
APPENDIX E

Community Liaison & Advisory Committee (CLAC) Meeting Minutes

Clean Harbors Canada, Inc.

2017 Annual Landfill Report



**COMMUNITY LIAISON & ADVISORY COMMITTEE
MEETING MINUTES - FINAL**

February 7, 2017

Lambton Facility Board Room

Attendees:

*Brian Murphy
Bill Allingham
Dave Robinson
Paul Vandersteen
Barry White
Jim Elliott*

*Neighbour
Neighbour
Neighbour
Neighbour
Neighbour
Neighbour*

*Devon Jamieson
John McDonald
Erica Carabott
Mike Parker*

*Clean Harbors, Facility Administrator (Secretary)
Clean Harbors, General Manager, Landfill
Clean Harbors, Facility Compliance Manager (Chair of meeting)
Clean Harbors, Director of Compliance (Chair)*

Tracy Kingston

St. Clair Township Councillor

Don Hayes

Ministry of the Environment, Provincial Officer

Regrets:

*Peter Gilliland
Jim Brown*

*St. Clair Township Deputy Mayor
Clean Harbors, General Manager, Incinerator*

Guests:

1. Welcome

- The meeting was called to order at 5:15 pm.

2. Minutes from Last meeting

- Minutes from November 2016 meeting were approved by Tracy Kingston, seconded by Brian Murphy and agreed upon by the committee.

3. Facility Updates – (Presentations were made)

Landfill: John McDonald

- 19-1-1 90% capped.
- Remaining area will be capped within the next couple of months
- Using selected waste for final grading of waste
- ½ of 19-1-2 is open, currently being filled

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- Haul road extended to avoid driving on waste
 - No planned construction for the next couple of months
 - Continuation of cell 19-1-2 construction in the summer.
 - Cement Kiln Dust -5000 more tonnes expected,166 truck loads and there have been delays due to mild weather
 - Large volume of surface water on site.
 - Discharge has been ongoing for 2 weeks and will continue.
 - Current discharge rate is approx. 1 million Liters per day.
 - Landfill volumes are still down

Incineration: Jim Brown (absent)

- Mike reported that the Incinerator is running well, maintaining 90% or better of capacity.

Thermal Desorber: John McDonald

- Less than 900 MT of waste on site
- Large Project underway. Expecting 2500 MT in 2 months
- Good production in January of 1842 MT
- February expected to reach 2200 MT
- No Catalyst projects at this time
- Enclose ID platform

2017 Plant Improvements – TDU

- Continue catwalk development
- Feed hopper reconstruction
- Drum Replacement
- Rad insulation panels
- Continue winterization plan
- Pig rebuilds for vent line
- New excavator

Compliance: Erica Carabott

- Getting ready for the 2017 monitoring year.
- Finalizing the 2016 monitoring program reports.

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- Preparing the 2016 Annual Landfill Report (Due April 1, 2017).
 - Incinerator mercury stack test scheduled for February 28.
 - Received incinerator annual stack test report (test done week of October 18). All parameters were well below standard requirements.

Transportation: John McDonald

- No new updates.

Facility Administration: Devon Jamieson

- At the end of the year we were able to make donations to the following local charities as we had some extra funds
 - Heavens Wildlife Rescue
 - Canadian Cancer Society
 - St. Joseph's Hospice
 - Kidney Foundation of Canada, Sarnia Div.
- We hope to chose our charities within the next few weeks for 2017.
- Household Hazardous waste days have been posted on the Lambton County Website and will be held on the following Saturdays;
 - March 25
 - April 29
 - May 27
 - June 24
 - September 30
 - October 28

Proposed Approval Applications: Michael Parker

- Landfill Proposed ECA Amendments:
 - Landfill - LDR – thallium variance
 - Thallium dedicated landfill cell
 - LDR – blending variance
- Incineration Proposed ECA Amendments:
 - ECAs consolidation
 - Quench water from off-site
 - Burning leachate in the quench zone
 - Destroying Ozone Depleting Substances (generally compressed gas)

Ministry Report: Don Hayes

- The MOECC had their staff onsite to witness the stack test.
- Updated the financial assurance for the household hazardous waste.
- The landfill financial assurance is complete and the incineration and tank farm should be completed shortly.

Open Discussion / New Business:

- Mike explained to the committee the possibility of a Thallium project and how the Company would intend to dispose of it pending an approval from the Ministry.
- Updated map of the Good Neighbour eligible properties is to be sent to the committee by March 20th. (Devon Jamieson)
- Mike reported the increase per ton in HWIN fees to Generators from \$20.00 to \$30.00.

Next meeting will be held on Tuesday April 18, 2017 at 5:00pm at Clean Harbors.

Please contact Devon Jamieson @ 519-864-3833 or e mail @ jamieson.devon@cleanharbors.com with any questions, comments or concerns regarding the minutes prior to the next meeting.



**COMMUNITY LIAISON & ADVISORY COMMITTEE
MEETING MINUTES-FINAL**

April 18, 2017

Lambton Facility Board Room

Attendees:

*Brian Murphy
Bill Allingham
Dave Robinson
Barry White
Jim Elliott*

*Neighbour
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Neighbour*

*Devon Jamieson
John McDonald
Erica Carabott
Mike Parker
Jim Brown*

*Clean Harbors, Facility Administrator (Secretary)
Clean Harbors, General Manager, Landfill
Clean Harbors, Facility Compliance Manager (Chair of meeting)
Clean Harbors, Director of Compliance (Chair)
Clean Harbors, General Manager, Incinerator*

*Tracy Kingston
Peter Gilliland*

*St. Clair Township Councillor
St. Clair Township Deputy Mayor*

Don Hayes

Ministry of the Environment, Provincial Officer

Regrets:

*Mike Parker
Paul Vandersteen*

*Clean Harbors, Director of Compliance (Chair)
Neighbour*

Guests:

1. Welcome

- The meeting was called to order at 5:15 pm.

