ie: curbside yellow and blue box program); bi-weekly collection and composting of leaf and yard waste; a household hazardous waste depot; and segregation and recycling of metals, white goods, tires, and clean wood and brush at the solid waste landfill at 402 Fifth Line East. In 2005, the City limited residential waste setout to 2 bags/containers per week per household. Tags for additional waste bags or containers must be purchased. The residential waste diversion program diverted approximately 32% of residential waste from the landfill in 2005. This is a significant increase compared to the 8% diverted in 2000!



The EA Process Overview

The Environmental Assessment for disposal capacity includes three key phases. The first phase was completed with the submission and approval of the EA Terms of Reference. We are now initiating the second phase: the Environmental Assessment Study itself. The last phase is submission of the EA documentation to the Ministry of the Environment and the subsequent government and public review and approval period. It is anticipated that the whole process will take until early 2009.

WE ARE HERE

The City has retained a team of consultants including Totten Sims Hubicki Associates and Dillon Consulting Limited to assist them in the preparation of the Waste Disposal EA.



Solid Waste Disposal Environmental Assessment

Newsletter No.1, October 2006

Page 2

Next EA Steps: "Alternatives To" Evaluation

The next key step in the EA process is to evaluate functionally different ways of addressing the need for additional waste disposal capacity in Sault Ste. Marie, (ie. the "alternatives to"). As documented in the EA TOR, the alternatives being considered are as follows:

- Increased 3R's (reduce, reuse, recycle);
- Incineration & High Heat Processes;
- Landfill;
- Export Waste Outside Service Area;
- Do nothing.

Contact Us

Your input on this project is important to us. If you would like further information or to send comments, ask questions or be added to our mailing list, please contact us:

Mr. Rick Talvitie, P.Eng
Project Manager
Totten Sims Hubicki
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4

Phone: 705-942-2612
Fax: 705-942-3642
Email: rtalvitie@tsh.ca

Mrs. Susan Hamilton-Beach, P.Eng.
Director of Engineering Services
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, Ontario
P6A 5N1

Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

The evaluation of "alternatives to" will be carried out at a general level. Specific locations and technologies for the above mentioned alternatives will not be included in this step but will be considered in the next step (ie. alternative methods evaluation).

In the EA Terms of Reference, criteria were proposed for the evaluation of the "alternatives to". The proposed criteria for the evaluation of "alternatives to" are listed below.

- Compliance with regulations and policies (addresses the ability to meet all applicable regulations and policies);
- Environmental acceptability (addresses potential environmental affects of the alternative);
- Ability of the City to implement the alternative (considers whether the City has the ability and mandate to implement the alternative);
- Flexibility of the system (considers whether the alternative can respond to changes in the waste stream);
- Capability of managing waste quantities and qualities (considers whether the alternative could handle the identified waste stream);
- Proven technical capability (considers whether the alternative has been proven successful in other experiences in Ontario or other jurisdictions); and
- Economic/Cost (considers the relative cost differences among the alternatives)

Keeping You Informed

This newsletter is part of a series that will be ongoing during this project to keep you aware of the status of the Solid Waste Management Plan. Contact information is provided should you wish more detailed information.

In addition to the newsletter, opportunities to become involved in the project will include workshops, and public open houses. Information will also be regularly posted on the City web site.

We look forward to receiving your input during this important study!

If you would prefer to receive future information and notifications via email please forward your email address to nirwin@tsh.ca. Please include the title "City of SSM Waste Disposal EA" in your email message.



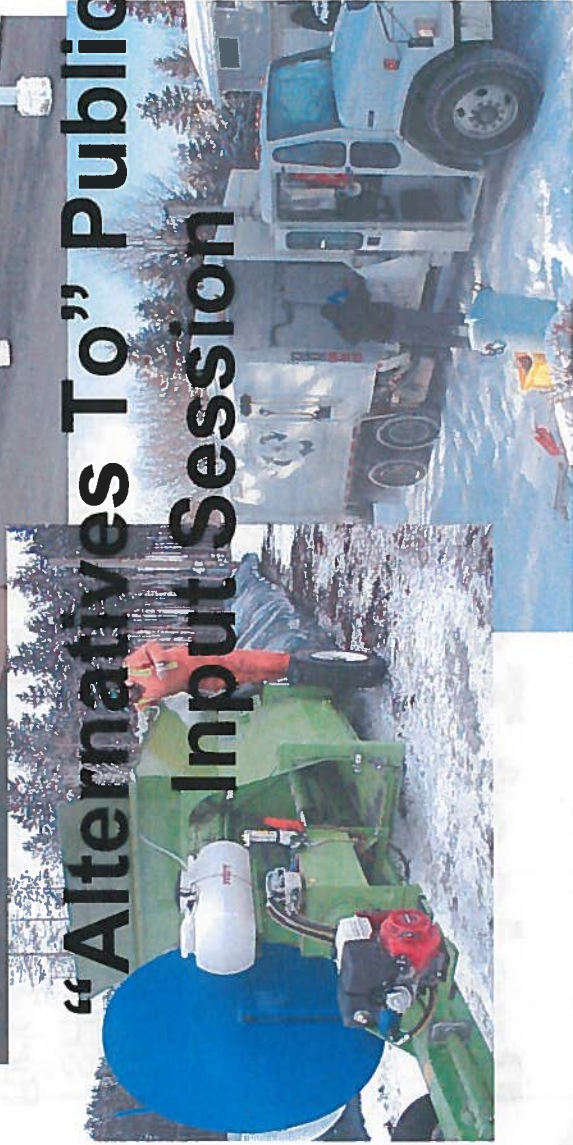


WELCOME!

Solid Waste Disposal Environmental Assessment



"Alternatives To" Public Input Session





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CONSULTING

Project Team

Proponent – City of Sault Ste. Marie

Susan Hamilton-Beach – Project Lead

Consultant Team

TSH Associates - Lead Consultant

Rick Talvitie – Consultant Project Manager

Dillon Consulting

Karla Kolli – EA Coordinator

Genivar

Janine Ralph – Thermal Technologies

Planning Advisory Services

Bill Wierzbicki - Land Use Planning

Woodland Heritage Services

Luke Dalla Bona - Archaeology/Heritage





Objectives of the Session

- Obtain input on alternatives and the criteria for evaluation
- Obtain input on the relative importance of evaluation criteria
- Presentation information will include:
 - Waste management planning
 - Update on diversion success in Sault Ste. Marie
 - The EA process for disposal
 - Alternatives To
 - Evaluation criteria
 - Next steps



Waste Management Planning

- City has prepared a comprehensive waste management plan over the last 6 years
- The “Plan” addresses waste diversion opportunities and waste disposal needs
- City has focused attention on Waste Diversion since 2001 with significant success

Waste Management Planning

To determine the preferred way to meet the waste management needs of the community over the next 20 to 40 years

Diversion

Reducing the amount of waste requiring disposal

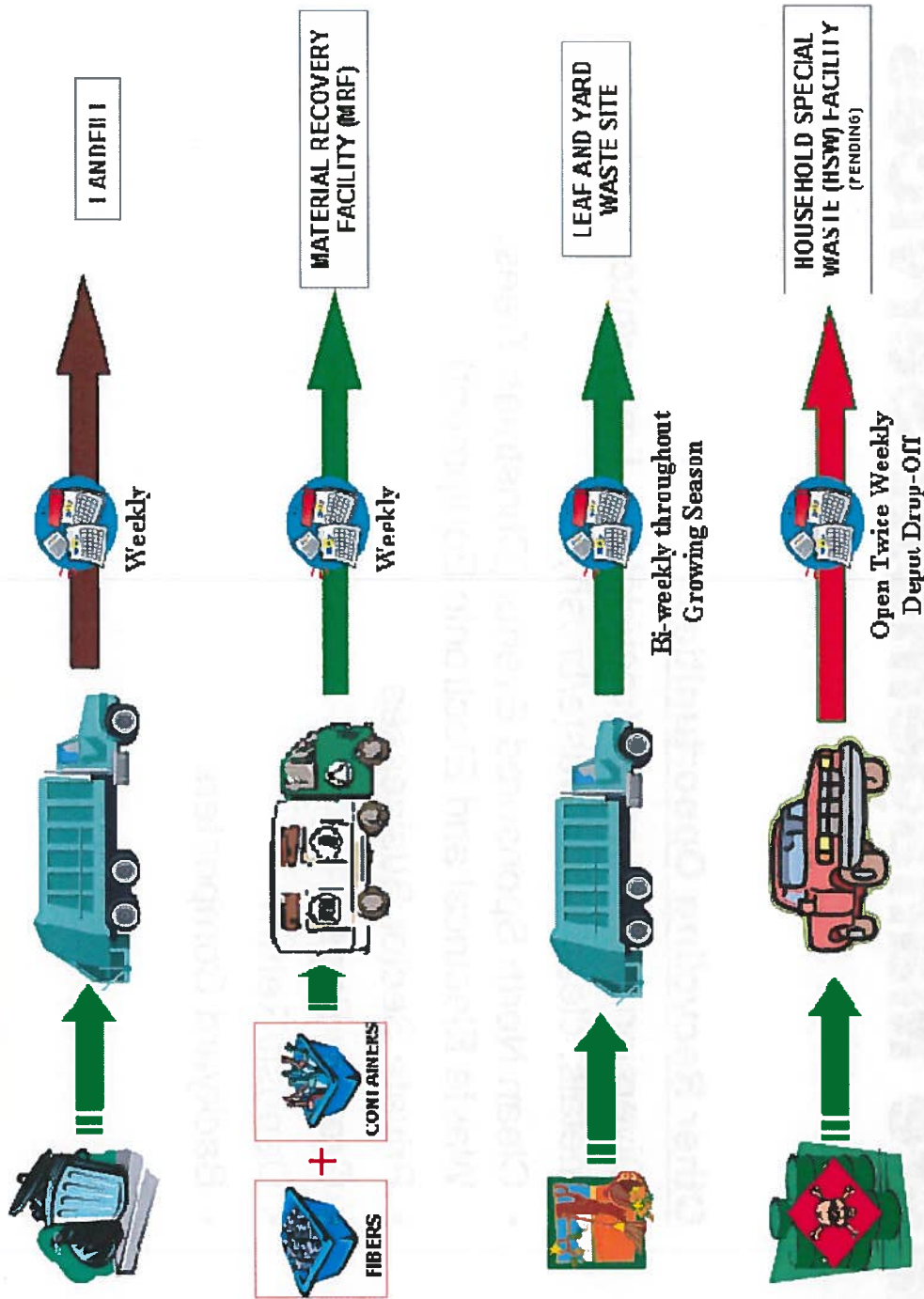
Disposal

Preferred way to manage remaining waste



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Waste Management Services





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Waste Management Services

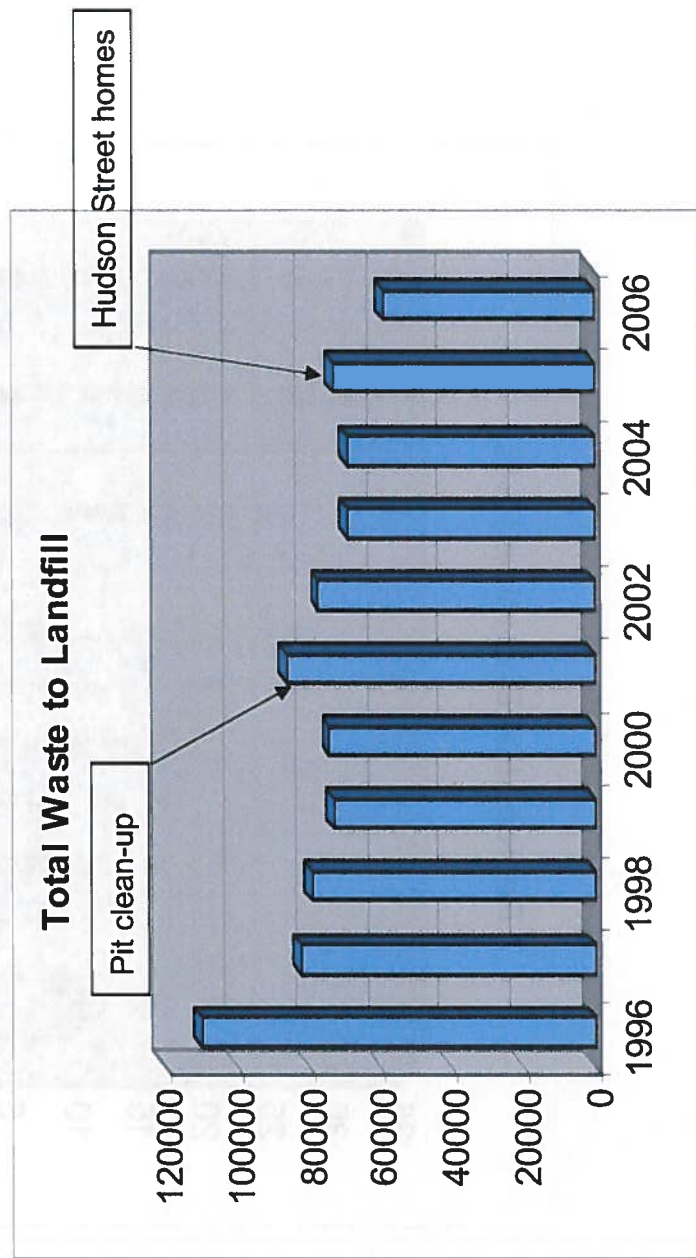
Other Recycling Opportunities

- Diversion at the Landfill (recyclables, tires, white goods, metals, clean wood waste/brush)
- Clean North Sponsored Events (Christmas Trees, Waste Electrical and Electronic Equipment)
- Private Sector Businesses
- Grocery Bags
- Deposit/Return
- Backyard Composters



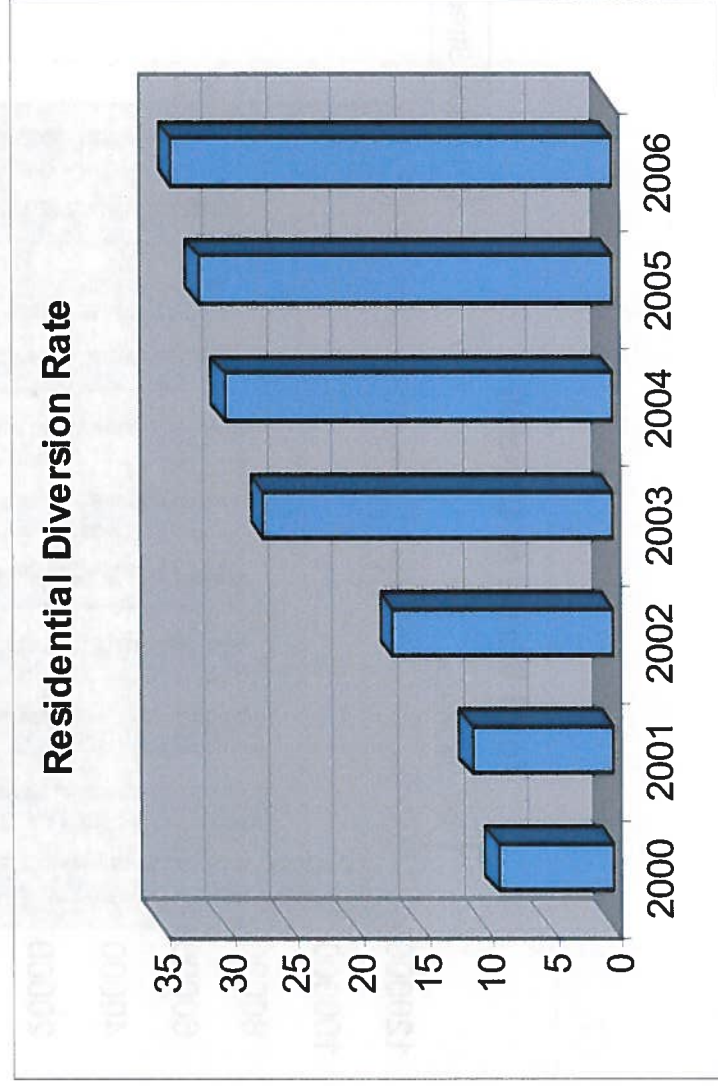


Accomplishments



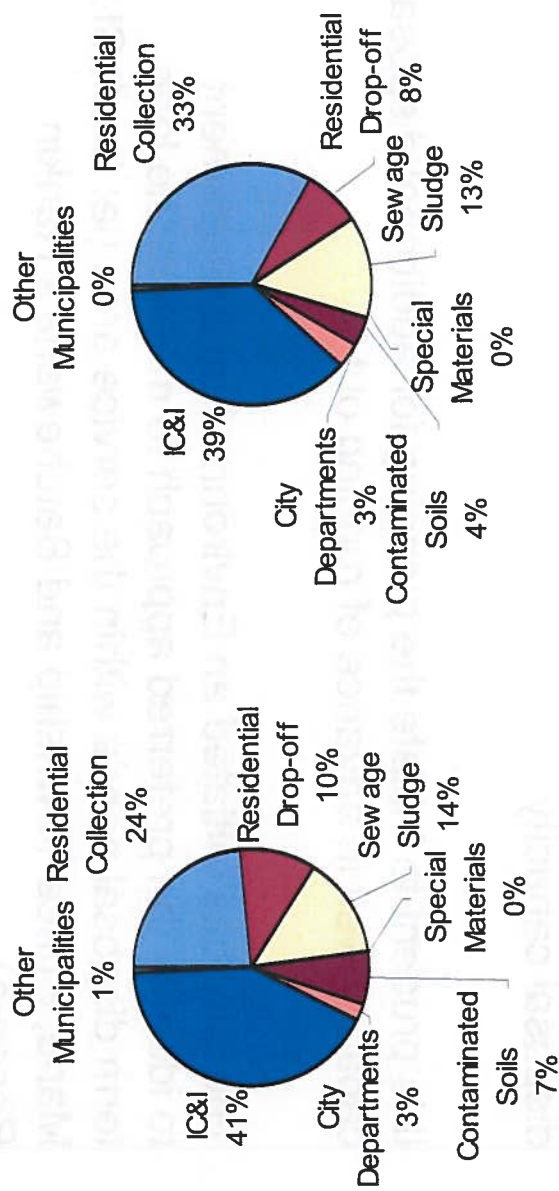
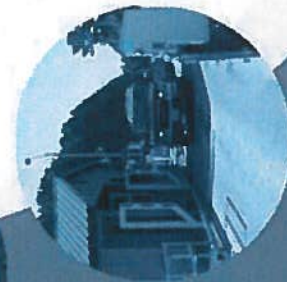


Accomplishments





Landfilled Waste Composition



2006

1999



Project Need

- The City landfill has an estimated 11 years of remaining disposal capacity
- It is prudent to initiate the planning for additional disposal capacity well in advance of running out
- The City has initiated an Environmental Assessment to identify the preferred approach to meeting the long term disposal needs within the service area (ie: Sault Ste. Marie, Prince Township and Batchewana's Rankin Reserve)





What is an EA?

Purpose = *"protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province"*.