2. Minutes from Last meeting

- Minutes from April 2016 meeting were approved by Bill Allingham, seconded by Dave Robinson and agreed upon by the committee.

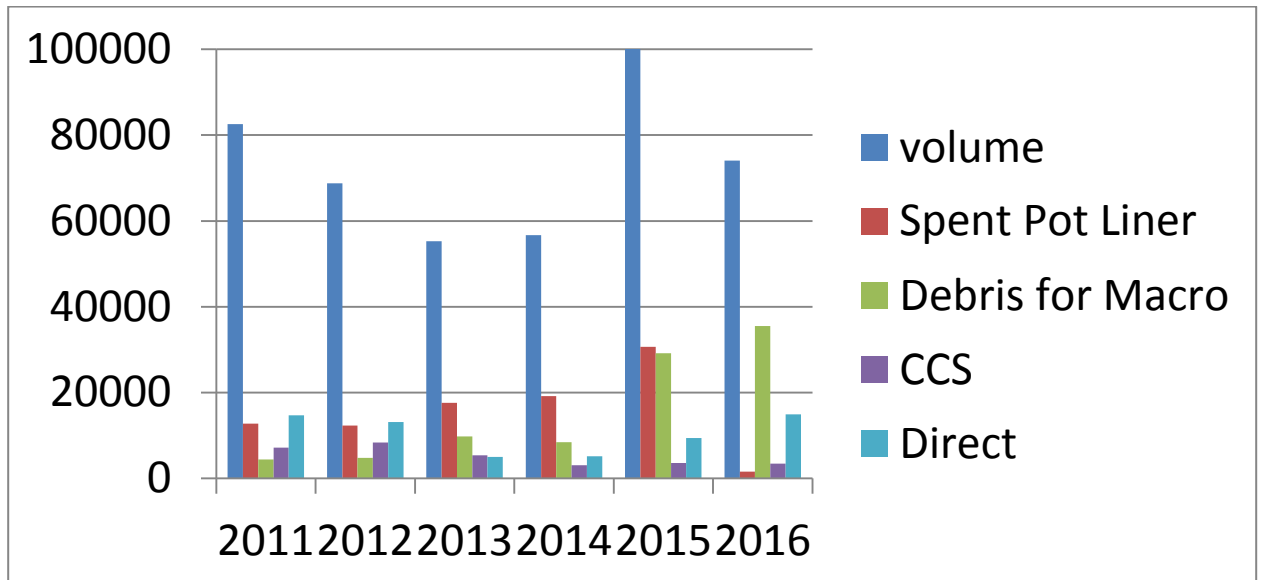
3. Facility Updates – (Presentations were made)

Landfill: John McDonald

- Still working in 19-1-2 roughly ½ full.
- 19-1-1 is full, we are just waiting to finish the capping

- Within the next Month we will be constructing the next cell.

Historic Volumes



- Debris streams are our largest incoming stream at this time.
- The spike in 2015 was due to US plant closures and site cleanups.
- The site is looking at the option for composting on site for internal use. We are currently in the preliminary stages to see if we even want to get involved with composting or not.

Incineration: Jim Brown

- Had our shut down on March 29/17
- Restarted on April 4/17
- Relined incinerator fire box
- We also found wear in the throat section of the hopper
- Removed a section 16 feet by 3 feet and sprayed in new refractory
- Did visualite check on the bags in baghouse
- Changed out 24 bags that were showing wear
- All the ash was removed from incinerator
- Normal wash out of all ducts and Spray Dryer
- When we are incinerating at 95% of maximum the flows would be:
 - ▶ 30 to 35 lpm of fuel
 - ▶ 10 to 15 lpm of emulsion
 - ▶ 175 to 190 lpm of lean
- In order to hit these flow numbers we need to be at the heat values previously mentioned.

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- Customer waste is divided into three different waste stream based on their heat value;
 - ▶ 0- 6 mj/kg is Lean
 - ▶ 6 – 25 mj/kg is emulsion
 - ▶ 25 mj/kg or greater is fuel
 - We blend our feed tanks to;
 - ▶ Lean 4 mj/kg to 5.5 mj/kg
 - ▶ Emulsion 17 mj/kg to 20 mj/kg
 - ▶ Fuel 29 mj/kg to 35 mj/kg
 - From the off loading tanks the waste is blended into feed tanks prior to being pumped to the incinerator for destruction
 - The largest parameter for pumping to the feed tanks is heat value
 - The operators have blenders for each type of waste they blend, which allows them to enter tank levels, lab analysis and a target Heat value.

Thermal Desorber: John McDonald

- Back up and running after shutdown with minor repairs and usual maintenance.
- Issues with the weigh belt and has since been repaired.
- 500 tons only on schedule for incoming waste this month.
- Approved Prenote for UN 1390 catalyst from the US market.
- Turnaround times improved to less than 60 days for processing and disposing.
- Catalyst Restrictions:
 - ▶ Processing and Disposal only
 - ▶ Feed system only capable of handling FloBins and Chep bins
- No Catalyst for Desorber on site at this time
- Carryover of solids into the gas stream can be a problem
- Wet Feed or high organics – No satisfactory blending stock available
- Live unload or high volume projects.

Compliance: Erica Carabott

- One requirement of our landfill ECA is the condition of an annual report that details landfill activities and the onsite environmental monitoring programs conducted during the year.
- This annual report approaches 1,000 pages and presents a detailed compilation of the environmental monitoring programs conducted at the site in addition to a summary on the

volumes of wastes received and details of any cell excavation work done during the reporting period.