It requires anyone who plans a project that could have a significant effect on the natural, social or economic environment to present the project for examination. The EA process serves several important purposes by:

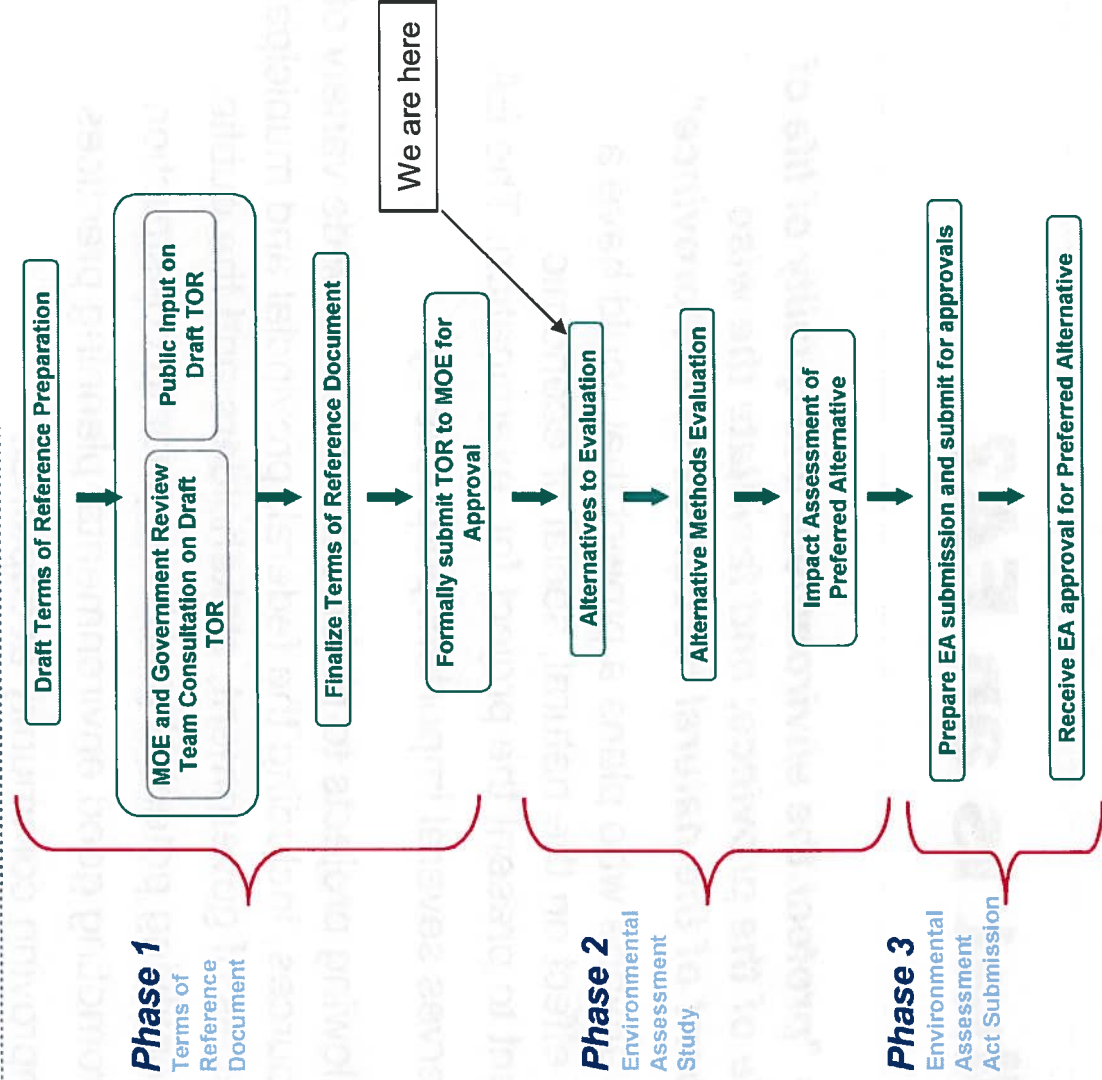
- Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, stakeholders and the public.
- Identifying potential problems prior to construction
- Promoting good environmental planning practices
- Improving community acceptance
- Better protecting the environment





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The EA Process





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“Alternatives To”

- Increased Waste Diversion
- Incineration and High Heat Processes
- Landfill
- Export of Waste Outside the Service Area
- Do nothing



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Increased Waste Diversion

- City is currently achieving a 34% residential waste diversion rate.
- Under this alternative the diversion rate would be enhanced further through one or more of the following initiatives:
 - Improving existing practices with existing established programs
 - Additional materials in the “blue/yellow box” program
 - Initiating a household organics collection and processing program
 - Establishing a biosolids (ie: sewage sludge) management program
- Challenges to the implementation of increased 3R's include cost and current composting regulations
- Generally considered to have a positive impact on the environment.
- Some potential for nuisance impacts (e.g. trucks, noise, odour) associated with the facility
- Cost for this alternative is approximately \$40 to \$160/tonne





Incineration and High Heat

- Conventional combustion technologies or high heat processes (gasification, pyrolysis)
- Generates heat that can generate steam/electricity (best located near facility where steam can be used directly)
- Not suitable for all wastes (eg. biosolids or contaminated soil)
- Typically sized for residential waste stream only which reflects a consistent and reliable feedstock (ie: 20,000 to 24,000 tpy)
- Process residues comprising 30% by weight and 10% by volume also require landfilling
- A small proportion of the residues is "hazardous"
- One incinerator in Ontario; a few new facilities being considered; examples in other jurisdictions
- Can meet provincial air quality requirements; some nuisance effects may be associated with facility (e.g. air, trucks, noise, dust)
- Tipping fee required to recover lifecycle costs (ie. capital and operating) in the range of \$110 to \$180 per tonne for incineration; and \$135 to 220 for high heat processes)





Landfill

- New capacity through expansion or new site
- Site would be engineered with liner/leachate management and landfill gas management
- Most common solid waste disposal method in Ontario
- Engineered facilities can meet provincial ground and surface water quality requirements
- Residual nuisance effects can include ground/surface water, odour, noise, dust, visual intrusion, truck traffic
- Flexible to changes in the waste stream
- Tipping fee required to recover lifecycle costs (ie. capital and operating) in the range of \$40-75 per tonne (Current Sault Ste. Marie tipping fee is \$65/tonne)





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Export

- There is a growing view in Ontario that the need for waste disposal should be handled in Province (recent Policy Statement on Waste Management Planning)
- Requires a transfer station(s) where waste would be loaded on large transport vehicles to be taken to the final disposal site.
- Added environmental effects = additional fuel consumption and air emissions, wear and tear on roads, disruption effects to local residents and users of the haul routes.
- Few export locations (Michigan, Espanola)
- Approximate cost range \$75 to \$95 per tonne (based on a \$65 tipping fee).



Evaluation Criteria

Criterion	Definition
Compliance with Regulations and Policies	Addresses the ability of the "alternative to" to meet all applicable regulations and policies that affect the planning, design and construction, operation and decommissioning of the alternative.
Environmental Acceptability	Addresses the potential for environmental effects associated with the alternative and the ability of the "alternative to" to be approved as an environmentally acceptable option. It represents both natural environment and social/cultural considerations.
Ability of City to Implement the Alternative	Considers whether the City has the ability and mandate to implement the alternative.
Flexibility of the System	Considers whether the alternative could respond to changes in the waste stream that could come about as a result of such things as increased diversion, changes in the economy or fluctuations in waste quantities and types.
Capability of Managing Waste Quantities and Qualities	Considers whether the alternative could handle the identified waste stream.
Proven Technical Capability	Considers whether the alternative has been proven through approval of similar facilities and years of successful operating experience in Ontario and other jurisdictions.
Economic/Cost	Considers the lifecycle cost of the alternative.

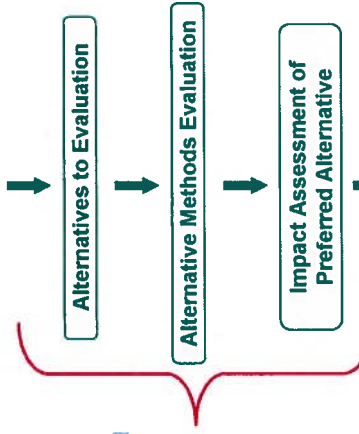


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Phase 2 Environmental Assessment Study



Next Steps



- Completion of the “Alternatives To” Evaluation:
 - Incorporate input on “alternatives to” and criteria
 - Use this information to evaluate “alternatives to”
 - Recommend a preferred alternative to for Sault Ste. Marie

- Next key EA Step – Alternative Methods Evaluation



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Schedule

- Report the results of the “Alternatives To” evaluation – approximately 2 months
- Public input session to discuss alternatives methods evaluation – approximately 6 months time
- Submission of EA document to MOE – Fall, 2008





City of Sault Ste Marie Solid Waste Disposal Environmental Assessment

“Alternatives To” Public Input Session PARTICIPANT WORKBOOK (June 2007)

If you are unable to attend, please submit a completed
workbook by July 20, 2007 to TSH (refer to page 7)



June, 2007 – Public Input Session



City of Sault Ste Marie Solid Waste Disposal Environmental Assessment

June 26, 2007; 6:00 pm to 9:00 pm

AGENDA

- 6:00 Welcome, Introductions and Agenda Review
- 6:10 Presentations, Overview Questions and Input Required
- 6:30 Discussion
Solid Waste Disposal EA - "Alternatives to" Evaluation
- 7:45 Beverage Break
- 8:00 Reporting on Discussion Results
- 8:15 Next Steps and Closing Remarks
- 8:20 to 9:00 Additional Time if needed for any item
- 9:00 Adjourn

* * * * *

NOTE: This workbook is intended to be read in combination with the "Alternatives To the Undertaking" Draft Working Paper, and the "Waste Quantity Projections and Existing Environment Profile" Draft Working Paper

Solid Waste Disposal EA **“ ALTERNATIVES TO” EVALUATION**

The “alternatives to” being considered include:

- Increased Waste Diversion
- Incineration and High Heat Processes
- Landfill
- Export of Waste Outside the Service Area
- Do nothing

The following are the evaluation criteria or things that will be considered when we evaluate these “alternatives” to select a preferred alternative for Sault Ste. Marie:

Criterion	Definition
Compliance with Regulations and Policies	Addresses the ability of the “alternative to” to meet all applicable regulations and policies that affect the planning, design and construction, operation and decommissioning of the alternative.
Environmental Acceptability	Addresses the potential for environmental effects associated with the alternative and the ability of the “alternative to” to be approved as an environmentally acceptable option. It represents both natural environment and social/cultural considerations.
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Proven Technical Capability	Considers whether the alternative has been proven through approval of similar facilities and years of successful operating experience in Ontario and other jurisdictions.
Economic/Cost	Considers the lifecycle cost of the alternative.

June, 2007 – Public Input Session

1. Are there additional alternatives or evaluation criteria you think should be considered?

2. In the presentation and the “Alternatives To” report we provided information on the advantages and disadvantages of each of the alternatives. Are there any advantages or disadvantages you feel we missed?

Alternatives	Please list any advantages that were missed	Please list any disadvantages that were missed
Increased Waste Diversion		
Incineration and High Heat Processes		
Landfill		
Export of Waste Outside the Service Area		
Do nothing		

June, 2007 – Public Input Session

3. Based on your understanding of the alternatives, are there any that you feel clearly should be excluded from serious consideration? Please indicate why?



UH
engineers
architects
planners



June, 2007 – Public Input Session

4. Of the remaining alternatives, how well do you feel each meets the intention of the evaluation criteria. For example, for the first criterion – compliance with regulations and policies, do the alternatives totally comply, comply to most but not all, don't comply at all. Please use the following table to show us your opinions.

- fill in the alternatives you are looking at across the top and color in the circles to represent the extent you feel the alternative meets the intent of the criterion. A full circle means completely meets the criterion; an empty circle means does not meet it at all

Criterion						
Compliance with Regulations and Policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability of City to Implement the Alternative	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flexibility of the System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capability of Managing Waste Quantities and Qualities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proven Technical Capability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic/Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

June, 2007 – Public Input Session

5. In your opinion, should all the criteria be considered equally in the evaluation or are there some criteria that you feel are more important or less important? If so, explain why and fill in the table.

Criteria	Relative Importance - color in the circles to reflect the relative importance of the criterion in comparison to the other criteria. A full circle reflects the most important criterion; an empty circle means the least important criterion
Compliance with Regulations and Policies	<input type="radio"/>
Environmental Acceptability	<input type="radio"/>
Ability of City to Implement the Alternative	<input type="radio"/>
Flexibility of the System	<input type="radio"/>
Capability of Managing Waste Quantities and Qualities	<input type="radio"/>
Proven Technical Capability	<input type="radio"/>
Economic/Cost	<input type="radio"/>

Other Key Issues/Additional Comments

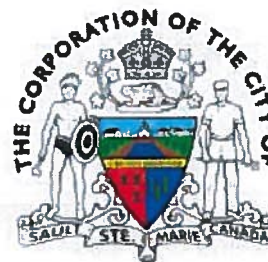
6. Do you have any other issues or additional comments you would like to make?

PLEASE RETURN completed workbooks by July 20, 2007 to:

TSH Associates
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4

Attention: Rick Talvitie, P.Eng.

Thank you!



Please add me to the mailing list:

Name: _____

Address: _____

Phone: _____



AECOM

Appendix D

**August 9, 2007 Public
Input Session**



City of Sault Ste. Marie Solid Waste Disposal Environmental Assessment PUBLIC OPEN HOUSE No. 1

Sault Ste. Marie Conducts First Public Open House in Garden River!

Are you interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to dispose of waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve? If so, we encourage you to attend this public open house!

The City of Sault Ste. Marie is holding a public open house for the Solid Waste Disposal Environmental Assessment to discuss both diversion and disposal of solid waste.

We will update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches that are being considered to dispose of the residual solid waste. A principle objective of the session is to confirm the alternatives that are being considered (ie: increased 3R's, landfill, incineration and high heat processes, export and do-nothing) and to discuss the criteria that will be used to compare the alternatives.

Information on waste quantities, the alternatives and the evaluation criteria can be found in two working papers prepared for this session titled "Waste Quantity Projections and Existing Environment Profile" and "Alternatives To the Undertaking". These working papers can be downloaded from the City of Sault Ste. Marie website (http://www.cityssm.on.ca/Open_Page.aspx?ID=639&deptid=1) or viewed at the Garden River First Nation Band Office (7 Shingwauk Street).

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
Totten Sims Hubicki (TSH)
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Sault Ste. Marie, Ontario
P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rtalvitie@tsh.ca

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
99 Foster Drive,
Sault Ste. Marie, Ontario
P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

Further information pertaining to the open house is available on the City of Sault Ste. Marie website at: http://www.cityssm.on.ca/Open_Page.aspx?ID=639&deptid=1. Hardcopies of the posted information can also be obtained by contacting TSH at 705-942-2612.

We look forward to seeing you on August 9th!





City of Sault Ste Marie Solid Waste Disposal Environmental Assessment

“Alternatives To” Public Open House PARTICIPANT WORKBOOK (August 2007)

If you are unable to attend, please submit a completed workbook or comments by August 24, 2007 to TSH (refer to page 7)



August, 2007 – Public Open House

This workbook is intended to be read in combination with the “Alternatives To the Undertaking” Draft Working Paper, and the “Waste Quantity Projections and Existing Environment Profile” Draft Working Paper. You are encouraged to complete the workbook and/or provide comments in the space provided on the last page.

Solid Waste Disposal EA **“ ALTERNATIVES TO” EVALUATION**

The “alternatives to” being considered include:

- Increased Waste Diversion
- Incineration and High Heat Processes
- Landfill
- Export of Waste Outside the Service Area
- Do nothing

The following are the evaluation criteria or things that will be considered when we evaluate these “alternatives” to select a preferred alternative for Sault Ste. Marie:

Criterion	Definition
Compliance with Regulations and Policies	Addresses the ability of the “alternative to” to meet all applicable regulations and policies that affect the planning, design and construction, operation and decommissioning of the alternative.
Environmental Acceptability	Addresses the potential for environmental effects associated with the alternative and the ability of the “alternative to” to be approved as an environmentally acceptable option. It represents both natural environment and social/cultural considerations.
Ability of City to Implement the Alternative	Considers whether the City has the ability and mandate to implement the alternative.
Flexibility of the System	Considers whether the alternative could respond to changes in the waste stream that could come about as a result of such things as increased diversion, changes in the economy or fluctuations in waste quantities and types.
Capability of Managing Waste Quantities and Qualities	Considers whether the alternative could handle the identified waste stream.
Proven Technical Capability	Considers whether the alternative has been proven through approval of similar facilities and years of successful operating experience in Ontario and other jurisdictions.
Economic/Cost	Considers the lifecycle cost of the alternative.

August, 2007 – Public Open House

1. Are there additional alternatives or evaluation criteria you think should be considered?

2. In the presentation and the “Alternatives To” report we provided information on the advantages and disadvantages of each of the alternatives. Are there any advantages or disadvantages you feel we missed?

Alternatives	Please list any advantages that were missed	Please list any disadvantages that were missed
Increased Waste Diversion		
Incineration and High Heat Processes		
Landfill		
Export of Waste Outside the Service Area		
Do nothing		



TSH
engineers
architects
planners



DILLON
CONSULTING

August, 2007 – Public Open House

3. Based on your understanding of the alternatives, are there any that you feel clearly should be excluded from serious consideration? Please indicate why?



UH
engineers
architects
planners



August, 2007 – Public Open House

4. Of the remaining alternatives, how well do you feel each meets the intention of the evaluation criteria. For example, for the first criterion – compliance with regulations and policies, do the alternatives totally comply, comply to most but not all, don't comply at all. Please use the following table to show us your opinions.

- fill in the alternatives you are looking at across the top and color in the circles to represent the extent you feel the alternative meets the intent of the criterion. A full circle means completely meets the criterion; an empty circle means does not meet it at all

Criterion						
Compliance with Regulations and Policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental Acceptability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ability of City to Implement the Alternative	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Flexibility of the System	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capability of Managing Waste Quantities and Qualities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Proven Technical Capability	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Economic/Cost	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

August, 2007 – Public Open House

5. In your opinion, should all the criteria be considered equally in the evaluation or are there some criteria that you feel are more important or less important? If so, explain why and fill in the table.

Criteria	Relative Importance - color in the circles to reflect the relative importance of the criterion in comparison to the other criteria. A full circle reflects the most important criterion; an empty circle means the least important criterion
Compliance with Regulations and Policies	<input type="radio"/>
Environmental Acceptability	<input type="radio"/>
Ability of City to Implement the Alternative	<input type="radio"/>
Flexibility of the System	<input type="radio"/>
Capability of Managing Waste Quantities and Qualities	<input type="radio"/>
Proven Technical Capability	<input type="radio"/>
Economic/Cost	<input type="radio"/>

August, 2007 – Public Open House

Other Key Issues/Additional Comments

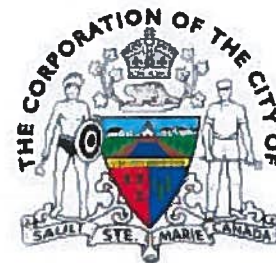
6. Do you have any other issues or additional comments you would like to make?

PLEASE RETURN completed workbooks by August 24, 2007 to:

**TSH Associates
523 Wellington Street East,
Sault Ste. Marie, Ontario
P6A 2M4**

Attention: Rick Talvitie, P.Eng.

Thank you!



Please add me to the mailing list:

Name: _____

Address: _____

Phone: _____



AECOM

Appendix E

**June 3, 2010 Public Input
Session**

THE CITY OF SAULT STE. MARIE

Notice of Public Information Centre

SOLID WASTE DISPOSAL ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its residual municipal solid waste. Work to date has included a thorough review of a number of waste management alternatives including increased waste diversion, incineration/high heat process, landfill, export waste and "do nothing". To identify a preferred waste management method, the alternatives were comparatively evaluated using the following seven criteria:

1. Compliance with current regulations and policies;
2. Environmental acceptability;
3. The ability of the City of Sault Ste. Marie to implement the preferred alternative;
4. Flexibility of the system;
5. Capability of managing waste quality and quantity;
6. Proven technical capacity; and
7. Cost.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative for the City has been identified as **increased waste diversion and landfilling of the residual waste.**

Residents currently divert approximately 34% of their waste from disposal and the City will continue to provide opportunities to improve on this diversion rate. The remaining 66% of residential waste and industrial, commercial and institutional wastes currently goes to the City landfill. In addition to the City's current diversion, the City has entered into a contract with a private corporation for the annual supply of 12,500 metric tonnes of municipal solid waste. This corporation intends to construct and operate a 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility will reduce the quantity of residual waste requiring disposal.

The results of the Environmental Assessment work completed to date suggest that landfill remains the most appropriate disposal option for the City's residual waste. Landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and recovered to generate electricity, landfills can manage the entire residual waste stream, are flexible to changes in waste quality and quantities and are cost effective.

PUBLIC INFORMATION CENTRE

A Public Information Centre is being held to provide an opportunity for you to discuss the project progress and have your questions or concerns addressed.

Date: Thursday, June 3, 2010
Location: Thompson Room
Civic Centre, 99 Foster Drive
Time: 3:30pm to 7:30 pm

THE NEXT STEPS

Over the summer the project team will be looking at options for landfilling residual waste. This work will include consideration of opportunities to expand the existing landfill or establish a new landfill site. In the Fall of 2010, we will be looking for public input on landfill options.

If you have any questions related to the study, please contact:

Mr. Rick Talvitie, P. Eng.
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612
Fax: 705-942-3642
E-mail: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P. Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580, 99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1

Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

If you would like to receive future information and notifications via email, please forward your email address to nancy.maahs@aecom.com. Please include the title "City of SSM Waste Disposal EA" in your message.



SOLID WASTE DISPOSAL

ENVIRONMENTAL ASSESSMENT

Newsletter No.2, May 2010

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its residual municipal solid waste. In the evaluation of "Alternatives To the Undertaking", a thorough review of different waste management alternatives including increased waste diversion, incineration/high heat processes, landfill, export waste outside the service area, and "do-nothing" was completed. To identify a preferred waste management method, the alternatives were comparatively evaluated using the following seven criteria:

1. Compliance with current regulations and policies;
2. Environmental acceptability;
3. The ability of the City of Sault Ste. Marie to implement the preferred alternative;
4. Flexibility of the system;
5. Capability of managing waste quality and quantity;
6. Proven technical capacity; and
7. Cost.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative for the City has been identified as **increased waste diversion and landfilling of the residual waste**.

DIVERSION UPDATE

The residential waste diversion program diverted approximately 34% of residential waste from the landfill in 2009. This shows consistent progress when compared to the 9% diverted in 2000! The City of

Sault Ste. Marie's waste diversion program currently includes weekly curbside collection and recycling of paper products in the yellow box and containers in the blue box; bi-weekly collection and composting of leaf and yard waste throughout the growing season (April through November); a household special waste facility at 115 Industrial Park Crescent; landfill bans and segregation and recycling of metals, white goods, tires, and clean wood and brush at the landfill at 402 Fifth Line East. Since 2006, the City has limited residential waste setout to 2 bags/containers per week per household. Tags for additional waste bags or containers must be purchased. The City diversion programs are also supplemented by diversion initiatives undertaken by the private sector and special interest groups.

The City is also currently assessing the feasibility of diverting municipal biosolids (sewage sludge) from disposal.



PUBLIC INFORMATION CENTRE

A Public Information Centre is being held to provide an opportunity for you to discuss the project progress and have your questions or concerns addressed.

Date: Thursday, June 3, 2010

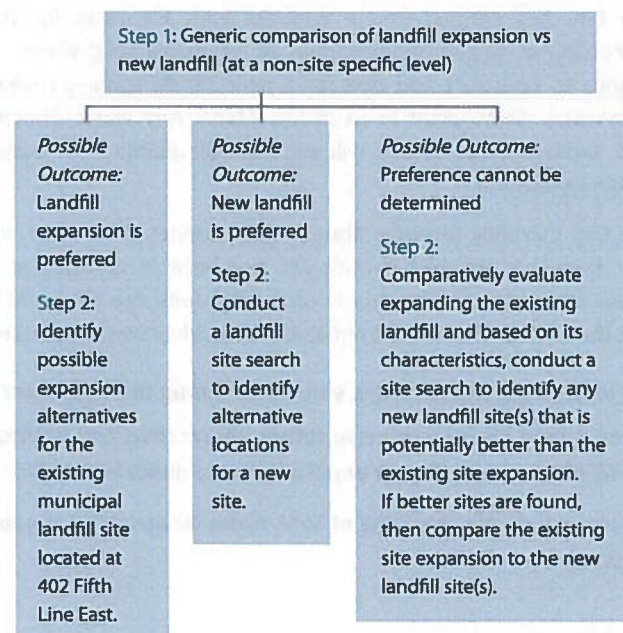
Location: Thompson Room
Civic Centre, 99 Foster Drive

Time: 3:30 pm to 7:30 pm

WHAT'S NEXT?

The results of the Environmental Assessment work completed to date suggest that landfill remains the most appropriate disposal option for the City's residual waste. Landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and recovered to generate electricity, landfills can manage the entire residual waste stream, are flexible to changes in waste quality and quantities and are cost effective.

Following the "Alternatives To" evaluation, the next step in the EA process for a landfill facility is the identification and evaluation of "Alternative Methods" of landfilling. This can include both alternative locations and alternative designs as illustrated in the flow chart below. We will be looking for public input on landfill options in the Fall of 2010.