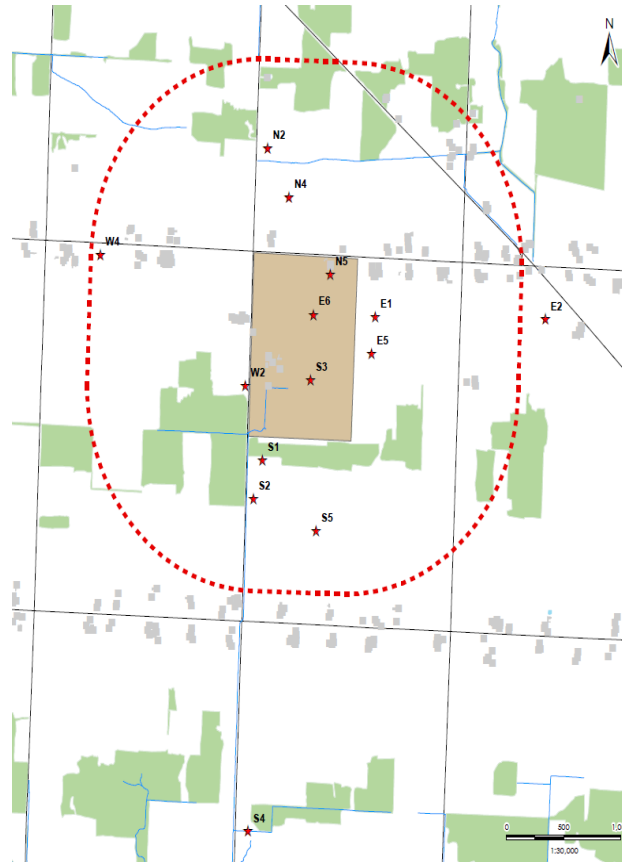
- The annual landfill report was issued on April 1, 2017 and covers the period of Jan 1, 2016 – Dec 31, 2016.
- Available on the Clean Harbors website: <http://www.cleanharbors.com/locations/canada/lambton-facility/landfill-report-pages/2016-landfill-report>

Air Monitoring Report:

- Conducting an annual ambient air fence line monitoring program for more than twenty years.
- This includes a series of measurements at the fence line, for a selected group of compounds, in accordance with a monitoring plan that was approved by the MOECC.
- Results are compared each year with applicable MOECC air quality standards and criteria.
- Concurrent 24-hour sampling was conducted at two fixed locations - the north site and the south site.
- The two locations are based on the prevailing south to southwesterly wind directions.
- All measured levels of the various vapour and particulate constituents were found to be below the accepted regulatory air quality concentration limits.

Bio-Monitoring Report:

- Bio-monitoring commenced in 1991.
- Monitors concentrations, or presence/absence of selected chemicals in environmental media (grasses, soil, sediment, agricultural crops) to track any changes/ trends over time.



- Overall, majority of higher level compounds detected were Group 1 inorganic analytes – which are naturally found and required nutrients in the environment (e.g. calcium, iron, phosphorus), and do not have a negative effect on plant, human or animal health.
- No results from the Group 2 analytes (known to have toxicological effects in the environment) warranted any additional investigation.
- Group 3 analytes (known toxins and/ or carcinogens) were not detected at levels of human or environmental concern.

Surface Water Monitoring Program:

- Discharged for 81 days during reporting period.
- Daily effluent monitoring conducted by onsite lab during discharge.
- As part of the monitoring program sampled the EQ pond, West pond and East pond and sent samples to offsite lab. This was conducted prior to discharge, and every 25 to 30 days after during the discharge.
- Consultant conducted offsite sampling in the spring & fall.
- Effluent daily criteria were met during each active day of discharge from the EQ pond except at the beginning of discharge Period 1 (April 2, 2016). Discharge operations were

suspended immediately upon confirming TSS exceedances with the issue resolved in a timely manner to permit discharge.

- Based on analysis of the daily and monthly discharge chemical monitoring data collected during the monitoring period, no detrimental long-term trends for surface water quality were identified.
- Based on comparison of the on- and off-Site surface water monitoring data, the surface water being collected and treated for discharge from the Lambton Facility is not having a detrimental effect on off-Site downstream water.
- Toxicity monitoring indicates that none of the Equalization Pond samples collected in 2016 resulted in toxicity to microorganisms.

Groundwater Monitoring Report:

- The goal of the monitoring program is to provide early detection of changes in groundwater quality at the site. To address this goal, monitoring wells have been installed along the perimeter of the Facility property.
- Two monitoring events (as designed and approved by the MOECC) are completed on an annual basis in the spring and fall of each year.
- The results are added to the existing database of information and used to produce updated groundwater elevation plans and 'concentration vs. time plots'. Statistical analysis of the chemical data is performed to distinguish between long-term trends and short-term "spikes" and anomalous data.
- The water samples collected from the wells are analyzed for major and minor ions, metals and volatile organic compounds (VOCs). Samples are analyzed against Ontario Drinking Water Standards & Provincial Water Quality Objectives.
- The monitoring well network consists of:
 - 33 shallow monitoring wells (24 on-site; 9 off-site)
 - 25 deep monitoring wells including (19 on-site; 6 off-site)
 - 8 wells installed in and adjacent to Sub-cell 3
- In general, Total Dissolved Solids (TDS), boron, chloride, sodium, fluoride, sulphate and barium were detected on occasion at concentrations above the ODWS in the shallow monitoring wells that have been installed both off-property and within the Facility property.
- Water level monitoring at the wells installed in the remedial structures in Sub-cell 3 confirms that an inward hydraulic gradient is being maintained.
- South berm monitoring: The chloride and sodium concentrations at these two wells fluctuate seasonally, but are within the historical concentration range for these two parameters.