SOLID WASTE DISPOSAL

ENVIRONMENTAL ASSESSMENT

Newsletter No.2, May 2010

ABOUT THE ENVIRONMENTAL ASSESSMENT (EA) PROCESS

The Environmental Assessment for disposal capacity includes three key phases. The first phase was completed with the submission and approval of the EA Terms of Reference. We are currently working within the second phase: the Environmental Assessment Study itself. The last phase is submission of the EA documentation to the Ministry of the Environment and the subsequent government and public review and approval period. It is anticipated that the whole process will take until late 2012.

In September 2005 the Minister of the Environment approved the Environmental Assessment Terms of Reference (EA TOR) for the Sault Ste. Marie Solid Waste Management Plan. The EA TOR documents the process that will be followed to determine the preferred method for managing solid waste in Sault Ste. Marie for the next 20 to 40 years. In addition to the disposal EA, the Sault Ste. Marie Solid Waste Management Plan includes a significant diversion component.

Keep up-to-date on the EA Study at the City of Sault Ste. Marie's website: http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1

ELEMENTA ENERGY-FROM-WASTE FACILITY

In 2007, an energy-from-waste (EFW) developer known as The Elementa Group (Elementa) constructed a pilot steam reformation plant that would convert municipal solid waste into a char and synthetic gas (or "syngas") that can be used to generate electricity.

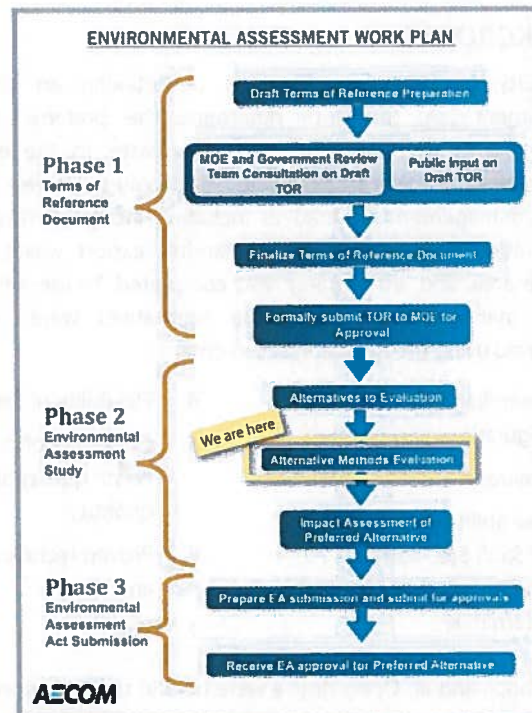
The City has entered into a contract with Elementa for the annual processing of 12,500 metric tonnes of municipal solid waste. Elementa intends to construct and operate a new 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility in the future will reduce the quantity of residual waste requiring disposal.

The City currently disposes about 60,000 tonnes of residual waste each year therefore; the EFW facility will not be able to manage the City's entire waste stream. The City is continuing with the EA study to ensure that the City can process the remainder of residual waste generated.

We look forward to receiving your input during this important study!

If you would prefer to receive future information and notifications via email, please forward your email address to nancy.maahs@aecom.com.

Please include the title "City of SSM Waste Disposal EA" in your message.



CONTACT US

Your input on this project is important to us. If you would like further information or to send comments, ask questions or be added to our mailing list, please contact us:

Mr. Rick Talvitie, P.Eng

Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.

Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1

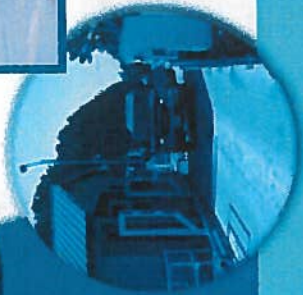
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on

AECOM

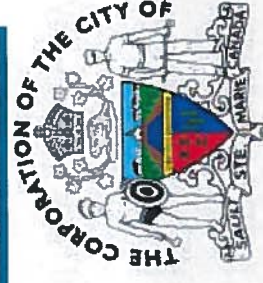
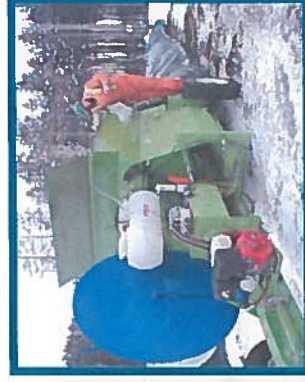


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Solid Waste Disposal Environmental Assessment



WELCOME to the
Public Information Centre



June 2010

Objectives of the Public Information Centre

- Provide an update on waste management planning in the City
- Provide an overview of the Environmental Assessment process
- Review the solid waste disposal alternatives considered during the Environmental Assessment process
- Present the preferred waste management alternative
- Provide the next steps in the Environmental Assessment process
- Answer your questions



Waste Management Planning

- In September 2000, the City initiated a Solid Waste Management Plan
- The Plan addressed waste diversion opportunities and waste disposal needs
- City has focused attention on waste diversion since 2001 with significant success.
- Waste diversion has increased from 9% in 2000 to **34% in 2009!**

Waste Management Planning

To determine the preferred way to meet the waste management needs of the community over the next 20 to 40 years

Diversion

Reducing the amount of waste requiring disposal

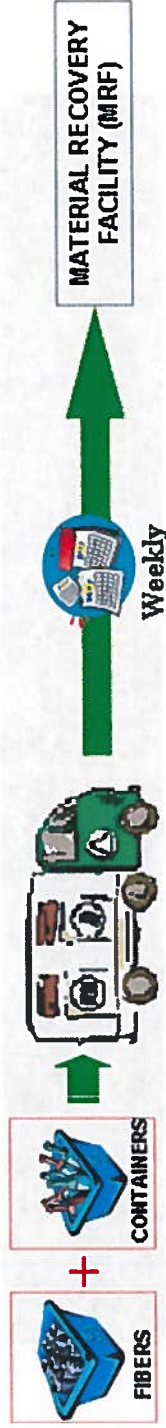
Disposal

Preferred way to manage remaining waste

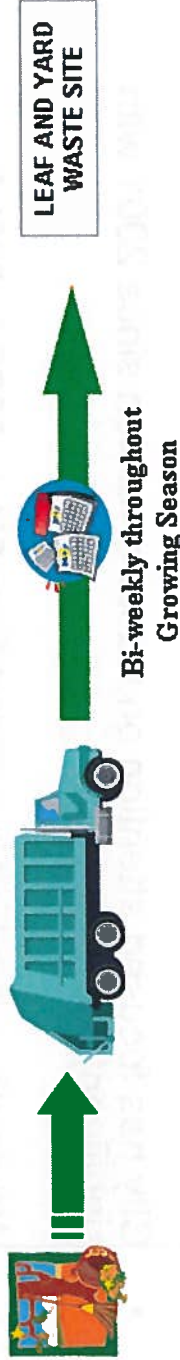


Waste Management Services

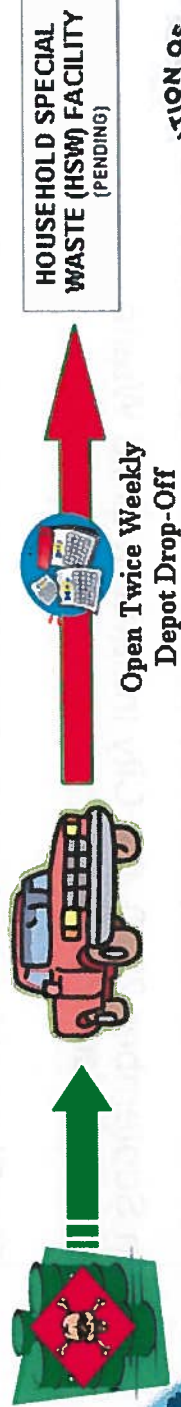
RECYCLING



LEAF AND YARD WASTE



HOUSEHOLD SPECIAL WASTE



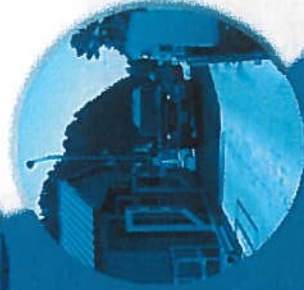
GARBAGE



Waste Management Services

Recycling Opportunities

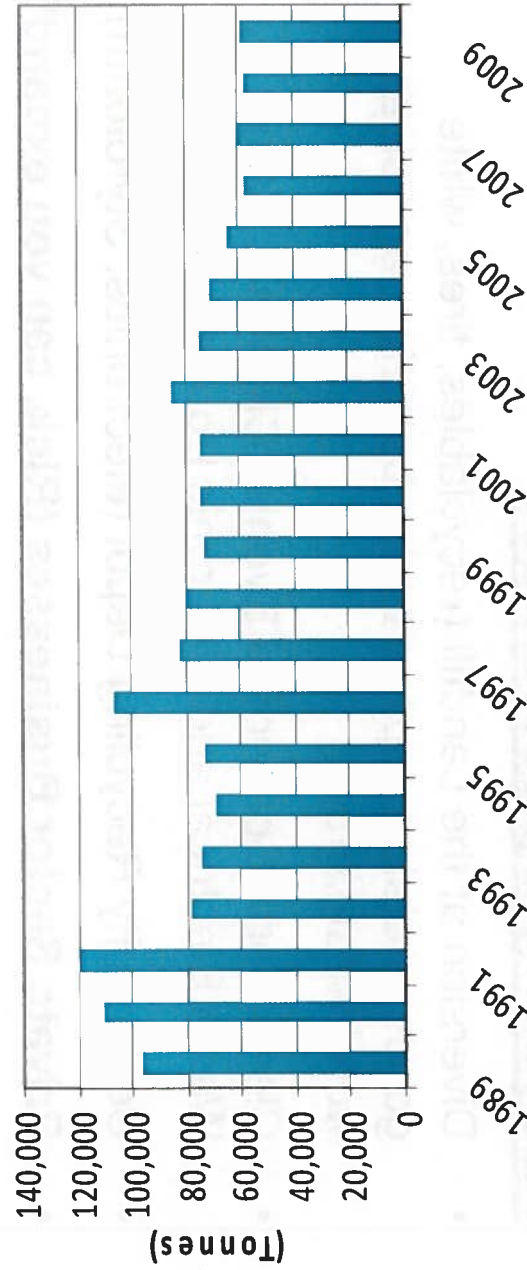
- Diversion at the Landfill (recyclables, tires, white goods, metals, propane tanks, batteries, and clean wood waste/brush)
- Clean North Sponsored Events (Christmas Trees, Waste Electrical and Electronic Equipment)
- Community Recycling Depot (electronics, Styrofoam)
- **Private Sector Businesses (Rick, can you expand?)**
- **Grocery Bags – (Rick, Take-back program?)**
- Deposit/Return (alcohol containers returned to The Beer Store)
- Distribution of Backyard Composters





Accomplishments

Annual Waste Quantities, 1989-2009

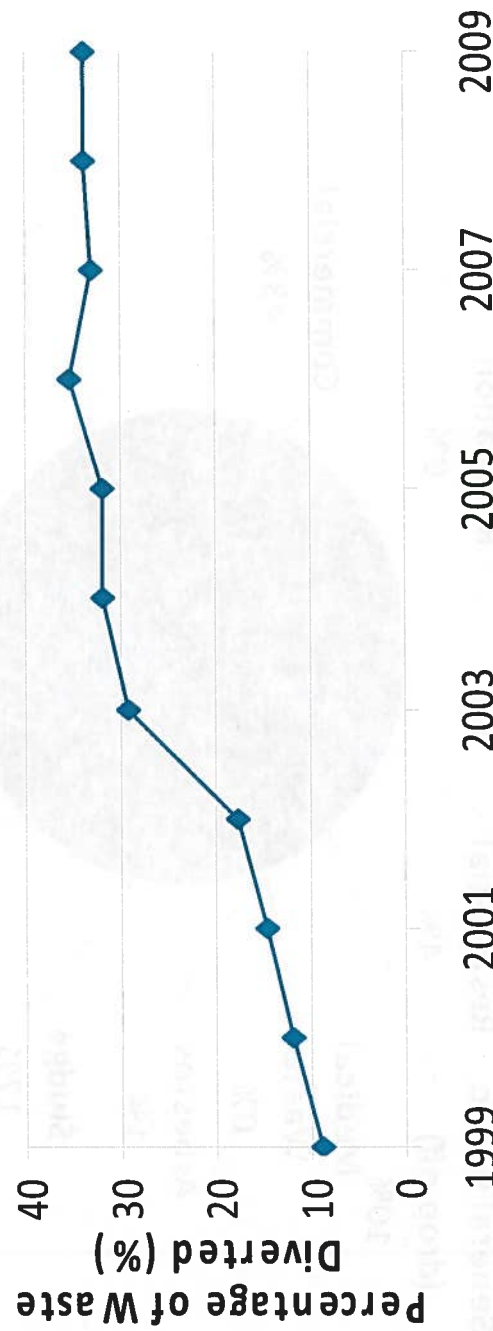


Reduced total waste disposed from 119,000 tonnes in 1991 to 59,000 tonnes in 2009!



Accomplishments

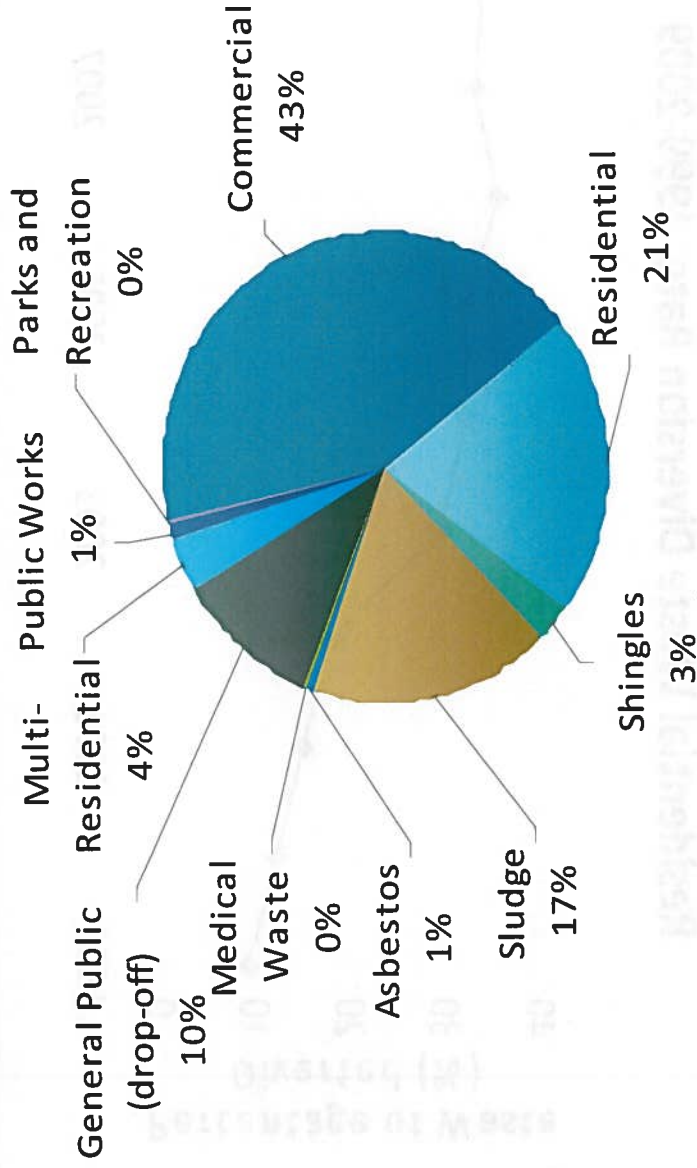
Residential Waste Diversion Rate, 1999-2009



**Increased residential diversion rate
from 9% in 2000 to 34% in 2009.**



Landfilled Waste Composition



2009



Project Need

- The City landfill has an estimated 7 years of remaining disposal capacity
- Despite significant success in enhancing waste diversion, additional disposal capacity is required
- It is prudent to plan for additional disposal capacity well in advance of capacity running out
- The Environmental Assessment process is being used to identify the preferred way to meet the long term disposal needs within the service area (Sault Ste. Marie, Prince Township and Batchewana's Rankin Reserve)





What is an EA?

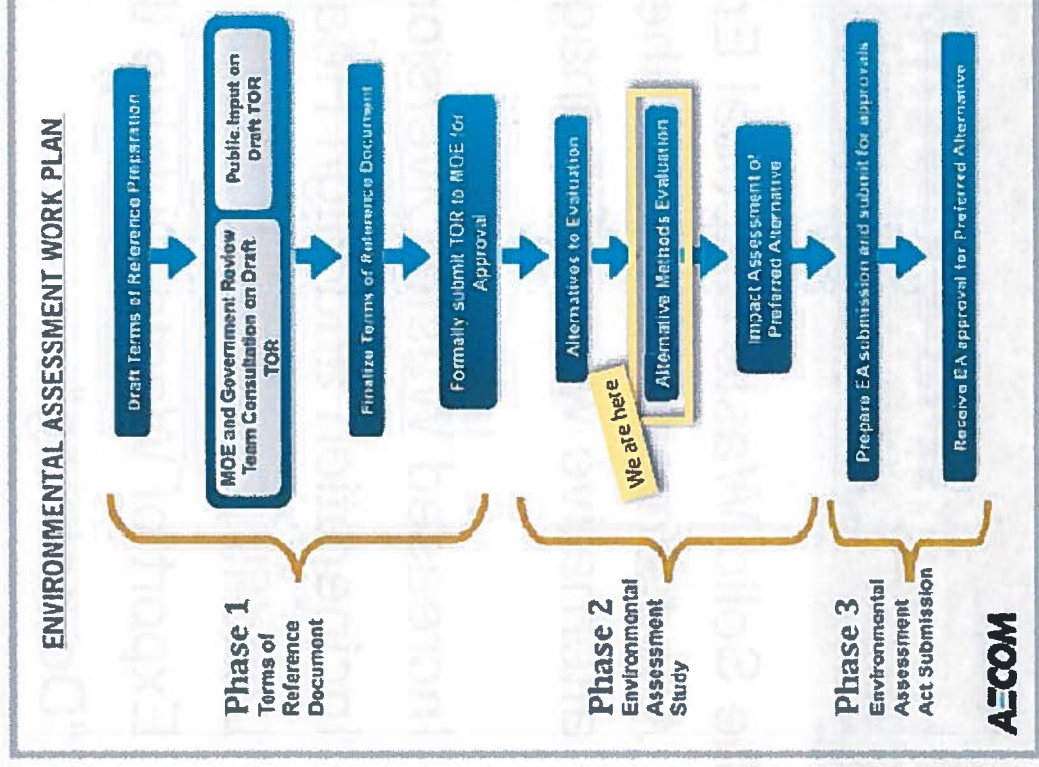
Purpose = “to protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province”.

- The *Environmental Assessment Act*, 1990 requires anyone who plans a project that could have a significant effect on the natural, social or economic environment to present the project for examination. The EA process serves several important purposes:
 - Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, stakeholders and the public.
 - Identifying potential problems prior to construction
 - Promoting good environmental planning practices
 - Improving community acceptance
 - Better protecting the environment





The EA Process



Consultation on alternative ways to manage waste ("Alternatives to") included

- Public Input Session and meetings with First Nations in June/July of 2007

- Today's Public Information Centre

Figure to be revised





Alternatives To The Undertaking

The Solid Waste Disposal Environmental Assessment considers the following alternative ways of managing waste:

- Increased Waste Diversion
- Incineration and High Heat Processes
- Landfill
- Export of Waste Outside the Service Area
- “Do-nothing”



Increased Waste Diversion

- City is currently achieving a 34% residential waste diversion rate.
- The diversion rate would be enhanced through improving existing programs and increasing the variety of materials diverted (recyclables, household organics, biosolids)
- Benefits
 - Less waste to dispose of
- Challenges
 - Current composting regulations
 - Potential for nuisances (e.g. trucks, noise, odour associated with processing facilities)
 - Even with aggressive diversion rates, additional disposal capacity is still required.
- Cost: Approximately \$40 to \$160 per tonne for household organics, \$100 to \$150 per tonne for additional collection and processing of recyclables



Incineration and High Heat Processes

- Conventional combustion technologies or high heat processes used to generate steam/electricity
- Pilot scale high heat facility currently operating in Sault Ste. Marie; a few other examples in Ontario
- Facilities are required to meet strict provincial groundwater, surface water and air quality standards
- Benefits
 - Generation of electricity
- Challenges
 - Typically sized for residential waste stream only; not suitable for all wastes (e.g. biosolids or contaminated soil)
 - Process residues also require landfilling; a small proportion of the residues are “hazardous”
 - Potential for nuisances (e.g. trucks, noise, odour associated with the facility)
- Cost: Approximately \$110 to \$170 per tonne for incineration and high heat processes





Landfill

- New capacity through expansion or new site
- Most common solid waste disposal method in Ontario
- Landfill facilities are required to meet strict provincial groundwater, surface water and air quality standards
- Site would be engineered with liner, leachate management and landfill gas management systems to minimize environmental impacts
- Benefits
 - Flexible to changes in the waste stream
 - Landfill gas could be burned to produce electricity
- Challenges
 - Potential for nuisances (e.g. trucks, noise, odour, dust, visual intrusion)
- Cost: Approximately \$70-80 per tonne



Export of Waste

- Export of waste to a disposal facility outside of the municipality
- Growing view that waste should be managed as close to the source of generation as possible (recent Ministry of the Environment Policy Statement on Waste Management Planning)
- Challenges
 - Requires a transfer station where waste would be loaded on large transport vehicles to be taken to the final disposal site
 - Added environmental effects include additional fuel consumption and air emissions, wear and tear on roads, disruption effects to local residents and users of the haul routes
 - Long term liability concerns
 - Few export locations (Michigan, Espanola) – Michigan closing its border to Ontario residential waste on December 31, 2010
- Cost: Approximately \$80 to \$90 per tonne (based on a \$70 - \$80 tipping fee)





Evaluation Criteria

Criterion	Definition
Compliance with Regulations and Policies	Addresses the ability of the "alternative to" to meet all applicable regulations and policies that affect the planning, design and construction, operation and decommissioning of the alternative.
Environmental Acceptability	Addresses the potential for environmental effects associated with the alternative and the ability of the "alternative to" to be approved as an environmentally acceptable option. It represents both natural environment and social/cultural considerations.
Ability of City to Implement the Alternative	Considers whether the City has the ability and mandate to implement the alternative.
Flexibility of the System	Considers whether the alternative could respond to changes in the waste stream that could come about as a result of such things as increased diversion, changes in the economy or fluctuations in waste quantities and types.
Capability of Managing Waste Quantities and Qualities	Considers whether the alternative could handle the identified waste stream.
Proven Technical Capability	Considers whether the alternative has been proven through approval of similar facilities and years of successful operating experience in Ontario and other jurisdictions.
Economic/Cost	Considers the lifecycle cost of the alternative.

Evaluation of Alternatives

The alternatives were compared based on the evaluation criteria.

The darker color shows preference for the alternative.

Criterion	Increase Waste Diversion	Landfill	Incineration/ High Heat Processes	Export	Do Nothing
Compliance with Regulations and Policies					
Environmental Acceptability					
Ability of the City to Implement Alternative					
Flexibility of the System					
Capability of Managing Waste Quantities and Qualities					
Proven Technical Capability					
Cost					



Preferred Solution

- On the basis of the evaluation criteria, the preferred solution for solid waste disposal is a combination of **increased diversion and landfill**. Feedback during the consultation process supported this conclusion.
- Advantages
 - Complies with relevant regulations and policies
 - Cost effective
 - Landfill can manage the entire waste stream
 - Most flexible to changes in the waste stream
 - Landfill gas can be collected and recovered to generate electricity
- Support of incineration/high heat processes has also been received
 - The City has incorporated this process by endorsing an agreement with Elementa (private sector energy-from-waste proponent) to send a portion of waste to their facility in Sault Ste. Marie.





Next Steps

- The City will continue to investigate ways to improve their waste diversion system.
- The next step in the EA process is to identify Alternative Methods of providing additional landfill capacity. This step will include the following:
 - Comparison of the advantages and disadvantages of expanding the existing landfill site or identifying a new landfill site
 - Comparing specific site options
- We will be looking for public input on the Alternative Methods in the Fall of 2010



Contact Us

Your input on this project is important to us!

If you would like further information or to send comments or questions please contact us:

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM

523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580

99 Foster Drive,
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Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on

To subscribe to the Project Newsletter, please email Nancy Maahs at
Nancy.maahs@aecom.com

Comment forms have
been provided to record
your comments on the
information presented
today. Please complete
your form and drop it off or
send it in.



Minutes of Meeting

Date of Meeting	June 8, 2010	Start Time	Project Number 60395
Project Name	Solid Waste Management Environmental Assessment		
Location	Garden River First Nation		
Regarding	Solid Waste Management EA in Sault Ste. Marie		
Attendees	Mrs. S. Hamilton Beach, City of Sault Ste. Marie Engineering Mr. R. Talvitie, AECOM Garden River First Nation Council Garden River First Nation Staff		
Distribution			
Minutes Prepared By	Rick Talvitie		

PLEASE NOTE: If this report does not agree with your records of the meeting, or if there are any omissions, please advise, otherwise we will assume the contents to be correct.

	Action
1.0 INTRODUCTION	
<p>Rick Talvitie "RT" (AECOM) and Susan Hamilton Beach "SHB" (City Engineering) attended a Garden River First Nation Band Council working meeting on June 8, 2010. The objectives of the visit included:</p> <ul style="list-style-type: none">• Provide an update on waste management planning in the City;• Provide an overview of the Environmental Assessment process ;• Review the solid waste management alternatives considered during the Environmental Assessment process;• Present the preferred waste management alternative;• Provide the next steps in the Environmental Assessment process; and• Answer questions.	Info.
<p>Prior to initiating the power point presentation a request was made by a Band Councillor to confirm that the presentation represents "information sharing" and is not intended to be "consultation". RT explained that the presentation is intended to be part of the City's consultation process for this project. The intention is to provide Band Council with the necessary information regarding the Waste Management Environmental Assessment to assist them in providing comments on the proposed undertaking.</p>	Info.
<p>Band Council members reiterated that they are prepared to listen to the presentation provided the presenters acknowledge that the session is being undertaken to share</p>	Info.

<p>information only. SHB noted that although similar undertakings in the City of Sault Ste. Marie are considered consultation she acknowledged that the minutes can reflect that we are engaged in information sharing.</p>	
<p>2.0 EXISTING LANDFILL OPERATIONS</p> <p>Prior to the power point presentation a Band Councilor noted that GRFN has concerns with potential adverse impacts the existing landfill may have on the Root River. The Root River is located adjacent to the City's landfill and ultimately discharges to the St. Mary's River which flows through GRFN.</p> <p>RT noted that this is an important question as it provides an opportunity to provide Band Council with a better understanding of the controls and monitoring activities at the City's landfill. RT explained that the City's landfill is an engineered site with the following environmental controls and monitoring activities:</p> <ul style="list-style-type: none"> • Groundwater flows from the north to the south, south east and south west. A leachate collector is located along the south and south eastern periphery of the site and a series of 10 purge wells are located along the western boundary (ie. downstream end of the landfill) which collect potentially contaminated groundwater (ie. leachate) and conveys it to a pumping station and ultimately to the City's west end sewage treatment plant. • To assess groundwater quality compliance at property boundaries some 70 to 80 ground water monitoring wells have been established within and adjacent to the site to assess ground water quality. Approximately 40 – 50 of these wells are sampled and analyzed three times each year and a report is prepared annually documenting the results. The site is required to meet stringent Ministry of Environment compliance criteria at the property boundary. • Five surface water stations are also sampled and analyzed several times each year. Two of the stations are located upstream and three are downstream of the site. The results are compared to the Provincial Surface Water Quality Objectives and documented each year in the annual report. • The aquatic biological community is also sampled at five locations (2 upstream and 3 downstream) to assess the health of these communities. The upstream results are compared with the downstream results. • The existing passive landfill gas flares are presently being upgraded to an active landfill gas collection system. The methane gas will be burned in a central flare and may be used to generate electricity in the future. <p>The information gathered each year is analyzed and a report is submitted to the Ministry of Environment.</p>	<p>Info.</p> <p>Info.</p> <p>Info.</p>

<p>3.0 WASTE MANAGEMENT EA</p> <p>SHB and RT completed a power point presentation to update Band Council on the status of the City's Waste Management Environmental Assessment. A copy of the power point slides is attached for reference.</p> <p>The following comments/questions were noted:</p> <ul style="list-style-type: none"> • Concerned with impacts to surface water quality as outlined in Section 2 of this meeting report. • Suggested that the City/AECOM contact Sue Chiblow (sue@coo.org) of Chiefs of Ontario. Sue's role is to assist Ontario First Nations in identifying potential concerns with Environmental projects. <p>RT noted that the next phase of the project will be completed throughout the summer and fall. A Public Information Centre or workshop will likely be conducted in the City of Sault Ste. Marie in the fall to solicit input on alternative methods of landfilling. RT noted that a similar open house could be conducted in Garden River if desired.</p> <p>SHB and RT thanked Band Council for their time and interest in the project.</p>	<p></p> <p>AECOM</p> <p>AECOM</p> <p>Info.</p> <p>Info.</p>
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AECOM

Appendix F

**April 19, 2011 Public Input
Session**



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. In the evaluation of "Alternatives To the Undertaking", a thorough review of different waste management alternatives including increased waste diversion, incineration/high heat processes, landfill, export waste outside the service area, and "do-nothing" was completed. To identify a preferred approach to managing waste, the alternatives were comparatively evaluated using the following seven criteria:

- | | |
|--|---|
| 1. Compliance with current regulations and policies; | 4. Flexibility of the system; |
| 2. Environmental acceptability; | 5. Capability of managing waste quality and quantity; |
| 3. The ability of the City of Sault Ste. Marie to implement the preferred alternative; | 6. Proven technical capacity; and |
| | 7. Cost. |

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste. The preferred alternative was presented at an Open House in June, 2010.

NEXT STEPS

The next step consists of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. This step will provide initial focus to the search for additional landfill capacity.

A preliminary evaluation of these alternatives has been completed by the project team. We are now seeking input from the general public and stakeholders regarding the evaluation criteria considered and the preliminary findings.

PUBLIC INPUT SESSION

If you are interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to landfilling residual waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve, we encourage you to attend this public input session!

We will provide you with background information, update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches to landfilling residual solid waste.

Background documents including the working paper to be discussed at the public input session entitled "Solid Waste Management Environmental Assessment - Alternative Methods - Step 1 (Landfill Expansion versus Development of a New Site)" are available on the City's website at http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1. Hardcopies of the working paper can also be obtained by contacting AECOM at 705-942-2612 or viewed at the locations noted below commencing on April 11th.

AECOM Canada Ltd.	523 Wellington Street
Civic Centre Engineering and Planning	99 Foster Drive, 5th Flr.
Public Works and Transportation	128 Sackville Road
Main Library	50 East Street
Churchill Branch Library	301 Lake Street
Korah Branch Library	496 Second Line
Township of Prince Municipal Office	3042 Second Line West
Batchewana First Nation	236 Frontenac Street
Garden River First Nation	7 Shingwauk Street
Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East

CONTACT US

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Mrs. Susan Hamilton Beach, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5385
Fax: (705) 541-7165
Email: s.hamiltonbeach@cityssm.on.ca

YOU'RE INVITED!

Date: Tuesday April 19, 2011
Location: Civic Centre –
Russ Ramsay Room
Time: 6:30 pm to 9:00 pm

Refreshments to be provided.

If you cannot attend the public input session in person, we still want to hear from you! Just go to the City's website (http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1), review the Alternatives Method - Step 1 Report and fill out our online questionnaire. A link to the online questionnaire is provided on the City's website.



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. In the evaluation of "Alternatives To the Undertaking", a thorough review of different waste management alternatives including increased waste diversion, incineration/high heat processes, landfill, export waste outside the service area, and "do-nothing" was completed. To identify a preferred approach to managing waste, the alternatives were comparatively evaluated using the following seven criteria:

1. Compliance with current regulations and policies;
2. Environmental acceptability;
3. The ability of the City of Sault Ste. Marie to implement the preferred alternative;
4. Flexibility of the system;
5. Capability of managing waste quality and quantity;
6. Proven technical capacity; and
7. Cost.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste. The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the entire residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

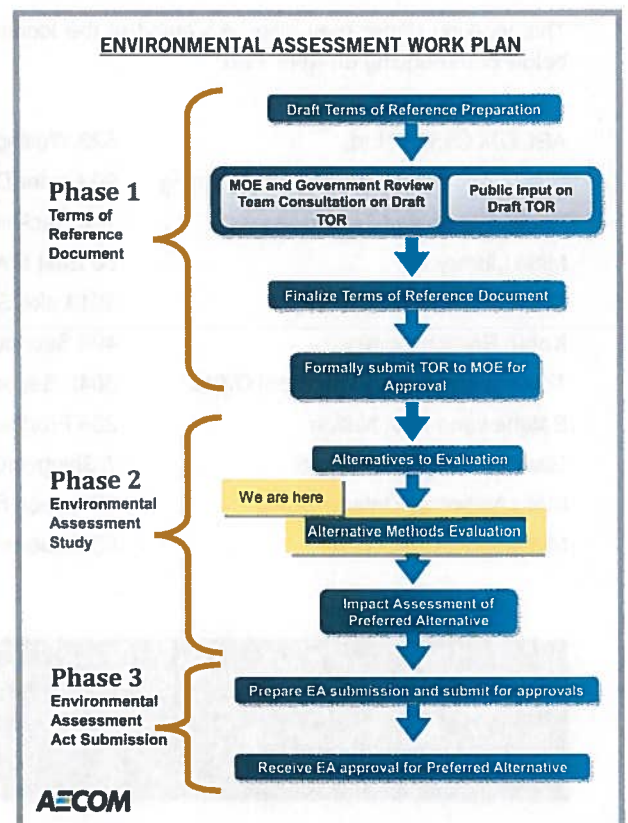
The flexibility of the preferred alternative is particularly important given the City's contract with The Elementa Group (an energy-from-waste service provider) for the annual processing of at least 12,500 metric tonnes of municipal solid waste. Elementa intends to construct and operate a new 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility in the future will reduce the quantity of residual waste requiring disposal in a landfill.

NEXT STEPS

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require Environmental Assessment (EA) Act approval, the EA study is now focusing on alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step to be completed in this phase consists of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. This step will provide initial focus to the search for additional landfill capacity.

A preliminary evaluation of these alternatives has been completed by the project team. We are now seeking input from the general public and Stakeholders regarding the evaluation criteria considered and the preliminary findings.





THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

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If you are interested in discussing the alternatives and criteria that will be used to compare and select a preferred approach to landfilling residual waste in Sault Ste. Marie, Prince Township and Batchewana First Nation's Rankin Reserve, we encourage you to attend this public input session!

We will provide you with background information, update you on the City's achievements in increasing waste diversion and discuss with you the alternative approaches to landfilling residual solid waste. A principle objective of the session is to confirm whether the City should focus its efforts to obtain additional disposal capacity by expanding an existing landfill site or finding a location for a new site.

Background information documenting the work completed to date is available on the City website at http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1.

In addition, the alternatives and the evaluation criteria currently being considered are also available on the website in a working paper prepared for this session titled "Solid Waste Management Environmental Assessment - Alternative Methods – Step 1 (Landfill Expansion versus Development of a New Site).

This working paper may also be viewed at the locations noted below commencing on April 11th.

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Civic Centre Engineering and Planning	99 Foster Drive, 5th Flr.
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Information pertaining to this session is available on the City of Sault Ste. Marie website at:

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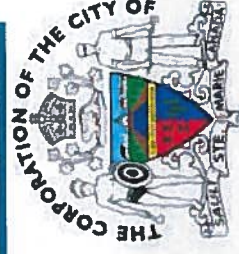
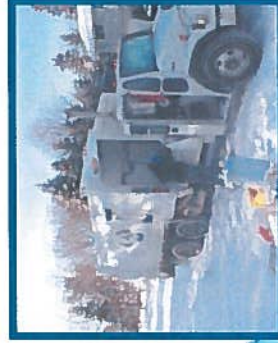
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Solid Waste Management Environmental Assessment

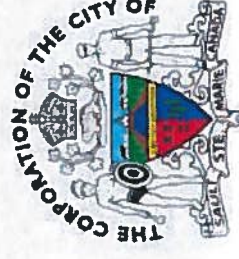
WELCOME to the
Public Input Session



April, 2011

Agenda

- Record your name and contact information on the sign-in sheet.
- Consultant presentation.
- Question and Answer period.
- Refreshment break.
- Break out into working groups to complete workbooks.
- Wrap-up/Summary





Objectives of the Public Input Session

- Provide an update on waste management planning activities and results
- Review project need
- Provide an overview of the Environmental Assessment process and where we are at in the process
- Present the criteria and approach used in the evaluation of a new site versus expansion of an existing site
- Present the preliminary results of the evaluation completed by the project team
- Solicit input on the evaluation and preliminary findings
- Solicit input on the evaluation criteria to be used in the next steps
- Identify the next steps in the EA process
- Answer your questions



Waste Management Planning

Waste Management Planning

To determine the preferred way to meet the waste management needs of the community over the next 20 to 40 years



Diversion

Reducing the amount of waste requiring disposal

Disposal

Preferred way to manage residual waste

- In September 2000, the City initiated a Solid Waste Management Plan
- The Plan addressed waste diversion opportunities and waste disposal needs
- City focused attention on diversion (ie. 3Rs - reduce/ reuse/ recycle) over the last decade with significant success.
- Waste diversion has increased from 9% in 1999 to **34% in 2009!**

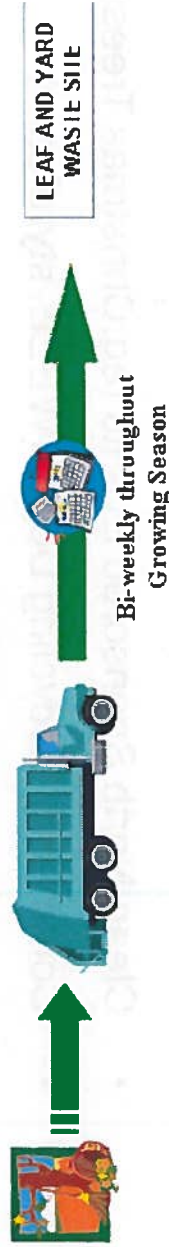


Principle Waste Management Services

RECYCLING



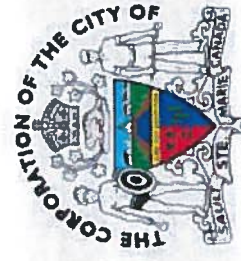
LEAF AND YARD WASTE



HOUSEHOLD SPECIAL WASTE



GARBAGE



Waste Management Services

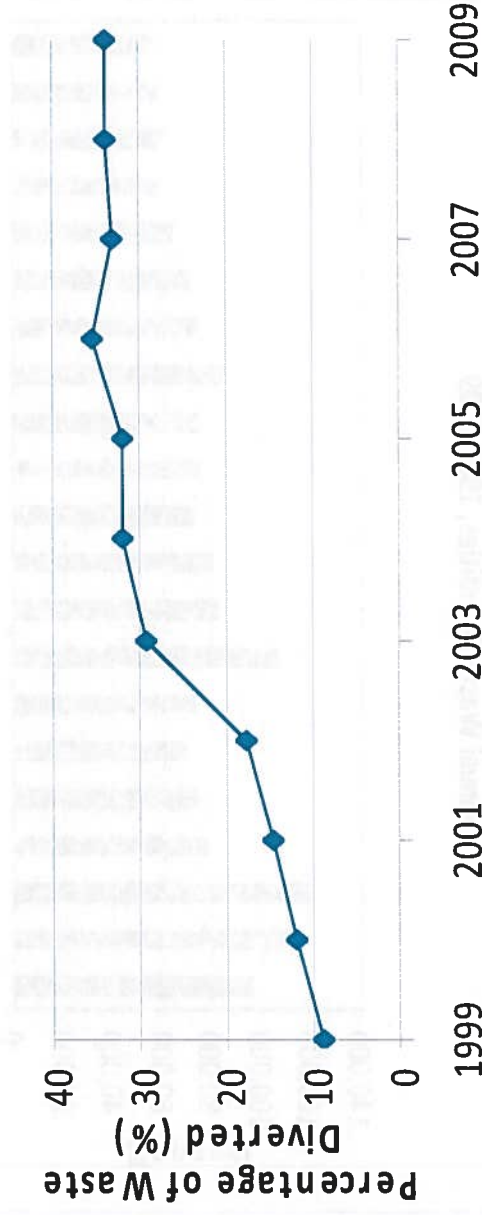
Diversion Opportunities

- Diversion at the Landfill (recyclables, tires (OTS), white goods, metals, propane tanks, batteries, and clean wood waste/brush)
- Clean North Sponsored Events (eg.Christmas Trees)
- Community Recycling Depot (WEEE, styrofoam)
- Habitat for Humanity Restore (reusable items)
- Grocery Bags – “Say yes to reuse and recycle”
- Discount for refillable coffee cups at City venues
- Deposit/Return (alcohol containers returned to The LCBO/Beer Store)
- Distribution of Backyard Composters
- Other private sector businesses

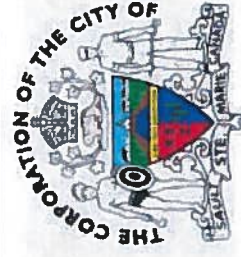


Accomplishments

Residential Waste Diversion Rate, 1999-2009

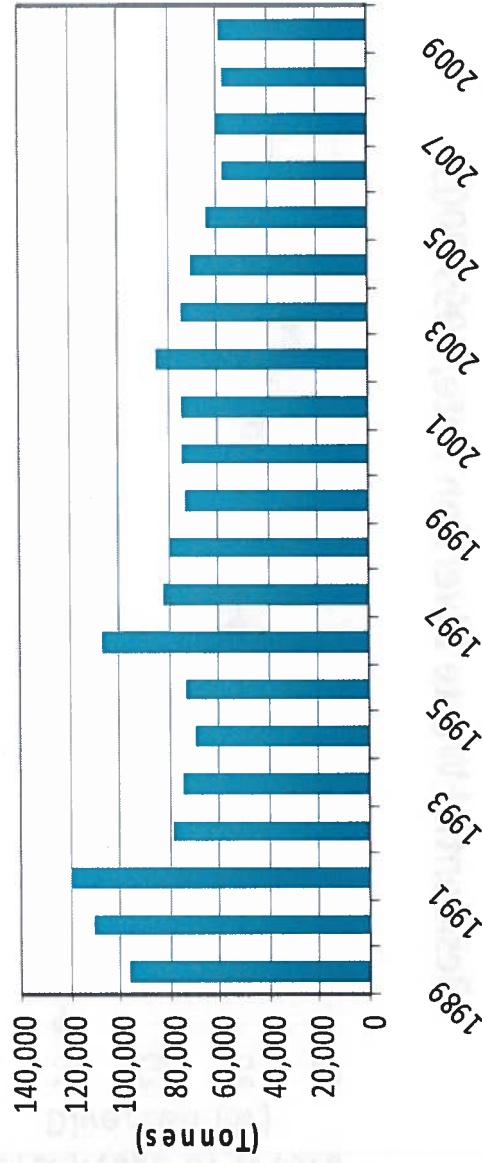


**Increased residential diversion rate
from 9% in 1999 to 34% in 2009.**



Accomplishments

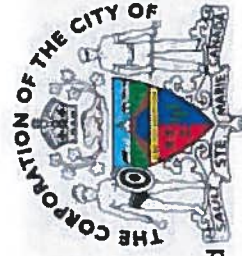
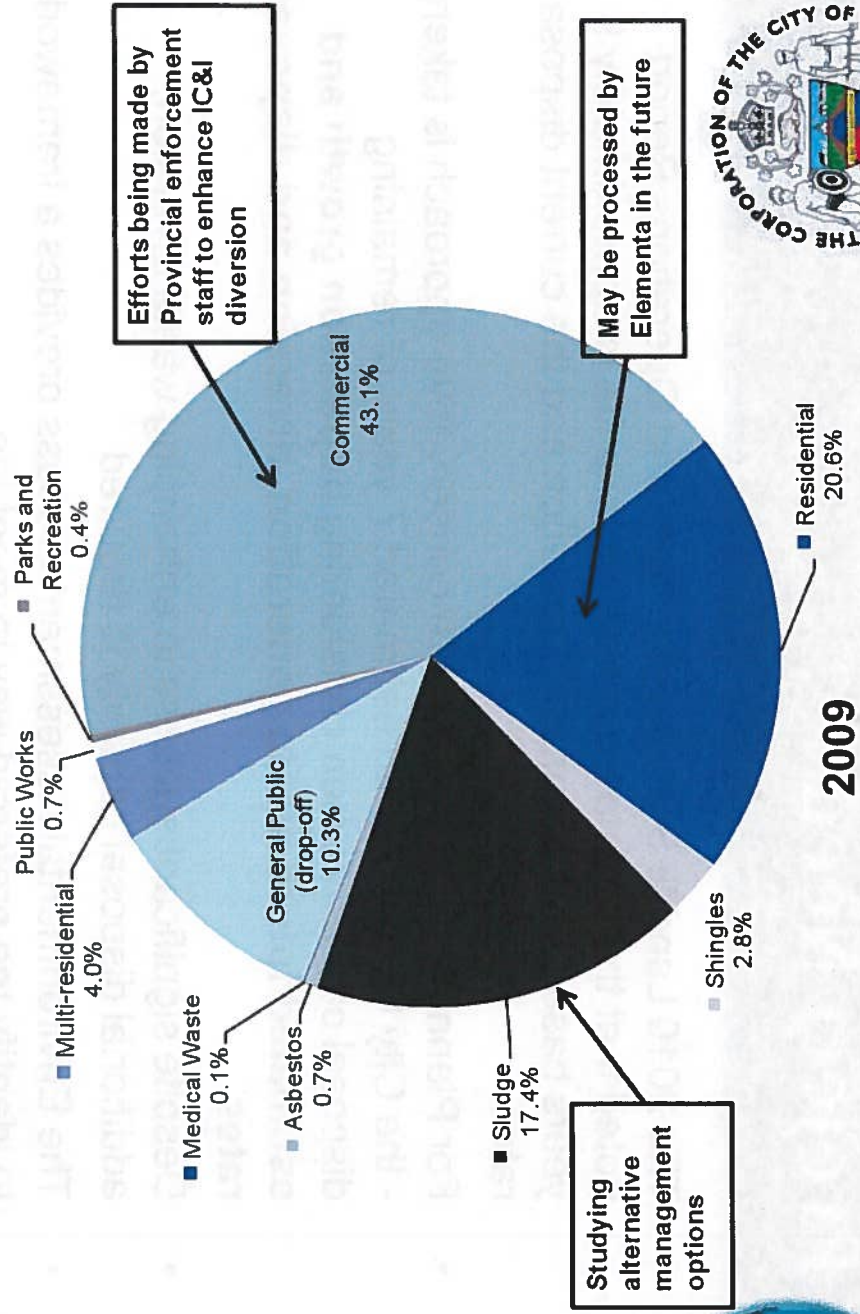
Annual Waste Quantities, 1989-2009



Reduced total waste disposed from more than 70,000 tonnes between 1989 to 2004 (max. of 119,000 tonnes) to less than 60,000 tonnes over the last 4 years!