Quarterly site inspections:

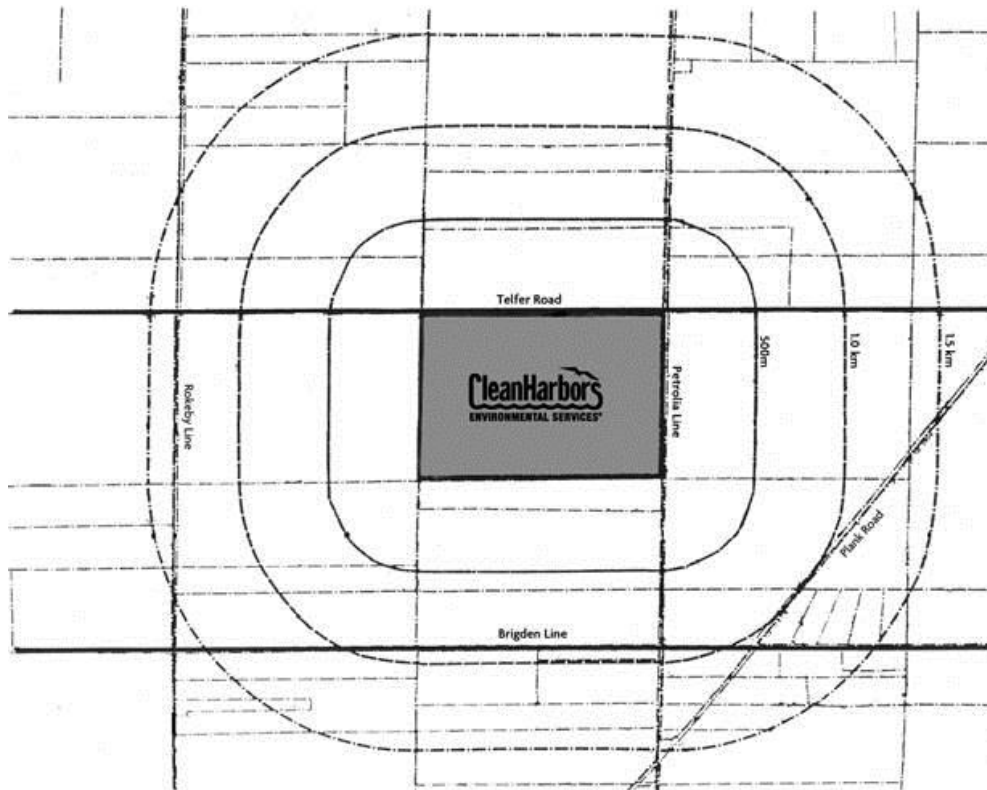
- Consultant performed quarterly site inspections of the site on the following dates:
- First Quarter 2016 – March 23, 2016
- Second Quarter 2016 – June 23, 2016
- Third Quarter 2016 – August 26, 2016
- Fourth Quarter 2016 – November 10, 2016
- The site inspections consist of a visual assessment of the landfill operations including the waste fill area, the excavated cell area, the landfill cap, berm construction and the surface water management system.

Transportation: John McDonald

- No new updates.

Facility Administration: Devon Jamieson

- The 2017 Household Hazardous waste days underway.
- Household Hazardous waste days have been posted on the Lambton County Website and will be held on the following Saturdays;
 - March 25
 - April 29
 - May 27
 - June 24
 - September 30
 - October 28
- Finalized Good Neighbour program with new map will be forwarded to each Good Neighbour member.
- It was asked about an open house to be held for the Good Neighbours for the Good Neighbour Program. There is no mention in any of the supporting documentation regarding the Company having an open House for any changes to the program. The CLAC terms of reference in section 9 reference that the committee shall hold a well-publicized, public annual meeting. The Company has held this in respect to the terms each year.



- Updated Appendix A with new changes.
- Demolitions to begin within the next few months. Notice activity.

Ministry Report: Don Hayes

- The annual report has also been sent to the MOECC personnel that conduct reviews for the site as well.
- Throughout the year split samples are also taken by the MOECC for comparison.
- MOECC documentation also showing emissions dropping over time.
- Reported that the stack test results prove that the site is emitting way below the allowable limit. A good news storey for anyone in the airshed.
- One odour complaint last year.

Open Discussion / New Business:

- Cap and Trade – Company exempt this year however we need to show we can generate energy.
- To use radiant heat at the incinerator as electricity to assist with the co-gens. Consultants to investigate and design.
- The company is still only in discussion regarding accepting a Thallium waste stream from British Columbia. There is no current plan to accept the stream. There will be updates to the committee. The company is currently not able to accept.

Next meeting will be held on Tuesday June 20, 2017 at 5:00pm at Clean Harbors.

Please contact Devon Jamieson @ 519-864-3833 or e mail @ jamieson.devon@cleanharbors.com with any questions, comments or concerns regarding the minutes prior to the next meeting.



**COMMUNITY LIAISON & ADVISORY COMMITTEE
MEETING MINUTES**

June 20, 2017

Lambton Facility Board Room

Attendees:

*Brian Murphy
Bill Allingham
Dave Robinson
Barry White
Jim Elliott*

*Neighbour
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*Devon Jamieson
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Clean Harbors, General Manager, Incinerator*

*Tracy Kingston
Peter Gilliland*

*St. Clair Township Councillor
St. Clair Township Deputy Mayor*

Don Hayes

Ministry of the Environment, Provincial Officer

Regrets:

*Mike Parker
Paul Vandersteen*

*Clean Harbors, Director of Compliance (Chair)
Neighbour*

Guests:

1. Welcome

- The meeting was called to order at 5:15 pm.

2. Minutes from Last meeting

- Minutes from April 2017 meeting were not approved as they were only sent out the day before. Will be approved at next meeting.

3. Facility Updates – (Presentations were made)

Landfill: John McDonald

- Still working in 19-1-2.

Capping progress



- Still working in 19-1-2.
- The hull road has been relocated out further.
- The volumes are up and we are seeing a lot of non hazardous waste streams. There are a few projects that are up and coming.

Incineration: Jim Brown

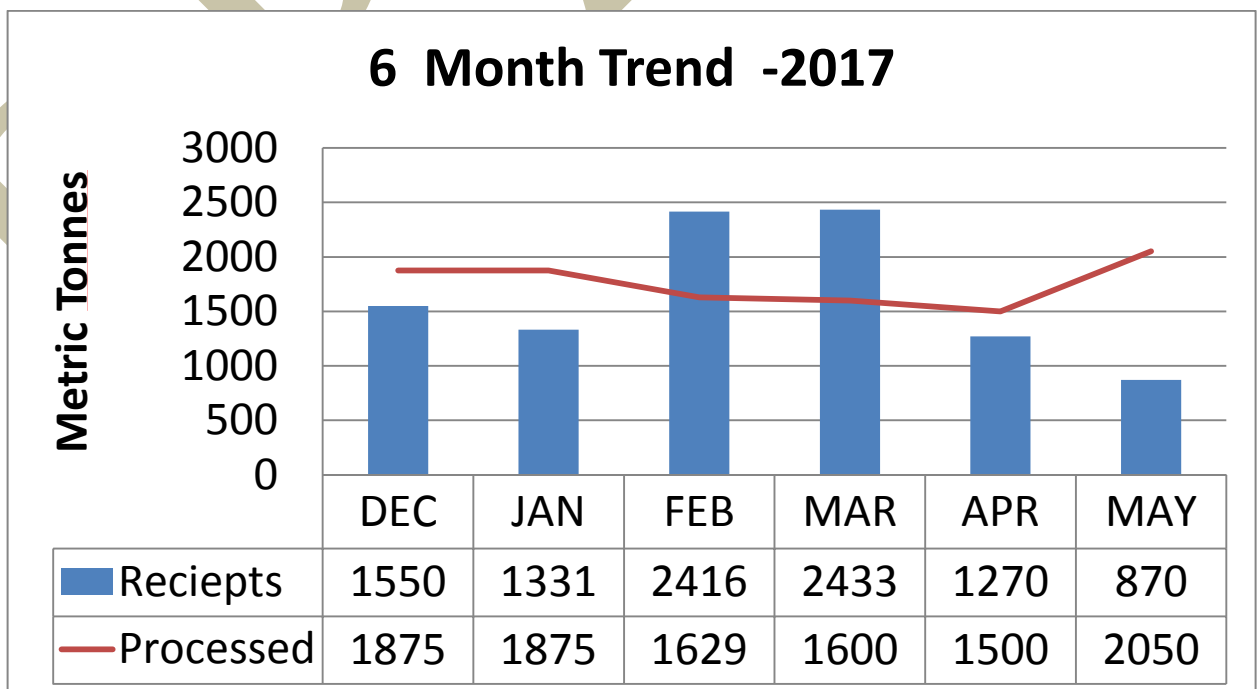
- Incinerator has been operating well the first 6 months of the year.
- Seems to be more than normal amount of liquid wastes being produced this year, not sure if it is because of the warm winter and wet spring or not.
- We choose to shutdown earlier than normal this summer due to refractory getting thin in the fire box and the primary section of the incinerator.
- So we were getting high temperature reading on the outer shell of the primary indicating refractory is worn out.
- Also the bags in the baghouse were not coming as clean as they normally do.
- Were started our shutdown June 5th and went back up on waste late on June 14th.

- All 1632 bags were pulled and replaced in the baghouse.
- 2/3 of the primary refractory was removed and replaced.
- ½ the secondary refractory was removed and replaced.
- We also washed the entire system from quench to baghouse.
- The two Lean feed pumps and lines were removed and replaced with new and improved ones.
- Still Centrifical pumps, they are just smaller and more efficient, while still being capable of feed enough lean to the incinerator.
- We have our mercury test scheduled for June 29, 2017.
- The yearly stack test is scheduled for the week of September 11, 2017.

Thermal Desorber: John McDonald

Completed major turnaround

- Line penciling/general clean out.
- Vent line cleaning and pigging.
- Feed hopper repairs.
- Slide gate installed on bottom of drop out box to assist in maintenance.
- Excavator bucket repairs.
- Processed 86 bins of Catalyst in May which boost production numbers.
- No Catalyst for Desorber on site at this time.



- The material has been bermed off, and is being sprayed with brine water to minimize dust emissions.
- The company is working with MOECC and St. Marys Cement to find a resolution for this pile:
- Material sent back to St. Mary's Cement; or
- Material is landfilled at the facility.

► **Landfill Fire**

- The facility received boxes of non-hazardous used filter media with cutting oil and steel fines from a generator in Guelph.
- Some of these boxes were landfilled on June 8 and 9, in an area of the landfill which happened to be separate from the rest of the landfilled waste.
- On June 12, at approximately 2:30pm, the material spontaneously caught on fire, possibly due to the hot weather and wind conditions, which dried up the material.
- The Emergency Response Plan was activated, and the Fire Dept was alerted.
- MOECC was notified immediately.
- Fire Dept was on-site around 2:50pm, set-up their equipment, and had extinguished the fire by 4pm.
- The all clear was given at 4:50pm. Fire Dept left around 6pm.
- One fire fighter suffered from heat exhaustion and was taken to the hospital. He was discharged later on.
- The facility received one neighbour complaint, who felt sick from the smoke from the fire, which was blowing in the direction of her place of residence. Neighbor went to the hospital but was discharged after being seen by a doctor.
- JHA to be conducted prior to processing any more boxes of this material to ensure the safe handling of this waste stream.
- Account Manager has contacted the generator to inform them of the incident.