Landfilled Waste Composition



In addition to the above, approximately 9,900 tonnes of street sweepings and contaminated soil were managed at the site



Project Need

- The 2010 Landfill Site Development and Operations Report noted that the estimated remaining site life is approximately 9 years based on a stagnant population and the current disposal rates
- For Planning purposes a more conservative approach is taken - the City landfill has an estimated 7 years of remaining disposal capacity when considering **population growth and estimated future waste generation, diversion and disposal rates**
- Despite significant success in enhancing waste diversion, additional disposal capacity is required
- The Environmental Assessment process provides a framework to identify the preferred way to meet the long term disposal needs within the service area in a transparent manner



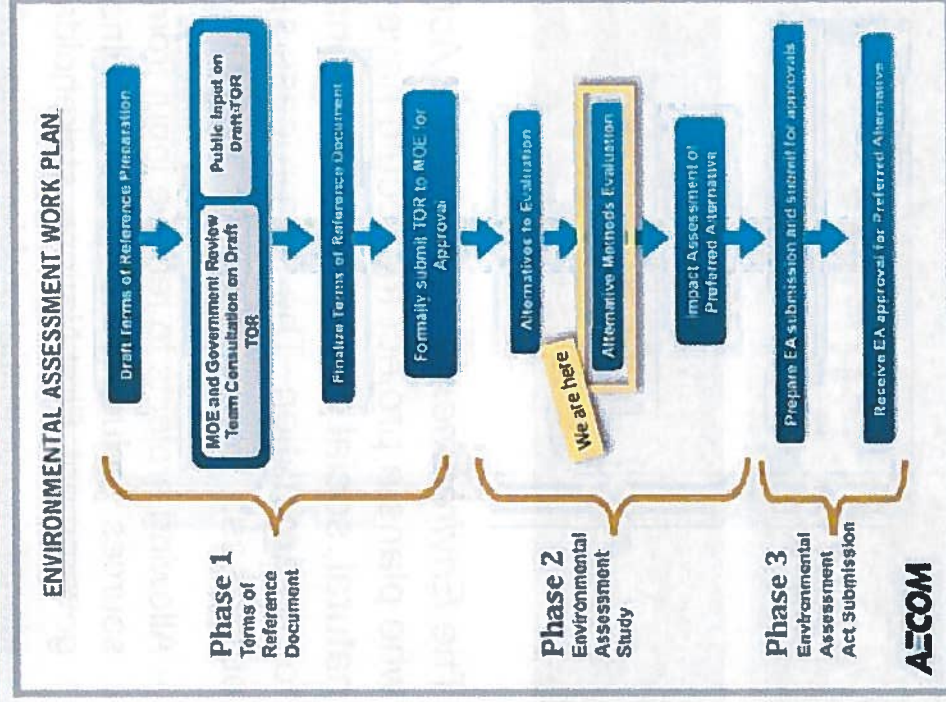
What is an EA?

Purpose = “to protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province”.

- The *Environmental Assessment Act*, 1990 requires anyone who plans a project that could have a significant effect on the natural, social or economic environment to present the project for examination. The EA process serves several important purposes:
 - Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, First Nations, stakeholders and the public.
 - Identifying potential problems prior to construction
 - Promoting good environmental planning practices
 - Improving community acceptance
 - Better protecting the environment

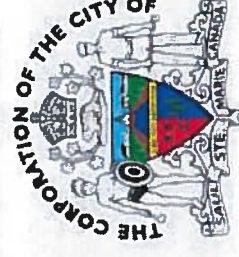


The EA Process



Consultation on the ToR and alternative ways to manage waste ("Alternatives to") included:

- Newsletters
- Public Input Sessions and meetings with First Nations and other stakeholders in the summer/fall of 2007
- Public Information Center and meetings with First Nations and other stakeholders in the summer of 2010





Phase 2 - “Alternatives To” - Conclusion

The preferred long-term approach to managing waste in SSM is:

- Increased 3Rs (Reduce/Reuse/Recycle)
- Landfilling residual waste

Why?

- Can comply with regulations and policies
- City is experienced with these waste management initiatives
- Flexible to changes in the waste stream (eg. population, waste generation, diversion)
- Can accept most residual waste from a Waste-to-Energy facility
- Cost efficient

The EA will now focus on identifying and evaluating alternative methods of landfilling waste (ie. alternative locations and designs)





Alternative Methods of Landfilling

Common to Both

- Capacity required = 2.3 million tonnes
- Leachate and landfill gas management to be provided

Expansion

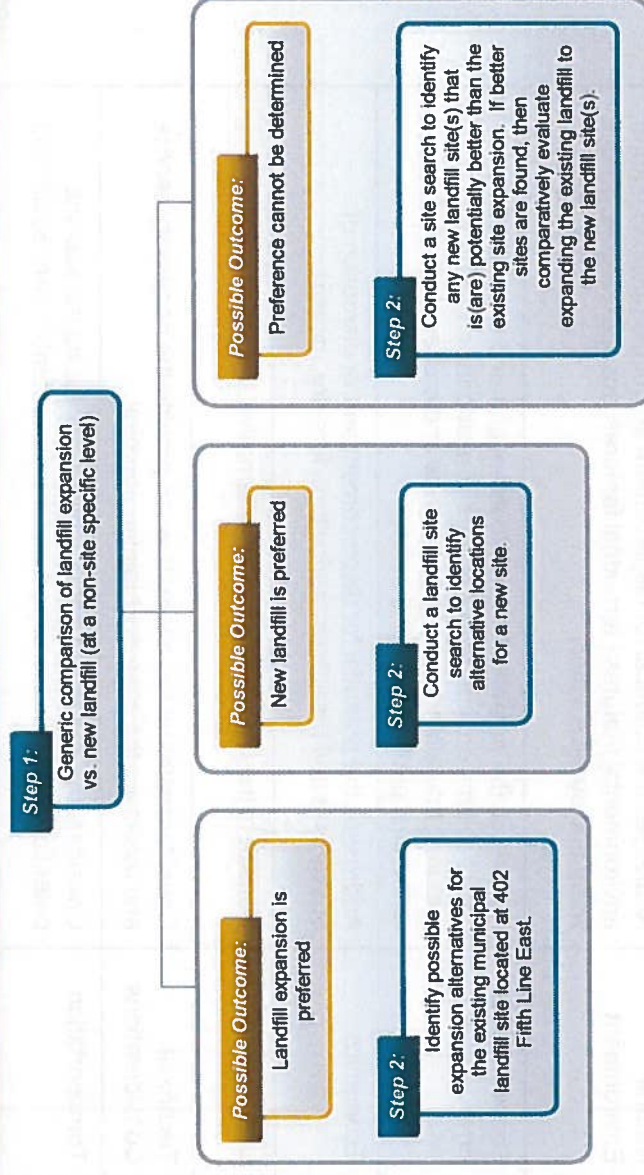
- Horizontal and/or vertical expansion and/or landfill mining
- Likely overlap a portion of an existing disposal footprint
- Site area likely less than 50 Ha

New Site

- Minimum site area required = 50Ha
- Continued maintenance and monitoring of closed site



Evaluation of Alternative Methods



The Alternative Methods evaluation is completed in a two-step process.

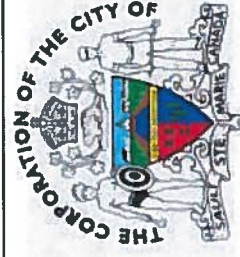


Evaluation Criteria Groups

Criterion	Definition
Natural Environment	Addresses the potential for displacement and/or disruption of natural environmental features (terrestrial features, aquatic features, ground water and surface water)
Social Cultural Environment	Addresses the potential for displacement and/or disruption of social/cultural environmental features (residents, community features, future land use plans, heritage and archaeological resources, public health and safety)
Economics	Addresses the potential for displacement and/or disruption of businesses and resources (agriculture, forestry, mining)
Cost	Considers the lifecycle cost of the alternative.
Technical Considerations	Considers whether the alternative can provide the necessary service and assesses the ease of obtaining approval.
Transportation	Considers the impacts of traffic volumes accessing the site and potential impacts to the airport and the movement of farm equipment.

Evaluation of Alternatives

Criterion	Expand an Existing Site	Develop a New Landfill Site
Natural Environment	Less potential to displace terrestrial and aquatic features based on smaller land area required.	Greater potential to displace terrestrial and aquatic features based on larger land area required.
Social Cultural Environment	Less potential to displace residents, community features and heritage/archaeological resources based on smaller land area required. Mutual adaptation including impact management has been occurring over the operating life of the existing landfill.	Greater potential to displace residents, community features and heritage/archaeological resources based on larger land area required. Would likely be disrupting a new community and some disruption would likely continue in the vicinity of the existing site.
Economics	Less potential to displace businesses and resources based on smaller land area required. Mutual adaptation including impact management has been occurring over the operating life of the existing landfill.	Greater potential to displace businesses and resources based on larger land area required.
Cost	Likely lower (existing infrastructure, monitoring systems, site knowledge, approvals, property)	Likely higher
Technical Considerations	Likely lower level of effort and fewer challenges to obtain approval.	Need to establish a high level of knowledge and understanding of the site.
Transportation	No significant differences.	No significant differences.





Preliminary Preferred Method

- On the basis of the **preliminary** evaluation, the preferred method of landfilling waste = expansion of an existing site.
- Key Advantages
 - Likely less potential for displacement and disruption
 - Only one landfill site to manage and maintain
 - Cost effective
 - Community adaptation
 - Likely fewer challenges in gaining approvals



Next Steps

- Solicit community and stakeholder input on the preliminary preferred alternative – do you agree/disagree – why?
- Solicit input on the evaluation criteria to be used for Step 2 – comparing site specific options
- Re-assess (if needed) and finalize the Step 1 evaluation based on input received
- Announce the preferred Step 1 - Alternative Method
- Continue with Step 2 – comparing site specific options
- Continue to investigate ways to improve waste diversion





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Contact Us

Your input on this project is important to us!

If you would like further information or to send comments or questions please contact us:

Mr. Rick Talvitie, P.Eng

Project Manager

AECOM

523 Wellington Street East,

Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612

Fax: 705-942-3642

Email: rick.talvitie@aecom.com

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To subscribe to the Project Newsletter, please email Nancy Maahs at

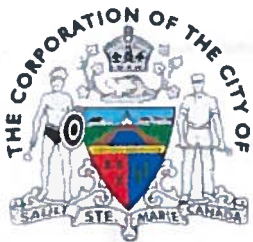
Nancy.maahs@aecom.com



THE CITY OF SAULT STE. MARIE

PUBLIC INPUT SESSION

PARTICIPANT WORKBOOK



SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

Tuesday April 19, 2011



THE CITY OF SAULT STE. MARIE PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

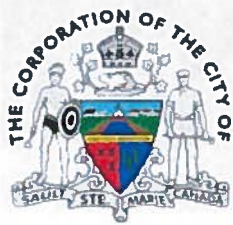
AGENDA

6:30 - 6:40 pm	Take attendance
6:40– 7:10 pm	Consultant presentation
7:10 – 7:30 pm	Question and answer period
7:30 – 7:45 pm	Break
7:45 – 8:45 pm	Break out into working groups and complete workbooks/questionnaires
8:45 – 9:00 pm	Wrap-up / summary

* * * * *

This workbook is intended to be read in combination with the
Alternative Methods - Step 1 Report
(Landfill Expansion versus Development of a New Landfill Site)
DRAFT Working Paper.

The report can be viewed on the City's website
[http://www.city.sault-ste-
marie.on.ca/Open_Page.aspx?ID=639&deptid=1](http://www.city.sault-ste-marie.on.ca/Open_Page.aspx?ID=639&deptid=1)



THE CITY OF SAULT STE. MARIE PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

Introduction

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date, we have completed a thorough review of different ways to manage waste including increased waste diversion, incineration/high heat processes, landfill, export of waste outside the service area, and “do-nothing”. The City has decided to pursue a combination of increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.

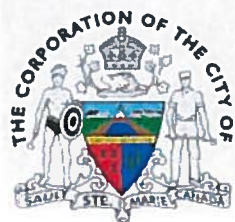
The next phase in the EA Study is to find an environmentally suitable location for the development of additional landfill capacity. Generally, there are two ways to develop additional landfill capacity – site a new landfill or expand an existing landfill. So our first step is to compare the advantages and disadvantages of these two landfill development alternatives.

A preliminary evaluation of these two alternatives has been completed by the project team. You can review this preliminary evaluation in the document Alternative Methods – Step 1 (Landfill Expansion Versus Development of a New Landfill Site) Draft Working Paper that is posted on the City of Sault Ste. Marie’s website.

We are now seeking your input on this preliminary evaluation. We are also seeking your input on the criteria to be used in the next step of the project which will involve the comparison of specific sites.

Please complete this workbook to provide us with your input on this important project.





THE CITY OF SAULT STE. MARIE

PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

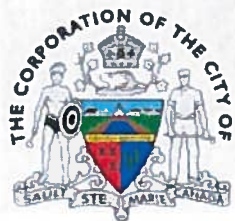
3. The next step of the EA involves comparing specific sites. The following lists the proposed criteria for the evaluation of alternative methods. Specific indicators or ways to evaluate the alternatives under the criteria are also listed.

We are looking for your comments on whether anything has been missed or whether changes should be made.

Criteria Group /Criteria	Indicators	Anything Missing? Any Suggested Changes?
NATURAL ENVIRONMENT		
Compare potential for displacement or disruption¹ of terrestrial features	<ul style="list-style-type: none"> Area and significance of terrestrial features on site that would be displaced. 	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
	<ul style="list-style-type: none"> Area and significance of terrestrial features off-site that may experience disruption effects during operation. 	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
	<ul style="list-style-type: none"> Area and significance of terrestrial features along haul route that might experience disruption effects during operation. 	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

¹ Disruption includes consideration of nuisance effects.





THE CITY OF SAULT STE. MARIE

PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

Criteria Group /Criteria	Indicators	Anything Missing? Any Suggested Changes?
Compare potential for displacement or disruption to community features (e.g. parks, recreational facilities)	<ul style="list-style-type: none"> Number and type of community features on-site that would be displaced. Number and type of community features off-site that may experience disruption effects (e.g. noise, dust, odour) during operation. Number and type of community features along the haul route that might experience disruption effects during operation. 	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Compare potential for impact on future land use plans	<ul style="list-style-type: none"> Area and designation of land to be displaced on-site. Area and designation of land to be disrupted off-site. Area and designation of land to be disrupted along haul route Change in land use character compared to existing designations. 	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>



THE CITY OF SAULT STE. MARIE PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

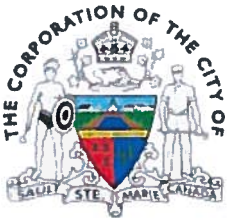
Criteria Group /Criteria	Indicators	Anything Missing? Any Suggested Changes?
ECONOMICS		
Compare potential for displacement or disruption to existing businesses	<ul style="list-style-type: none"> • Number, type and sensitivity of businesses on-site that would be displaced. • Number, type and sensitivity of businesses off-site that might experience disruption effects during operation. • Number, type and sensitivity of businesses along the haul route that might experience disruption effects during operation. 	



THE CITY OF SAULT STE. MARIE PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

Criteria Group /Criteria	Indicators	Anything Missing? Any Suggested Changes?
TECHNICAL CONSIDERATIONS		
Compare potential for providing necessary service	<p>Ease of site development.</p> <p>Effects on existing /proposed landfill infrastructure.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
TRANSPORTATION		
Compare potential for affects on airports	Distance from Sault Ste. Marie airport.	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Compare potential for affects on traffic volumes	<p>Annual truck kilometres travelled and character of roadway (i.e. single lane one direction, multi-lane).</p> <p>Annual number of trucks travelling through intersections.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>



THE CITY OF SAULT STE. MARIE PUBLIC INPUT SESSION WORKBOOK

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

PLEASE RETURN completed workbooks by May 20, 2011

To: Mr. Rick Talvitie, P.Eng

Project Manager

AECOM

523 Wellington Street East,

Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612

Fax: 705-942-3642

Email: rick.talvitie@aecom.com

Please add me to the mailing list:

Name:

Address:

Phone:

Email:



THE CITY OF SAULT STE. MARIE

APRIL 19, 2011 PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

COMMENT SHEET

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date, we have completed a thorough review of different ways to manage waste including increased waste diversion, incineration/high heat processes, landfill, export of waste outside the service area, and “do-nothing”. The City has decided to pursue a combination of increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.

The next phase in the EA Study is to find an environmentally suitable location for the development of additional landfill capacity. Generally, there are two ways to develop additional landfill capacity – site a new landfill or expand an existing landfill. So our first step is to compare the advantages and disadvantages of these two landfill development alternatives.

A preliminary evaluation of these two alternatives has been completed by the project team. You can review this preliminary evaluation in the document **Alternative Methods – Step 1 (Landfill Expansion Versus Development of a New Landfill Site) Draft Working Paper** that is posted on the City of Sault Ste. Marie's website.

We are now seeking your input on this preliminary evaluation. We are also seeking your input on the criteria to be used in the next step of the project which will involve the comparison of specific sites. We have developed an online survey and hardcopy workbook to assist in obtaining your feedback. However, if you are unable to complete the full workbook or online survey we would appreciate any comments that you may have.

Please provide your comments on the back of this comment sheet or submit them by email. Please include “**City of SSM Waste Management EA – Comments**” in the subject line of your email message.

PLEASE RETURN completed comment sheets by May 20, 2011

**To: Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com**

Comments

Please add me to the mailing list:

Name: _____

Address: _____

Phone: _____

Email: _____



AECOM

Appendix G

**March 6, 2012 Public Input
Session**



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date significant progress has been made.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and **the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.** The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the entire residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

In April, 2011 a Public Input Session was held to present the non-site specific landfill alternatives being considered. **The evaluation and response from consultation concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted that an expansion requires less land, displaces fewer people and/or social/natural features, disrupts fewer people (ie. one site versus two sites creating nuisance impacts), costs less, typically encounters fewer challenges in gaining technical approvals, and reduces the number of facilities the City must manage.

CURRENT ACTIVITIES

Presently the project team is focusing on **the best approach to expand the existing landfill site at 402 Fifth Line East in the City of Sault Ste. Marie.** Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. Options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate previously disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of the expansion options has been completed by the project team. **We are now seeking input from the Community, government agencies, stakeholders, and First Nations regarding the evaluation criteria considered and the preliminary findings.**

PUBLIC INPUT SESSION

If you are interested in discussing the expansion options, the criteria used in the evaluation and the preliminary findings, we encourage you to attend the upcoming public input session!

We will provide you with background information, update you on the City's achievements in increasing waste diversion and discuss, with you, the expansion options. **The principle objective of the public consultation is to identify a preferred expansion strategy for the existing landfill site.**

The expansion options, the evaluation criteria, and the project team's preliminary evaluation are also available on the City's website (www.cityssm.on.ca - View City Hall Bulletins – Public Input Session – Solid Waste Management) in a working paper prepared for this session titled "Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options). This working paper may also be viewed at the locations noted below commencing on February 21, 2012.

AECOM Canada Ltd.	523 Wellington Street
Civic Centre Engineering and Planning	99 Foster Drive, 5th Flr.
Public Works and Transportation	128 Sackville Road
Main Library	50 East Street
Churchill Branch Library	301 Lake Street
Korah Branch Library	496 Second Line
Township of Prince Municipal Office	3042 Second Line West
Batchewana First Nation	236 Frontenac Street
Garden River First Nation	7 Shingwauk Street
Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East

CONTACT US

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Ms. Catherine Taddo, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5380
Fax: (705) 541-7165
Email: c.taddo@cityssm.on.ca

YOU'RE INVITED!

Date: Tuesday, March 6, 2012
Location: Civic Centre – Russ Ramsay Room
Time: 3:30PM to 7:30PM
Refreshments to be provided.

If you cannot attend the public input session in person, we still want to hear from you! Just go to the City's website www.cityssm.on.ca - View City Hall Bulletins – Public Input Session – Solid Waste Management review the Alternatives Method – Step 2 Report and fill out our online questionnaire or comment sheet. A link to the online questionnaire is provided on the City's website.



THE CITY OF SAULT STE. MARIE

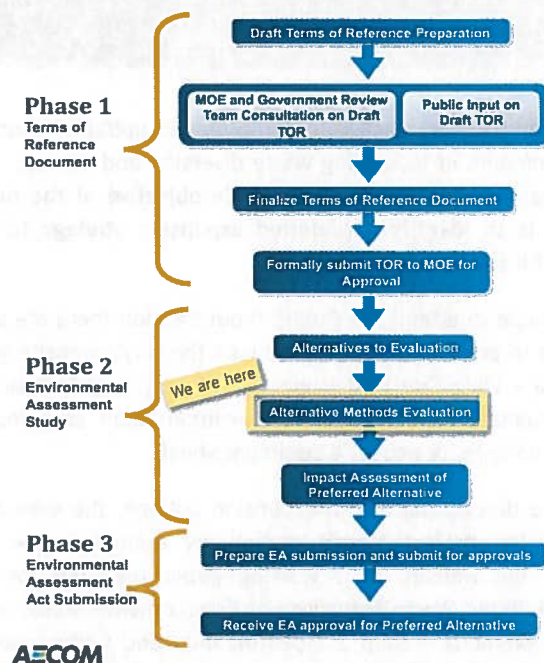
NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL ASSESSMENT (EA) PROCESS

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. There are several phases and tasks involved in completing an EA as outlined in the graphic below.

ENVIRONMENTAL ASSESSMENT WORK PLAN



The City is currently mid-way through Phase 2 of the EA Process and is interested in obtaining your input related to the current activities.

BACKGROUND

Phase 1 of the EA process included public consultation and culminated with the Ministry of Environments approval of the project Terms of Reference (ToR) in 2005. The ToR provides a framework or roadmap for completing the EA and summarizes the tasks and activities to be undertaken by the proponent.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the **preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.** The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the entire residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

The flexibility of the preferred alternative is particularly important given the City's contract with The Elementa Group (an energy-from-waste service provider) for the annual processing of at least 12,500 metric tonnes of municipal solid waste. Elementa is currently negotiating an energy purchase agreement and intends to construct and operate a new 35,000 tonne-per-year energy-from-waste (EFW) plant in Sault Ste. Marie. Any waste directed to the EFW facility in the future will reduce the quantity of residual waste requiring disposal in a landfill.

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require Environmental Assessment (EA) Act approval, the EA study is now focusing on alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step in this phase consisted of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. To identify a preferred approach to landfilling waste, the alternatives were compared using the following six criteria groups:

- | | |
|---------------------------------|----------------------------------|
| 1. Natural environment; | 4. Cost; |
| 2. Social-Cultural environment; | 5. Technical considerations; and |
| 3. Economic environment; | 6. Transportation. |

A Public Input Session was held in April, 2011 to present the landfill alternatives being considered. **The evaluation and response from consultation concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted that an expansion requires less land, displaces fewer people and/or social/natural features, disrupts fewer people (ie. one site versus two sites creating nuisance impacts), costs less, typically encounters fewer challenges in gaining technical approvals, and reduces the number of facilities the City must manage.



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

CURRENT ACTIVITIES

The second step in the Alternative Methods task focuses on the best approach to expand the existing landfill site at 402 Fifth Line East in the City of Sault Ste. Marie. Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand. Options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate previously disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies.

A preliminary evaluation of the expansion options has been completed by the project team. We are now seeking input from the Community, government agencies, stakeholders, and First Nations regarding the evaluation criteria considered and the preliminary findings.

CONTACT US

You may also contact the Consultant Project Manager or the City's Land Development and Environmental Engineer by email, mail or telephone if you have questions or would like additional information.

Mr. Rick Talvitie, P.Eng

Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612

Fax: 705-942-3642

Email: rick.talvitie@aecom.com

Ms. Catherine Taddo, P.Eng.

Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1

Phone: (705) 759-5380

Fax: (705) 541-7165

Email: c.taddo@cityssm.on.ca

HOW CAN I PROVIDE INPUT?

If you are interested in discussing the expansion options, the criteria used in the evaluation and the preliminary findings we encourage you to attend the upcoming public input session!

YOU'RE INVITED!

Date: Tuesday, March 6, 2012

Location: Civic Centre – 99 Foster Drive
Russ Ramsay Room

Time: 3:30PM to 7:30PM

*Refreshments to
be provided.*

We will provide you with background information update you on the City's achievements in increasing waste diversion and discuss, with you, the expansion options. **The principle objective of the public consultation is to identify a preferred expansion strategy for the existing landfill site.**

If you are unable to attend the Public Input Session there are other opportunities to provide input. Please visit the City's website www.cityssm.on.ca - View City Hall Bulletins – Public Input Session – Solid Waste Management to obtain further information, complete an online questionnaire, or access a comment sheet.

In addition, a description of the expansion options, the evaluation criteria, and the project team's preliminary evaluation are also available on the website in a working paper prepared for this session titled "Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)". This working paper may also be viewed at the locations noted below commencing on February 21, 2012.

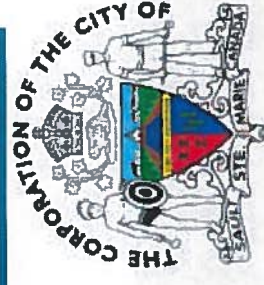
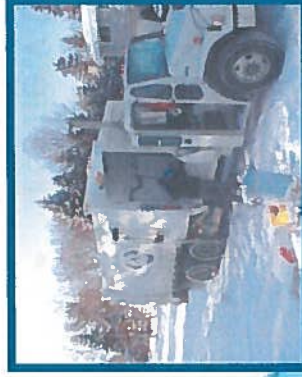
AECOM Canada Ltd.	523 Wellington Street
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Metis Nation of Ontario Office	26 Queen Street East
Missanabie Cree Office	559 Queen Street East



DILLON
CONSULTING

Solid Waste Management Environmental Assessment

WELCOME to the
Public Input Session



March, 2012

What Should I Do?

- Record your name and contact information on the sign-in sheet.
- Review the handouts and presentation boards with the project team.
- Ask questions and offer your opinions and suggestions.
- Record your comments and opinions on a comment sheet or send us an email or complete a questionnaire (available at this session or online through the City's website on Waste Management EA webpage).

Your input is important to us!



Public Input Session Objectives

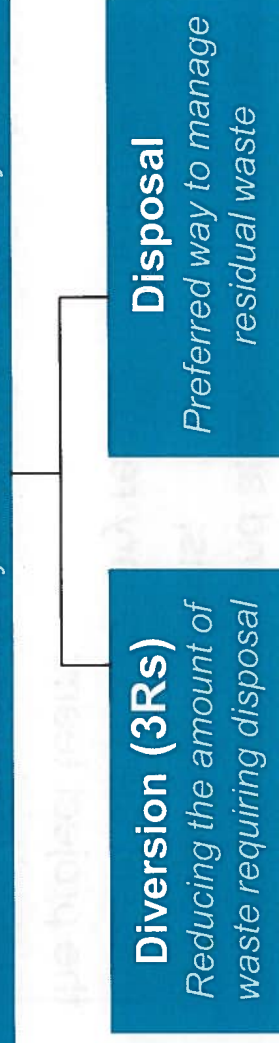
- Provide you with an update on waste management planning activities and results;
- Review project need;
- Provide an overview of the Environmental Assessment process and where we are at in the process;
- Present the criteria and approach used in the evaluation of site expansion options;
- Present the preliminary results of the evaluation completed by the project team;
- **Solicit input on the evaluation and preliminary findings;**
- Identify the next steps in the EA process; and
- Answer your questions.



Waste Management Planning

Waste Management Planning

To determine the preferred way to meet the waste management needs of the community over the next 25 to 40 years



- In September 2000, the City initiated a Solid Waste Management Plan.
- The Plan addressed waste diversion opportunities and waste disposal needs.
- City initially focused attention on diversion (i.e. 3Rs - reduce/ reuse/ recycle) with significant success.



Waste Diversion Opportunities

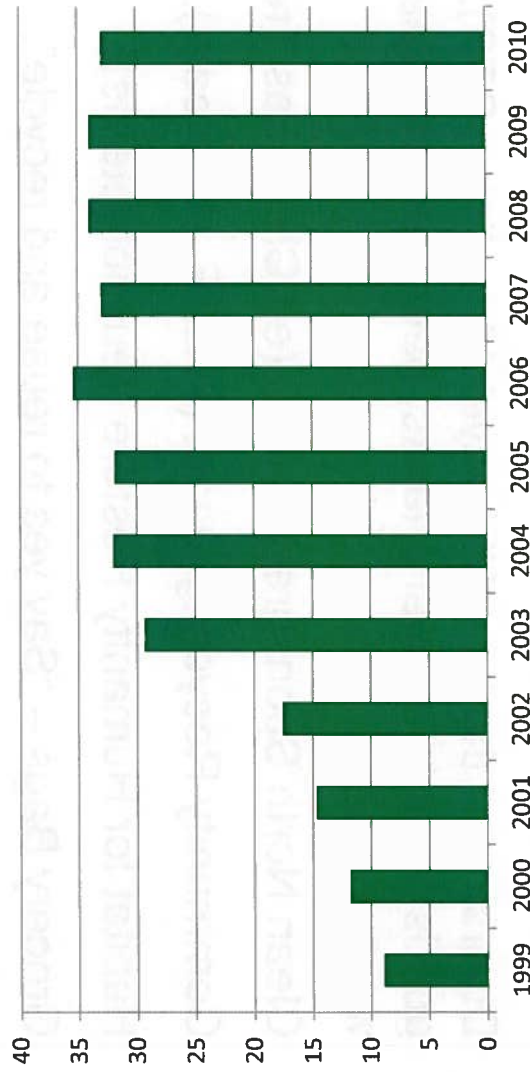
- Curbside blue/yellow box collection program.
- Diversion at the Landfill (recyclables, tires (OTS), white goods, metals, propane tanks, batteries, and clean wood waste/brush).
- Clean North Sponsored Events (eg.Christmas Trees).
- Community Recycling Depot (WEEE, styrofoam).
- Habitat for Humanity Restore (reusable items).
- Grocery Bags – “Say yes to reuse and recycle”.
- Discount for refillable coffee cups at City venues.
- Deposit/Return (alcohol containers returned to the Beer Store).
- Distribution of Backyard Composters.
- Other private sector businesses.





Accomplishments

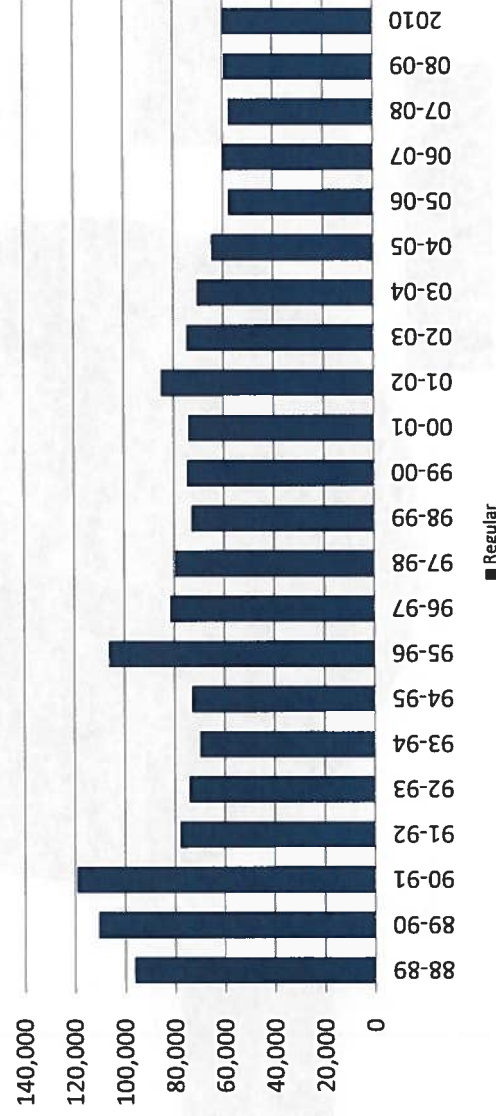
Residential Waste Diversion Rate (1999 to 2010)
(Percentage %)



**Increased residential diversion rate
from 9% in 1999 to 33% to 35% in
recent years**

Accomplishments

Annual Waste Quantities (1989 to 2010)
(Tonnes)

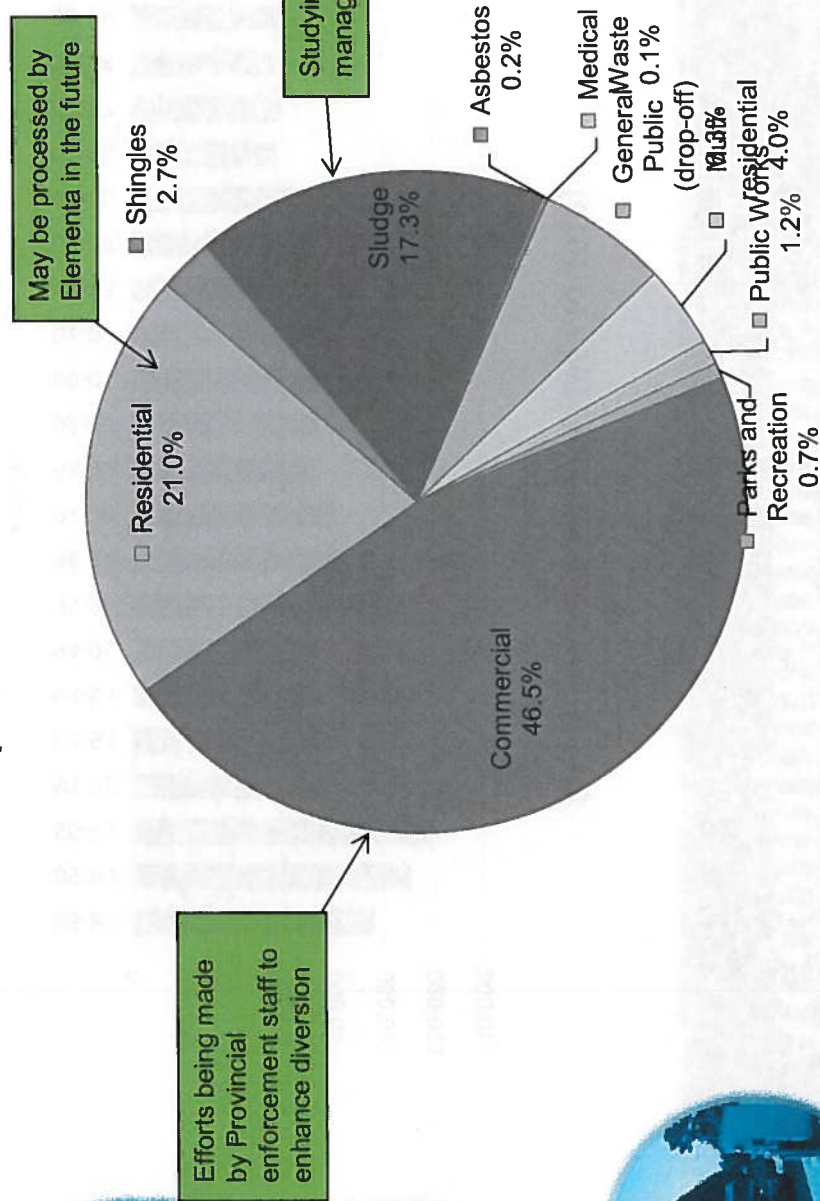


Reduced total waste disposed from more than 70,000 tonnes between 1989 to 2004 (max. of 119,000 tonnes) to less than 60,000 tonnes over the last 5 years!



Other Diversion Initiatives

2010 Landfilled Waste Types (Total = 59,969 tonnes)



Project Need

- The estimated remaining service life of the existing landfill is 7 to 10 years depending on future population changes, in-situ subsidence and waste generation, diversion and disposal rates. The low end of this range is used for planning purposes.
- Despite significant success in enhancing waste diversion, additional disposal capacity is required.
- The Environmental Assessment process provides a framework to identify the preferred way to meet long term disposal needs within the service area in a transparent and traceable manner.





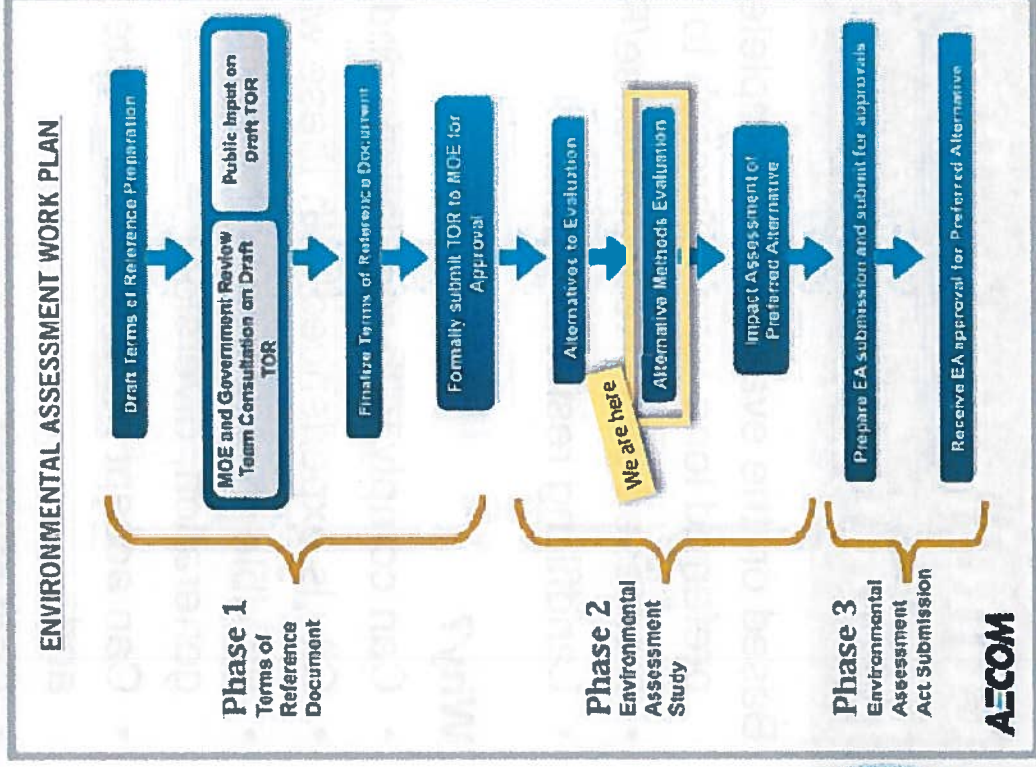
What is an EA?

Purpose = *“to protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province”*.

- The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. The EA process serves several important purposes:
 - Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, First Nations, stakeholders and the public.
 - Identifying potential problems prior to construction
 - Promoting good environmental planning practices
 - Improving community acceptance
 - Better protecting the environment



The EA Process



Consultation to date has included:

- Newsletters
- Public Input Sessions and meetings with First Nations and other stakeholders in the summer/fall of 2007
- Public Information Center and meetings with First Nations and other stakeholders in the summer of 2010
- Public Input Session and correspondence with First Nations and other stakeholders in the spring of 2011



Conclusions - Preferred Waste Management Strategy

Based on the evaluations completed and public input received the preferred long-term approach to managing waste in SSM is:

- Increased 3Rs (Reduce/Reuse/Recycle); and
- Landfilling residual waste.

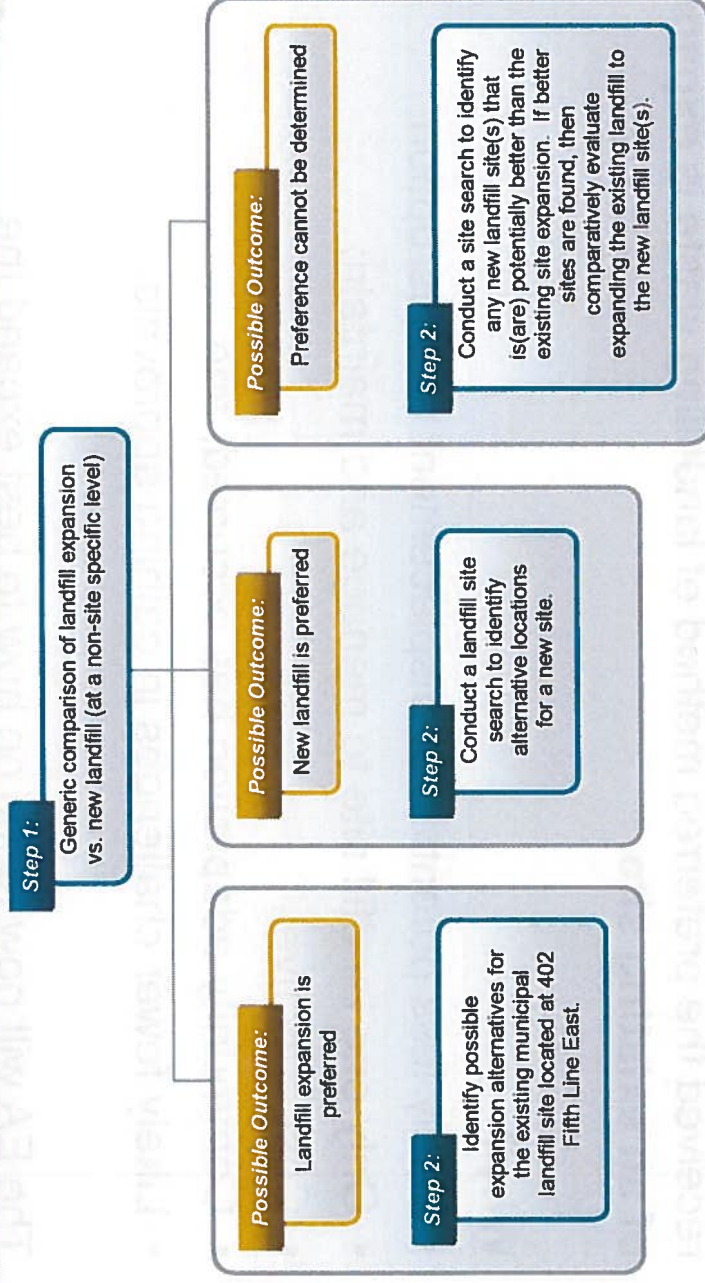
Why?