Transportation: John McDonald

- No new updates.

Facility Administration: Devon Jamieson

- The 2017 Facility Open House is scheduled for September 27th.
- We have found that holding the Open House here at the facility has been very successful in the past so we would like to continue with that tradition.
- We will have a BBQ and conduct site tours and be available for questions anyone might have.

- Updated Appendix A with new changes.
- Demolitions to begin within the next few months. Notice activity.

Ministry Report: Don Hayes

- Sampled the EQ pond.
- Sampled the waste from the TDU (Post-treated waste), Sampled post treated LDR, Sampled the lamella waste and then sampled the surface water from the east pond and then a leachate sample. These will be ran at the MOECC lab against regulation.
- Working on ECA's still.

Open Discussion / New Business:

- Thallium waste approval submission still in discussion stages.

Next meeting will be held on Tuesday September 19, 2017 at 5:00pm at Clean Harbors.

Please contact Devon Jamieson @ 519-864-3833 or e mail @ jamieson.devon@cleanharbors.com with any questions, comments or concerns regarding the minutes prior to the next meeting.



**COMMUNITY LIAISON & ADVISORY COMMITTEE
MEETING MINUTES**

September 19, 2017

Lambton Facility Board Room

Attendees:

*Brian Murphy
Bill Allingham
Dave Robinson
Paul Vandersteen*

*Neighbour
Neighbour
Neighbour
Neighbour*

*Devon Jamieson
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Clean Harbors, General Manager, Incinerator*

*Tracy Kingston
Peter Gilliland*

*St. Clair Township Councillor
St. Clair Township Deputy Mayor*

Regrets:

*Jim Elliott
Barry White
Don Hayes*

*Neighbour
Neighbour
Ministry of the Environment, Provincial Officer*

Guests:

1. Welcome

- The meeting was called to order at 5:15 pm.

2. Minutes from Last meeting

- Minutes from April 2017 meeting were approved along with June's minutes by Bill Allingham and Tracey Kingston. All were in favour.

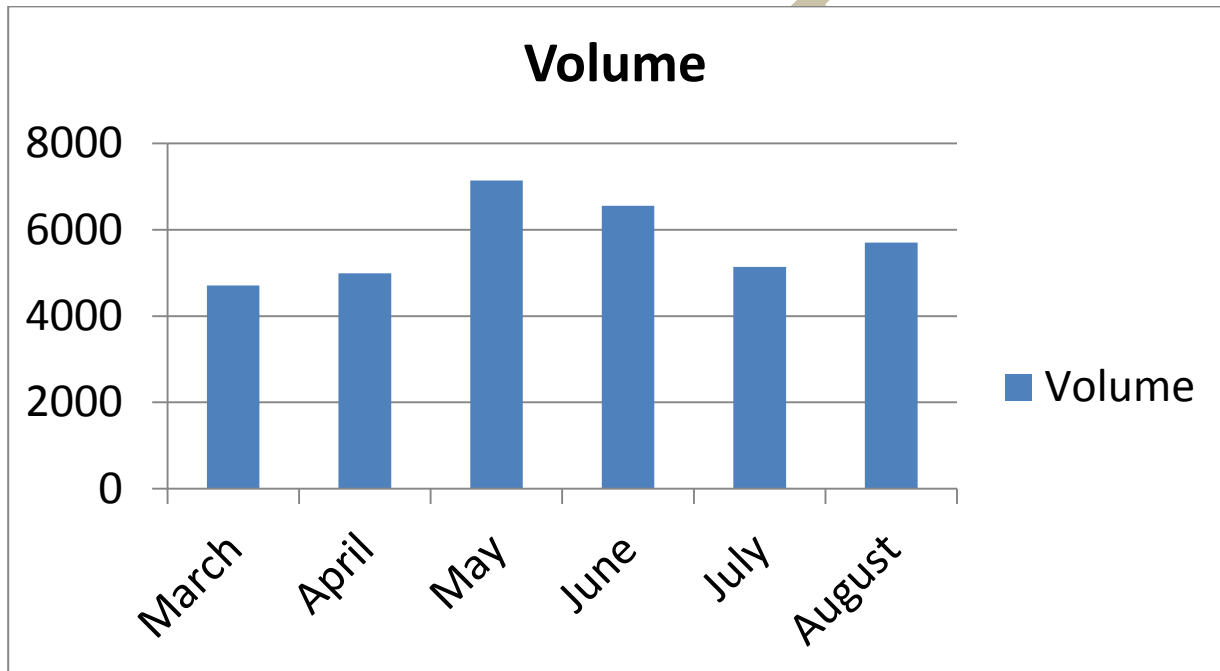
3. Facility Updates – (Presentations were made)

Landfill: John McDonald

- Haz waste volumes remain lower than seasonal.
- Had 2 large non haz soil projects that boosted volume in August and September.

- 19-1-2 b currently nearing capacity.
- Final construction of part c to begin mid-October.
 - ▶ Tie in to Leachate trench.
 - ▶ Removal of segregation berm.
 - ▶ Installation of silt fences.

6 Month Trend Volumes



Incineration: Jim Brown

- Incinerator continues to run very efficiently at good rates.
- Our Mercury testing went very well and received good results.
- Still receiving a lot of very low heat value material.
- On Tuesday September 12/17 we started our annual stack testing.
- This testing consists of different testing over a three day period.
- The purpose of this testing is to ensure we are getting the destruction of the waste to meet our ECA requirements.
- Once Operator obtains samples from the process line one is labeled and placed in a box for Clean Harbors, and the other is placed in glass jugs to make a composite of each test period.
- The samples are kept cool and tops are corked so volatile's to not vaporize off.
- At the end of testing the jugs are taken to the Lab and Ortech collects their samples.