- Can comply with regulations and policies;
- City is experienced with these waste management initiatives;
- Flexible to changes in the waste stream (e.g. population, waste generation, diversion);
- Can accept most residual waste from a Waste-to-Energy facility; and
- Cost efficient.

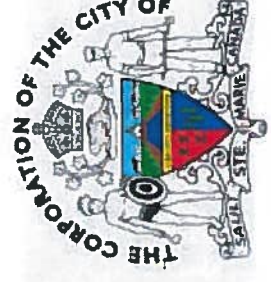
The next step of the EA will focus on identifying and evaluating alternative methods of landfilling waste (i.e. alternative locations and designs).



Evaluation of Alternative Landfilling Methods



The Alternative Methods evaluation is completed in a two-step process.



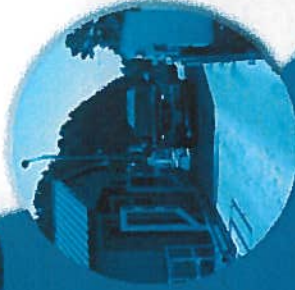
Conclusions - Preferred Method of Landfilling

Based on the evaluations completed and the public input received the preferred method of landfilling waste is **expansion of an existing site**.

Why?

- Likely less potential for displacement and disruption;
- Only one landfill site to manage and maintain;
- Cost effective;
- Community adaptation has occurred; and
- Likely fewer challenges in gaining approvals.

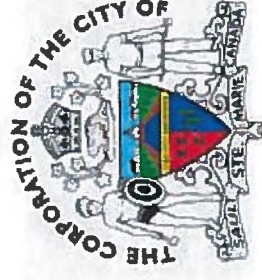
The EA will now focus on how to best expand the existing site.





Evaluation of Expansion Options

- Expansion options have been developed that make the best use of the existing site characteristics and the area available to expand.
- Options considered include horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate existing disposed waste and cover material, recover earthen material or “fines” and return the waste to the disposal footprint) or a combination of these methodologies.
- The evaluation has been completed using a two-step approach:
 - Step 1 – identify a preferred expansion area and shape;
 - Step 2 – assess the pros and cons of incorporating landfill mining.





Overview of Expansion Options

Option 1 – West Expansion

- Geometry - neat extension of existing site – landfill mass to be approximately 2m higher relative to existing site - most efficient geometry.
- Average excavation depth in west expansion area = 18m.
- Expansion area to be lined and horizontal collector installed at west limit to replace PW's.
- Includes drainage layer over existing waste in overlap area to promote drainage to the newly lined area.
- Enhanced compaction required (30%) to meet target capacity (2.3M tonnes).
- Need to replace/relocate some of the core infrastructure (e.g. public drop-off, maintenance garage, scales and scale house).
- Adequate soil generated for daily, interim final cover.





Overview of Expansion Options

Option 2 – North and West Expansion A

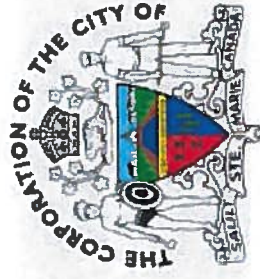
- Geometry – somewhat awkward – landfill mass to be approximately 4m higher relative to existing site.
- Average excavation depth in west expansion area = 18m.
- Expansion area to be lined and horizontal collector installed at west limit to replace PW's.
- Includes liner over existing waste in areas of overlap.
- Meets target capacity (2.3M tonnes) at current waste densities.
- Most core infrastructure (e.g. public drop-off, maintenance garage, scales and scale house) maintained.
- Adequate soil generated for daily, interim and final cover.



Overview of Expansion Options

Option 3 – North and West Expansion B

- Geometry – enhanced relative to Option 2 – landfill mass to be approximately 4m higher relative to existing site.
- Average excavation depth in west expansion area = 11m.
- Expansion area to be lined and horizontal collector installed at west limit to replace PW's.
- Includes liner over existing waste in areas of overlap.
- Meets target capacity (2.3M tonnes) at current waste densities.
- Need to replace/relocate some of the core infrastructure (e.g. public drop-off, maintenance garage, scales and scale house)
- Adequate soil generated for daily, interim and final cover.





Overview of Expansion Options

Option 4 – West and South Expansion

- Geometry – two new distinct landforms - similar in height to existing disposal site.
- Average excavation depth in west expansion area = 18m.
- Expansion area to be lined and horizontal collector installed at west limit (Note: existing PW's could be maintained if desired).
- Enhanced compaction required (30%) to meet target capacity (2.3M tonnes).
- Impacts Elementa pilot facility and landfill gas blower/flare station.
- Adequate soil generated for daily, interim and final cover.





Evaluation Criteria Groups

Criterion	Definition
Natural Environment	Addresses the potential for displacement and/or disruption of natural environmental features (terrestrial features, aquatic features, ground water and surface water)
Social Cultural Environment	Addresses the potential for displacement and/or disruption of social/cultural environmental features (residents, community features, future land use plans, heritage and archaeological resources, public health and safety)
Economics	Addresses the potential for displacement and/or disruption of existing businesses and resources (agriculture, forestry, mining)
Cost	Considers the lifecycle cost of the alternative.
Technical Considerations	Considers technical aspects of each option including impacts on existing site infrastructure and ease of site development.
Transportation	Considers the impacts of traffic volumes accessing the site and potential impacts to the airport and the movement of farm equipment.



Evaluation of Expansion Options - Footprint Configuration

Criteria Group	Option 1 - West Expansion	Option 2 – West and North Expansion A	Option 3 – West and North Expansion B	Option 4 – West and South Expansion
Natural Environment	Second	First	First	Third
Social-Cultural Environment	First	First	First	Second
Economics	First	First	First	Second
Cost	First	First	Third	Second
Technical Considerations	Third	Second	First	Fourth
Transportation	Equal	Equal	Equal	Equal
OVERALL	THIRD	SECOND	FIRST	FOURTH

- Although higher in cost, **Option 3** is ranked first by the project team based on enhanced groundwater controls, ease of site development and improved storm water management relative to Option 2.



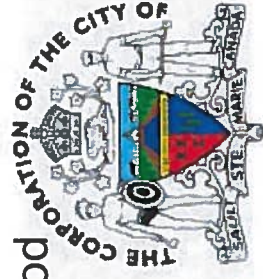
What are your thoughts and opinions?



Overview of Expansion Options

Option 3 – North and West Expansion B + Mining

- Consideration was given to adding a landfill mining component to the preliminary preferred expansion footprint.
- Mining involves excavation of previously disposed waste and cover material. Mined waste is fed through screens which separates coarse waste from fine materials. Recyclables are separated and sent for processing, remaining residual waste disposed of in the disposal site and fines (primarily sand) are stockpiled for use as cover.
- Mining to be completed in the western portion of the existing disposal footprint (i.e. west of the natural groundwater divide).
- Enhanced mitigation of western ground water flow.
- Potential for increased odours during mining period (estimated to be two years).

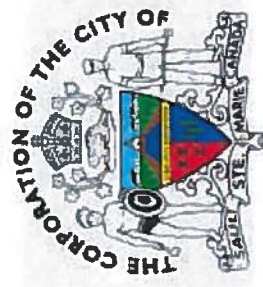




Evaluation of Expansion Options - With or Without Landfill Mining

Criteria Group	Option 3 – West and North Expansion B	Option 3 with Landfill Mining
Natural Environment	Second	First
Social-Cultural Environment	First	Second
Economics	First	Second
Cost	First	Second
Technical Considerations	First	Second
Transportation	Equal	Equal
OVERALL	SECOND	FIRST

- **Option 3 with landfill mining** is ranked higher overall based on the projected long term improvements to ground water quality in comparison to the shorter term nuisance impacts (e.g. odour) associated with its implementation



What are your thoughts and opinions?



Preliminary Preferred Option

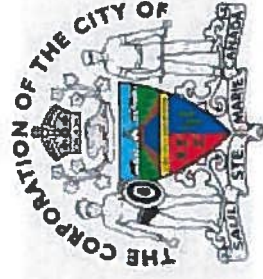
- On the basis of the **preliminary** evaluation, the preliminary preferred expansion option = Option 3 - North and West Expansion B with Landfill Mining.
- Key advantages relative to other options include:
 - Site development (i.e. geometry and storm water management) enhanced relative to Options 2 and 4.
 - Reduced average excavation depth in west expansion area (i.e. 11m).
 - Includes a liner beneath the waste within the western portion of the existing disposal footprint enhancing long term ground water quality.
 - Includes a liner over existing waste in areas of overlap to further enhance ground water quality.
 - Meets target capacity at current estimated waste densities.





Next Steps

- Solicit governmental, community First Nation and stakeholder input on the preliminary preferred expansion option – do you agree/disagree – why?
- Re-assess (if needed) and finalize the Step 2 evaluation based on input received
- Announce the preferred Step 2 - Alternative Method (i.e. preferred expansion option)
- Initiate a detailed impact assessment for the preferred option
- Continue to investigate ways to improve waste diversion through 3Rs initiatives





DILLON
CONSULTING



Contact Us

Your input on this project is important to us!

If you would like further information or to send comments or questions please contact us:

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Project Manager

AECOM

523 Wellington Street East,

Sault Ste. Marie, ON, P6A 2M4

Phone: 705-942-2612

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Land Development and Environmental Engineer

City of Sault Ste. Marie

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Sault Ste. Marie, ON, P6A 5N1

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To subscribe to the Project Newsletter, please email Nancy Maahs at
Nancy.maahs@aecom.com



THE CITY OF SAULT STE. MARIE

MARCH 6, 2012 PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

COMMENT SHEET

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date, we have completed a thorough review of different ways to manage waste including increased waste diversion, incineration/high heat processes, landfill, export of waste outside the service area, and "do-nothing". The City decided to pursue a combination of increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.

The next phase in the EA Study involved finding an environmentally suitable location for the development of additional landfill capacity and we looked at developing a new landfill or expanding an existing landfill. The evaluation and input received through the spring 2011 public consultation activities concluded that an expansion of an existing landfill is generally preferred.

Now we are focusing on the best way to expand the existing landfill site at 402 Fifth Line East in the City of Sault Ste. Marie. We looked at expanding the landfill by increasing the footprint area, and/or increasing the height of the landfill, and/or mining some of the existing waste.

We have completed a preliminary evaluation of the expansion options which can be reviewed in the working paper **Solid Waste Management Environmental Assessment - Alternative Methods – Step 2 (Identification and Comparison of Expansion Options)** that is posted on the City of Sault Ste. Marie's website. You are also encouraged to view the **Project Newsletter** and/or the March 6th **Public Input Session displays** which are also available on the City's website.

We want your input! You can provide comments in one of three ways:

1. Using this comment sheet;
2. Sending the project team an email (see email address below) - please include "**City of SSM Waste Management EA – Comments**" in the subject line of your email message; or
3. Filling out the online survey available on the City's website.

PLEASE RETURN completed comment sheets by April 6, 2012

To: Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
Email: rick.talvitie@aecom.com

Comments

CONFIDENTIAL

Please add me to the mailing list:

Name: _____

Address: info@hugoboss.com

Phone : _____

Email: [REDACTED]



AECOM

Appendix H

**February 9, 2016 Public
Input Session**



THE CITY OF SAULT STE. MARIE

NOTICE OF PUBLIC INPUT SESSION

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

BACKGROUND

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date significant progress has been made.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste. The preferred alternative was presented at an Open House in June, 2010.

The study noted:

- landfills can be designed and operated to comply with regulations and policies;
- landfill gas can be collected and flared or recovered to generate electricity;
- landfills can manage the entire residual waste stream;
- landfills are flexible to changes in waste quality and quantities; and
- landfilling is cost effective.

In April, 2011 a Public Input Session was held to present the non-site specific landfill alternatives being considered. The evaluation, which considered responses from consultation, concluded that an expansion of an existing landfill is generally preferred over construction of a new site.

The study noted:

- an expansion requires less land;
- displaces fewer people and/or social/natural features;
- disrupts fewer people (i.e. one site versus two sites creating nuisance impacts);
- costs less;
- typically encounters fewer challenges in gaining technical approvals; and
- reduces the number of facilities the City must manage.

In March 2012 a Public Input Session was held to present the

preliminary preferred approach to expanding the existing landfill at 402 Fifth Line East in the City of Sault Ste. Marie. The evaluation, which considered responses from consultation, concluded that an expansion is best accommodated with a moderate increase in the height of the waste together with and expansion of the disposal footprint to the north and west. The preferred option also includes landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) in the western portion of the existing disposal footprint to enhance groundwater protection. All mined and expansion areas will include the construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and ultimately direct it to the City's sewage treatment plant for treatment.

CURRENT ACTIVITIES

Presently the project team is focusing on completing an impact assessment for the preferred expansion option. The impact assessment includes expertise from numerous disciplines and focusses on potential impacts to the natural and human environments associated with the construction and operation of the proposed expansion. Careful attention is given to best management practices to mitigate potential impacts.

We are now seeking input from the Community, government agencies, stakeholders, and First Nations regarding the results of our impact assessment work and the proposed mitigation measures.

PUBLIC INPUT SESSION

If you are interested in discussing the impact assessment work, we encourage you to attend the upcoming public open house! We will provide you with background information and discuss with you, the preferred site expansion option and the results of the impact assessment work.

CONTACT US

We also encourage you to contact the individuals noted below if you have any specific questions.

Mr. Rick Talvitie, P.Eng
Project Manager
AECOM
523 Wellington Street East,
Sault Ste. Marie, ON, P6A 2M4
Phone: 705-942-2612
Fax: 705-942-3642
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Ms. Catherine Taddo, P.Eng.
Land Development and Environmental Engineer
City of Sault Ste. Marie
P.O. Box 580
99 Foster Drive,
Sault Ste. Marie, ON, P6A 5N1
Phone: (705) 759-5380
Fax: (705) 541-7165
Email: c.taddo@cityssm.on.ca

YOU'RE INVITED!

Date: Tuesday February 9, 2016
Location: Civic Centre –
Russ Ramsay Room
Time: 3:30 pm to 7:30 pm

Refreshments to be provided.

If you cannot attend the public open house, we still want to hear from you! Just go to the project webpage (address provided below) to review the project reference material and fill out a comment sheet or simply send us an email (email addresses provided above). Project webpage address: saultstemarie.ca/SolidWasteEA



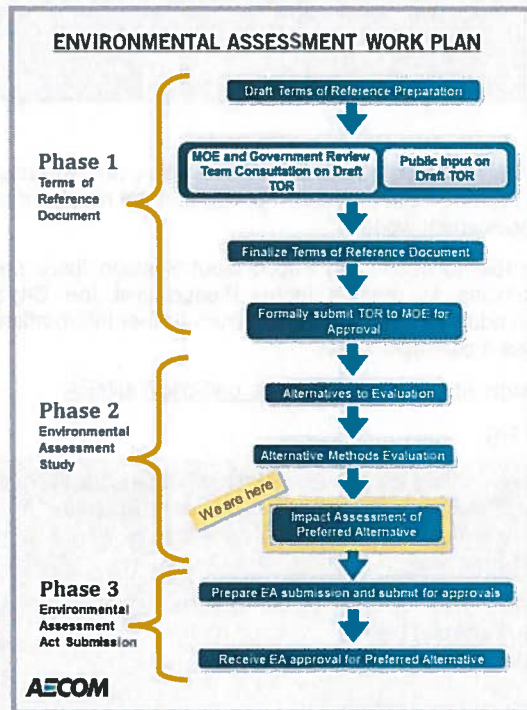
THE CITY OF SAULT STE. MARIE

JANUARY, 2016 NEWSLETTER

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

ENVIRONMENTAL ASSESSMENT (EA) PROCESS

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. There are several phases and tasks involved in completing an EA as outlined in the graphic below.



The City is finalizing Phase 2 of the EA Process and is currently preparing the EA submission. **We are interested in obtaining your input related to the current activities.**

BACKGROUND

Phase 1 of the EA process included public consultation and culminated with the Ministry of Environment and Climate Change's (MOECC) approval of the project Terms of Reference (ToR) in 2005. The ToR provides a framework or roadmap for completing the EA and summarizes the tasks and activities to be undertaken by the proponent.

Workshops and an Open House were held in the late spring of 2007 to present the waste management alternatives being considered. The input received was incorporated into the evaluation and the preferred waste management alternative was identified as increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste. The preferred alternative was presented at an Open House in June, 2010.

The study noted that landfills can be designed and operated to comply with regulations and policies, landfill gas can be collected and flared or recovered to generate electricity, landfills can manage the residual waste stream, landfills are flexible to changes in waste quality and quantities and landfilling is cost effective.

The City remains committed to investigating, implementing and supporting programs to increase waste diversion through 3Rs initiatives. Since the implementation of 3Rs initiatives does not require EA Act approval, the EA study turned its focus to alternative methods of landfilling residual waste. The key objective of this phase of the study is to find an environmentally suitable location for the development of additional landfill capacity.

The first step in this phase consisted of completing a non-site specific evaluation of developing a new landfill versus expanding an existing landfill. To identify a preferred approach to landfilling waste, the alternatives were compared using the following seven criteria groups:

- | | |
|--------------------------------|--|
| 1. Natural environment | 5. Capability of managing waste quality and quantity |
| 2. Social-cultural environment | 6. Proven technical capacity |
| 3. Economic environment | 7. Cost |
| 4. Flexibility of the system | |

A Public Input Session was held in April, 2011 to present the landfill alternatives being considered. **The evaluation and response from consultation concluded that an expansion of an existing landfill is generally preferred over construction of a new site.**

The study noted that an expansion requires less land, displaces fewer people and/or social/natural features, disrupts fewer people (i.e., one site versus two sites creating nuisance impacts), costs less, typically encounters fewer challenges in gaining technical approvals, and reduces the number of facilities the City must manage.

The second step in the Alternative Methods task focused on the best approach to expand the City's existing landfill site at 402 Fifth Line East by identifying and comparatively evaluating site expansion alternatives. Options considered included horizontal expansion (expand the extent of the disposal footprint), vertical expansion (increase the height of the disposal footprint), landfill mining (excavate previously disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) or a combination of these methodologies. A Public Input Session was held March, 2012 to obtain feedback on the evaluation criteria and the preliminary findings.

The evaluation and response from consultation concluded the preferred site expansion alternative consists of a modest increase in the height of the waste, an expansion of the disposal footprint to the west and north and mining a portion of the existing waste to enhance groundwater quality. All mined and expansion areas will include the



THE CITY OF SAULT STE. MARIE

JANUARY, 2016 NEWSLETTER

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and ultimately direct it to the City's sewage treatment plant for treatment.

Current Activities

The last part of Phase 2 involves assessing the potential impacts of the conceptual design and planned operation of the preferred site expansion alternative and identification of suitable mitigating measures. Multiple disciplines were involved to assess the various potential impacts of the expansion on site, off site, in the vicinity and along the access route. The access route was considered to be along Fifth Line from Highway 17 to the site (which is the same route used today). Measures to reduce or eliminate potential effects on the environment were recommended.

The disciplines that were involved include:

Natural Environment

- Biology
- Geology / hydrogeology
- Surface water

Socio-Cultural Environment

- Cultural (archaeology and heritage)
- Social
- Planned land use
- Visual
- Atmospheric (dust, noise, air quality)

Economic

- Businesses
- Transportation

HOW CAN I PROVIDE INPUT?

We will be hosting a Public Open House where you will learn about the results of the impact assessment work and we will ask for your feedback. If you are interested in discussing the project, we encourage you to attend the upcoming public open house!

YOU'RE INVITED!

Date: Tuesday, February 9, 2016
Location: Civic Centre – 99 Foster Drive
Russ Ramsay Room
Time: 3:30 pm to 7:30 pm
Refreshments to be provided.

We will provide you with background information and discuss, with you, the preferred site expansion option and the results from the impact assessment work.

If you are unable to attend the Public Input Session there are other opportunities to provide input. Please visit the City's website at the address noted below to obtain further information, and / or access a comment sheet.

Project webpage address: saultstemarie.ca/SolidWasteEA

CONTACT US

You may also contact the Consultant Project Manager or the City's Land Development and Environmental Engineer by email, mail or telephone if you have questions or would like additional information.

Mr. Rick Talvitie, P.Eng.

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Sault Ste. Marie, ON, P6A 2M4

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Email: rick.talvitie@aecom.com

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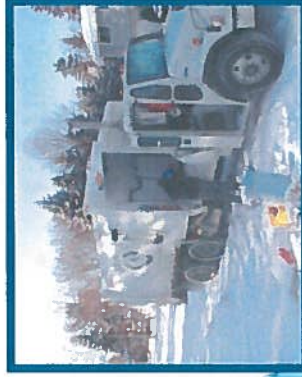
Conceptual Layout of Proposed Landfill Expansion Area





Solid Waste Management Environmental Assessment

WELCOME to the **Open House**



January, 2016

What Should I Do?

- Record your name and contact information on the sign-in sheet.
- Review the handouts and presentation boards with the project team.
- Ask questions and offer your opinions and suggestions.
- Record your comments and opinions on a comment sheet or send us an email or complete a questionnaire (available at this session or online through the City's website on Waste Management EA webpage).