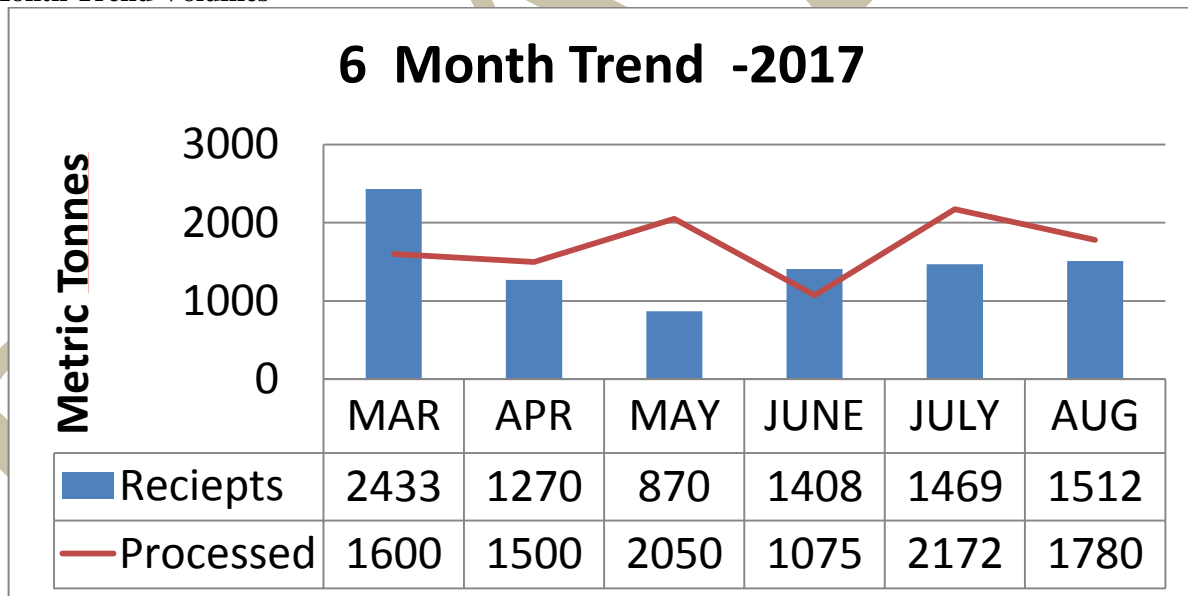
- All testing went well and we were able to maintain high rates to prove the efficiency when we are injecting high flow rates.
- A question was asked if we need a silencer on the stack for the incinerator or not, further noise assessments will determine what actions will be taken. The company has already taken some actions and will continue to measure.

Thermal Desorber: John McDonald

Completed major turnaround

- Volumes have been lower than productions for the past 2 months.
- 800 MT of Material on site. Processing roughly 1800 Tons per month.
- November 15th is projected for us to be out of waste.
- Increase volumes in September due to Valley Turn around activity.
- Processed 28 bins of Catalyst in July/August.
- 9 bins and 128 bags arriving this month of Catalyst waste.

6 Month Trend Volumes



Compliance: Erica Carabott

- Mercury stack test on June 29, 2017.
 - Limit: 50 µg/Rm³
 - Results: 10 µg/Rm³
- SPL source testing conducted August 15, 16 and 17, 2017. Waiting for results. Testing is performed every 2 years.



**COMMUNITY LIAISON & ADVISORY COMMITTEE
MEETING MINUTES**

November 14, 2017

Lambton Facility Board Room

Attendees:

*Brian Murphy
Bill Allingham
Dave Robinson
Jim Elliott
Barry White*

*Neighbour
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Neighbour
Neighbour*

*Erica Carabott
Jim Brown*

*Clean Harbors, Facility Compliance Manager (Chair of meeting)
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*Tracy Kingston
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St. Clair Township Deputy Mayor*

Don Hayes

Ministry of the Environment, Provincial Officer

Regrets:

*Devon Jamieson
John McDonald
Mike Parker
Paul Vandersteen*

*Clean Harbors, Facility Administrator (Secretary)
Clean Harbors, General Manager, Landfill
Clean Harbors, Director of Compliance (Chair)
Neighbour*

Guests:

1. Welcome

- The meeting was called to order at 5:15 pm.

2. Minutes from Last meeting

- Minutes from September 2017 meeting were approved along with June's minutes by Brian Murphy and Barry White

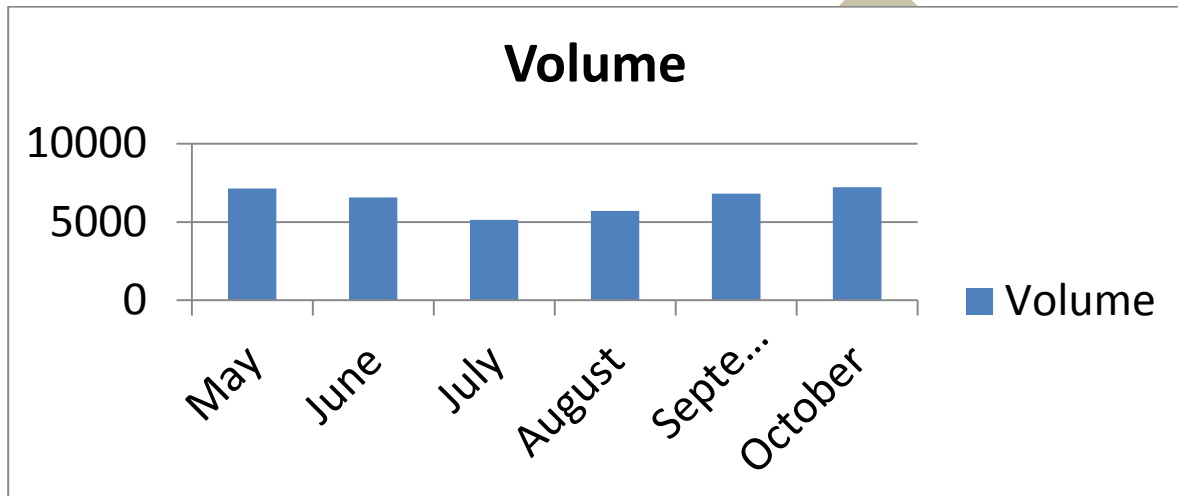
3. Facility Updates – (Presentations were made)

Landfill: John McDonald

- Haz waste volumes remain lower than seasonal.
- Had 3 large non haz soil projects that boosted volume through October

- Seeing an increase in drum volume from TSDf's in Mississauga and Chambly
- 19-1-2 c built and in use
- Construction of 19-1-3 underway for availability in January of 2018

6 Month Trend Volumes



Incineration: Jim Brown

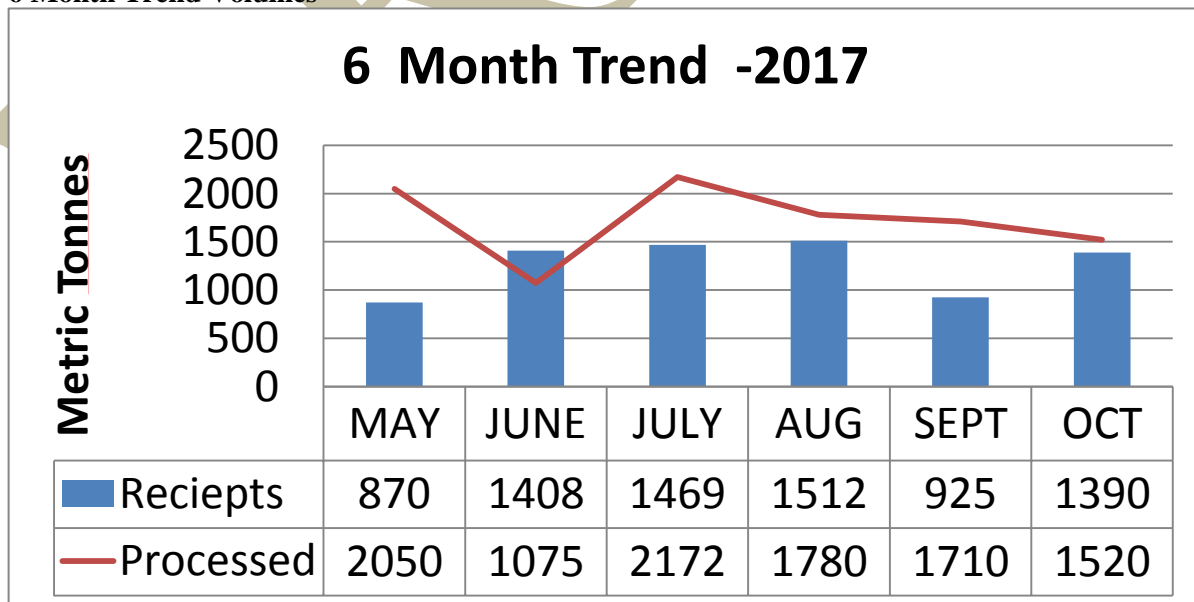
- Incinerator continues to run very efficiently at good rates
- Stack Testing in September went well and we were able to maintain capacity rates those days
- Still receiving a lot of very low heat value material
- We shut the incinerator down on Oct 30 for clean out.
- The first two days were spent cooling and doing all the high pressure washing we could.
- Wednesday Nov 1/17 we brought in a contractor with speciality equipment to break up the slag in the combustion chamber and removed it. This took two days to complete.
- The refractory was then inspected for wear
- Scaffolding gets set up and holes are drilled in the refractory to measure depth
- We consider less than 6" of refractory to be low and we would replace it.
- We had a section approximately 8 feet wide and 10 feet long that was at the 6" mark or just slightly over so opted to remove this section and replace it with new refractory.
- This took about 30 hrs to complete.
- Once the refractory was sprayed in we had to remove the scaffolding, clean out the refractory that was removed and close all hatches.
- The Incinerator was lit on natural gas at 1330 hrs on Saturday Nov 4/17

- To cure the refractory we are allowed to increase the primary temperature 75 degree F each hour until we reach maximum temperature.
- The total cure took us 32 hours to complete.
- At 2130 hrs on Nov 5/17 we started adding liquid waste back into the incinerator.
- During the shutdown we also emptied and inspected 2 of our storage tanks to make sure meet the API standard.
- Cleaned the vent line between the incinerator and TDU to make sure there were no obstructions
- Inspected all baghouse bags.
- Replace 11 bags
- Had all CEM Analyzers inspected and tested by an outside contractor

Thermal Desorber: John McDonald

- Volumes have been lower than production for the past 2 months
- 700 MT of Material on site
- Volume trend showing a slight improvement through Q4 with a refinery win in Ohio.
- Production Lower due to wet feed and
 - Scheduled maintenance.
- Small number of bins processed in Sept and Oct
- 25 bins scheduled to arrive this month
- 205 bins on schedule for December
- Able to process 4 bins per day.

6 Month Trend Volumes



Compliance: Erica Carabott

Open Discussion / New Business:

- Thallium waste approval submission, awaiting comment and review.
- There was an open discussion regarding the Gravel pile from St Mary's. Don explained to the committee that the material sitting where it is during the investigation is not causing any issues.
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Next meeting will be held on Tuesday February 20, 2018 at 5:00pm at Clean Harbors.

Please contact Devon Jamieson @ 519-864-3833 or e mail @ jamieson.devon@cleanharbors.com with any questions, comments or concerns regarding the minutes prior to the next meeting.

DRAFT