Your input is important to us!





Objectives of the Open House

- Summarize the steps completed to date;
- Present the conclusions and recommendations from the Impact Assessment work for the preferred landfill expansion option;
- Answer questions;
- Solicit input and comments; and
- Identify next steps including the project timing.



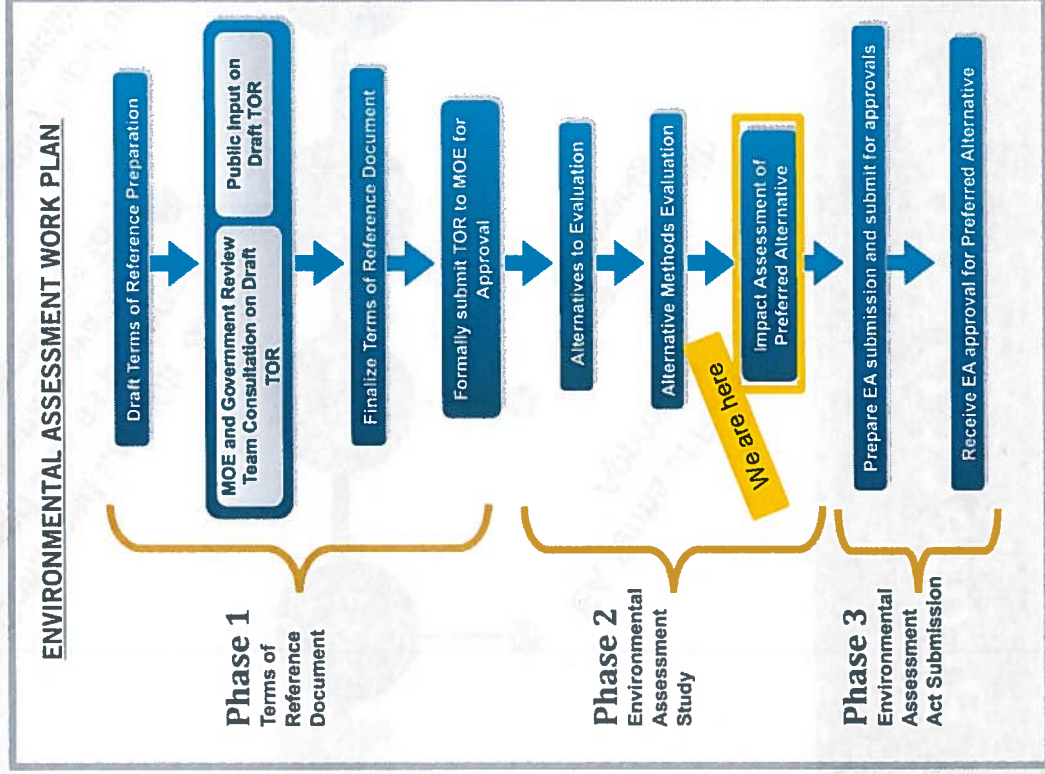
What is an EA?

Purpose = “to protect the environment and quality of life of the people of the province; and facilitate the wise management of the natural resources of the province”.

- The EA Process is a transparent decision-making process used to promote good environmental planning by assessing potential effects of certain activities or projects on the natural and human environment. The EA process serves several important purposes:
 - Allowing projects to receive input from a wide variety of sources, including the federal, provincial and municipal levels of government, First Nations, stakeholders and the public.
 - Identifying potential problems prior to construction
 - Promoting good environmental planning practices
 - Improving community acceptance
 - Better protecting the environment



The EA Process

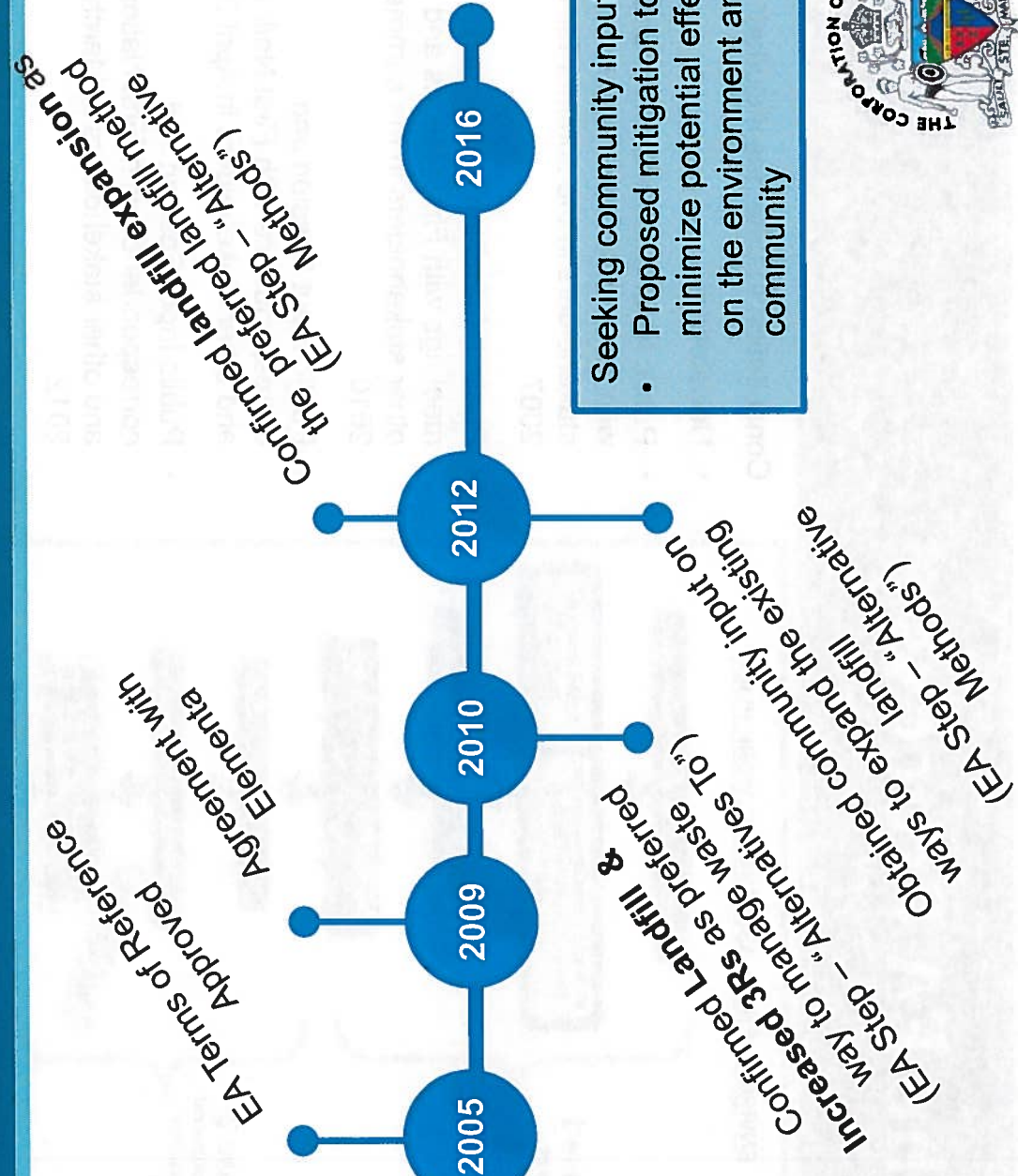


Consultation to date has included:

- Newsletters
- Public Input Sessions and meetings with First Nations and other stakeholders in the summer/fall of 2007
- Public Information Center and meetings with First Nations and other stakeholders in the summer of 2010
- Public Input Session and correspondence with First Nations and other stakeholders in April 2011
- Public Input Session and correspondence with First Nations and other stakeholders in March 2012



Project History



**Diversion
Improvements**



Landfill & Increased 3Rs - Rationale

EA Step – “Alternatives to” Conclusion

Based on the results of the evaluation and input received the preferred long-term approach to managing waste in SSM is:

- Increased 3Rs (Reduce/Reuse/Recycle); and
- Landfilling residual waste.

Why?

- Can comply with regulations and policies.
- City is experienced with these waste management initiatives.
- Flexible to changes in the waste stream (e.g. population, waste generation, diversion).
- Can accept non-hazardous residual waste from a Waste-to-Energy facility.
- Cost efficient.



Landfill Expansion - Rationale

EA Step – “Alternative Methods” Conclusion

Based on the results of the evaluation and input received the preferred method of landfilling waste = expansion of an existing site.

Why?

- Likely less potential for displacement and disruption.
- Only one landfill site to manage and maintain.
- Cost effective.
- Community adaptation.
- Likely fewer challenges in gaining approvals.



North and West Expansion with Mining - Rationale

EA Step – “Alternative Methods” Conclusion

Based on the results of the evaluation and input received, the preferred expansion option = Option 3 - North and West Expansion B with Landfill Mining.

Why?

- Site development (i.e. geometry and storm water management) enhanced relative to Options 2 and 4.
- Reduced average excavation depth in west expansion area (i.e. 11m).
- Includes a liner beneath the waste within the western portion of the existing disposal footprint enhancing long term ground water quality.
- Includes a liner over existing waste in areas of overlap to further enhance ground water quality.
- Meets target capacity at current estimated waste densities.





Preferred Option

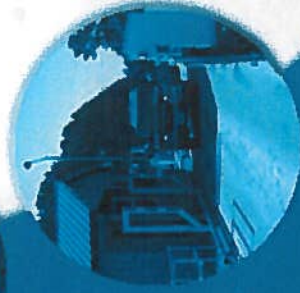


- | | |
|---|------------------------------------|
|  | Existing Landfill Area |
|  | Proposed Horizontal Expansion Area |
|  | Proposed Landfill Mining Area |

Impact Assessment

What is it?

- Focused investigation and analysis to identify potential impacts to the environment resulting from the construction or changes in the operation of the expanded landfill.
- Also includes consideration of potential opportunities for enhanced mitigation that otherwise would not likely be implemented in the absence of the proposed expansion.



Impact Assessment

- The detailed impact assessment required expertise in the following disciplines:
 - ✓ Biology (terrestrial and aquatic);
 - ✓ Geotechnical;
 - ✓ Groundwater;
 - ✓ Atmospheric (acoustic and air quality);
 - ✓ Surface water;
 - ✓ Socio-economic;
 - ✓ Visual;
 - ✓ Traffic;
 - ✓ Archaeological/cultural; and
 - ✓ Planned land use.



Impact Assessment – Biology

The proposed expansion will require the removal of approximately 12.7 ha on-site woodland and meadow vegetation.

Mitigation/Enhancements

- Erosion and sediment control (e.g. use silt fences to reduce risk of soil washing into watercourses)
- Woodland edge management (e.g. avoid using heavy machinery over roots of edge trees)
- Wildlife impact management during construction (e.g. avoiding bird nesting seasons when clearing)
- Environmental monitoring of proposed mitigation measures during construction
- Reforestation.

Potential Impact

- It is anticipated that the overall natural environment impact will be minimal.





Impact Assessment – Geotechnical

Review existing data and complete a geotechnical field investigation including test hole drilling, soil sampling and analyses to support engineering studies and stability assessments for possible landfill configurations.

Conclusions and Recommendations

- Bearing capacity of foundation soil is adequate.
- Waste settlement in the range of 10%-25% should be expected.
- Install 2 reinforcement layers (eg. geogrid) to protect liner.
- Incorporate settlement monitoring in initial cell(s) to provide guidance for the design of remaining cells.
- Maximum excavation side slope = 3H:1V.
- Maximum landfill waste slopes = 4:1 for 10m height, 5:1 for heights 10m-15m and 6:1 for heights >15m.

Impact Assessment – Groundwater

Leachate from landfills has the potential to contaminate groundwater; as such MOECC has strict groundwater criteria that must be met at all sites. It is noted that the expansion is outside of the wellhead protection zones established for the municipal groundwater supply.

Mitigation/Enhancements

- New expansion will be fully engineered with a liner and leachate collection system.
- Frequent groundwater and surface water monitoring will be undertaken and reported to MOECC.

Potential Impact

- With mitigation in place the expansion is expected to meet MOECC requirements and have minimal impact to groundwater.
- The proposed landfill mining has the benefit of being able to improve historical groundwater contamination on the west side of the existing fill area.





Impact Assessment – Noise

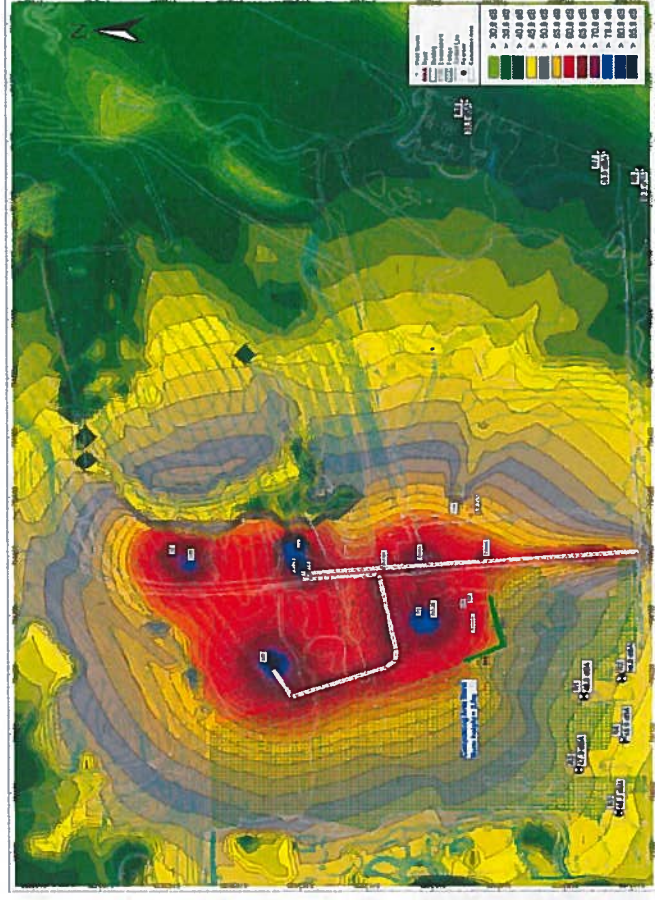
The noise assessment considered the potential impact of the worst-case noise emission scenarios on 8 receptors. MOECC Noise Guidelines for Landfills require that noise should be equal to or less than 50 dBA at these receptors.

Mitigation/Enhancement

- A 2.5 metre high berm around the proposed compost pad is planned to reduce noise from activities in this area

Potential Impact

Noise from the site is anticipated to be within the MOECC noise guidelines.



Impact Assessment – Air Quality

Typical Pollutants from landfill operations include nitrogen oxide from combustion of fuel and dust and finer particulate matter from the movement of vehicles. The air quality analysis looked at worst case scenarios to assess the potential for these contaminants.

Mitigation/Enhancements

- Best management practices were assumed in the assessment including:
 - Equipment will comply with up-to-date emissions standards
 - Dust mitigation practices such as watering will be used where necessary

Potential Impact

- No exceedances of MOECC air quality criteria are predicted.



Impact Assessment – Odour

Landfill sites, especially landfill mining has potential to cause odour effects.

Mitigation/Enhancements

- Staged expansion of landfill gas management system.
- Odour control spray system/ portable deodorizing system.
- Construction of a biosolids processing facility.
- Development of an Odour Management Plan for landfill mining including activities such as:

- Management of operations based on meteorological conditions
- Daily inspections to adjust and refine mining operations
- Bypass screening of waste for highly odorous material
- Use of chemical and biological treatment to reduce odour
- Use of periphery odour misting system
- Minimize size of active excavation
- Cover applied to excavated area at the end of the day

Potential Impact

- It is anticipated that odour may occur during landfill mining. The City of Sault Ste. Marie will work with the community to minimize odour effects to the extent possible. A complaint procedure will be put in place.



Impact Assessment – Surface Water

The site expansion could result in increased peak storm water flows in receiving rivers and creeks and adversely impact water quality. The surface water assessment considered major storm events and developed an effective storm water management plan to protect water quality.

Mitigation/Enhancements

- Storm water to be collected in ditches adjacent to the perimeter road and conveyed to four storm water ponds to remove a minimum 80% total suspended solids.
- Ponds will also provide emergency leachate/spill containment.
- No increase in peak flows in Canon Creek or Root River.
- Regular inflow monitoring for contaminants will be undertaken by operations staff.

Potential Impact

- No impact on peak flows and potential to enhance quality relative to existing conditions.



Impact Assessment – Socio-Economic

Complete studies and solicit input to understand and address potential effects on residents and businesses associated with the proposed expansion (i.e. displacement, disruption, nuisances, community character).

Mitigation/Enhancements

- Key local concerns include vermin/wildlife and odour.
- Vermin/wildlife management plan to be included in Design and Operations Report.
- Odour mitigation will be enhanced relative to current activities – refer to odour impact assessment.

Potential Impact

- Based on the feedback received and the results of impact assessment studies (eg. air quality, noise, traffic) effects are not expected to be significant relative to current levels provided mitigation is implemented.



Impact Assessment – Visual

The proposed expansion may impact the visual landscape in the site vicinity and beyond.

Mitigation/Enhancements

- No significant impact is anticipated due to the existing effective vegetative screening at and adjacent to the site.
- Proposed mitigation includes berms and vegetative buffers to further obscure the landform.
- Vegetative cap to be provided on final landform.
- Some reforestation proposed to compensate for removal of vegetation.

Potential Impact

- No significant change on the visual landscape is anticipated.



Impact Assessment – Traffic

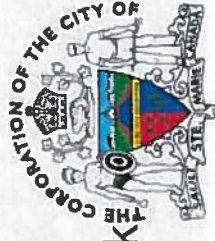
The expansion could impact, traffic volumes, types, safety and the transportation network.

Mitigation/Enhancements

- Modest changes in traffic during construction and the operating life.
- Fifth Line/ Hwy.17 intersection geometrics, although adequate, are not ideal.
- Complete clearing, removal/relocation of signs to maximize sight lines from Fifth Line approaches.
- Maintain flashing amber/reduce speed sign and hidden intersection signage on Hwy.17 approaches to Fifth Line.
- Maintain left and through prohibitions for trucks and buses from Fifth Line approaches.
- Complete technical review to identify further enhancements.

Potential Impact

- Limited overall impact on the transportation network
- Potential to enhance Hwy.17/Fifth Line safety.





Impact Assessment – Cultural

Portions of the landfill site were identified in the Official Plan as having potential for archaeological resources.

Mitigation/Enhancements

- Conducted a Phase 1 and 2 archaeological assessment to further explore the potential for on-site archaeological resources.
- Field work was completed by a licensed Archaeologist and no archaeological sites were found.

Potential Impact

- The report concludes no further archaeological assessments are required for this property.

Impact Assessment – Land Use

There are policies and guidelines that address land uses in the vicinity of landfills and on the City's groundwater recharge area. The assessment considered all policy and guideline requirements.

Mitigation/Enhancements

- 18 properties including within existing Area of Influence (AOI).
- 12 additional properties (8 sensitive) within the expanded AOI.
- Completed focused studies as required by MOECC Guidelines and City's Official Plan to assess impacts to sensitive uses and natural and heritage resources.
- Future development/redevelopment in the area will consider MOECC AOI guidelines.
- Rezoning SW portion of property to be undertaken following EA Act approval.

Potential Impact

- Potential impacts and mitigation are included with the individual impact assessment reports.





Next Steps

- Review all input received and modify impact mitigation as needed.
- Prepare the Design and Operation Report for the site.
- Prepare Environmental Assessment Document.
- Issue the EA Report including the D&O report to the MOECC.



THE CITY OF SAULT STE. MARIE

FEBRUARY 9, 2016 PUBLIC OPEN HOUSE

SOLID WASTE MANAGEMENT ENVIRONMENTAL ASSESSMENT

COMMENT SHEET

The City of Sault Ste. Marie is undertaking an Environmental Assessment (EA) Study to determine the preferred method for managing its municipal solid waste. To date, we have completed a thorough review of different ways to manage waste including increased waste diversion, incineration/high heat processes, landfill, export of waste outside the service area, and "do-nothing". The City decided to pursue a combination of increased waste diversion through reduction, reuse and recycling (i.e. 3Rs) and landfilling of the residual waste.

The next phase in the EA Study involved finding an environmentally suitable location for the development of additional landfill capacity and we looked at developing a new landfill or expanding an existing landfill. The evaluation and input received through the spring 2011 public consultation activities concluded that an expansion of an existing landfill is generally preferred.

We then focused on the best way to expand the existing landfill site at 402 Fifth Line East in the City of Sault Ste. Marie. We looked at expanding the landfill by increasing the footprint area, and/or increasing the height of the landfill, and/or mining some of the existing waste. The evaluation and input received through the spring 2012 public consultation activities concluded that an expansion would best be accommodated with a moderate increase in the height of the waste together with an expansion of the disposal footprint to the north and west. The preferred option also includes landfill mining (excavate existing disposed waste and cover material, recover earthen material or "fines" and return the waste to the disposal footprint) in the western portion of the existing disposal footprint to enhance groundwater protection. All mined and expansion areas will include the construction of a liner beneath the waste to collect leachate (precipitation contaminated as it filters through waste) and ultimately direct it to the City's sewage treatment plant for treatment.

Since that time the team has focused attention on completing an impact assessment for the preferred design option which requires expertise in various disciplines to identify and assess potential impacts on the natural and human environments that may result from the construction and operation of the proposed expansion. Careful attention is given to best management practices to mitigate potential impacts. More information is available on the project webpage (Address = saultstemarie.ca/SolidWasteEA) including **background reports**, the most recent **Project Newsletter** and the February 9, 2016 **Public Open House displays**.

We want your input! You can provide comments in one of two ways:

1. Using this comment sheet (SPACE is provided on the BACK for comments); or
2. Sending the project team an email (see email address below) - please include **"City of SSM Waste Management EA – Comments"** in the subject line of your email message.

PLEASE RETURN completed comment sheets by March 11, 2016

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Questions:

Do you have any concerns about the potential for impacts from the proposed expansion?

Are there any additional mitigation measures you would like to see put into place?

Other Comments:

Please add me to the mailing list:

Name: _____

Address: _____

Phone: _____

Email: _____