#### MINUTES Peterborough County/City Waste Management Site Liaison Committee Meeting Tuesday, July 7, 2009 at 7 p.m. at Stewart Hall

In attendance:

Committee Members:	Reeve Dave Nelson - Chairman, Roy Craft, Steve St. Jean, Councillor Paul Heath
Staff Members:	Chris Bradley, Sherry Arcaro - County of Peterborough Melanie Kawalec, Craig Simmons - City of Peterborough
General Public:	Nancy De Guerre, Ed Haass
Consultants:	Jorge Costa, Tom McIelwain, Chris Visser – Golder & Associates Joe Ovcjak – UEM Steve Ash – Jagger Hims

Chairman Reeve Nelson called the meeting to order at 7:08 p.m.

Introductions were held.

#### 1) Approval of Minutes

Moved by: Roy Craft

Seconded by: Steve St Jean

"That the Site Liaison Committee minutes of January 13, 2009 be approved as presented." Carried.

#### 2) Business Arising from Minutes

Odour issues were discussed but will be updated in the Consultant presentations.

#### 3) 2008 Monitoring Report Overview - Joe Ovcjak

Mr. Ovcjak provided a verbal presentation on 2008 Annual Monitoring Report. A copy of the presentation is attached to the minutes. Questions and discussion of the operations of the sites followed the presentation.

Moved by: Steve St Jean Seconded by: Roy Craft

"That the presentation by UEM on the 2008 Monitoring Report be accepted as presented." Carried.

#### 4) 2008 Annual Monitoring Report Comments – Jorge Costa & Tom Mclelwain

Mr. Costa noted that Golder had reviewed the Draft 2008 Annual Monitoring Report, providing comments to UEM prior to submission to the Ministry of the Environment.

He explained that the report is consistent with past experiences and operations of the site.

Mr. Mclelwain commented on the ground and surface water data, noting that he has been looking at the data for the site for over 20 years, with zero changes in the site for the last 18 years. The site itself and the neighbourhood have had no change.

He noted that the site is well operated, with surface and ground water sampled appropriately for the site.

Moved by: Roy Craft

Seconded by: Steve St Jean

"That the verbal report by Golder and Associates on the 2008 Monitoring Report be received for information."

Carried.

#### 5) Peterborough Biosolids Options Study – Sherry Arcaro

Ms. Arcaro gave an update on the Biosolids Options Study. She noted that the volume of biosolids represent 10% of the total waste received each year. A copy of the biosolids options study update is attached to the minutes.

Following discussion, Reeve Nelson requested that biosolids data be forwarded to Ed Haass for land application consideration.

Moved by: Roy Craft

Seconded by: Steve St Jean

"That the verbal report on biosolids options study update be received for information."

Carried.

#### 6) Landfill Site Inspection – Jorge Costa

Mr. Costa provided an update on his landfill site inspection conducted earlier in the day. He noted that operations of the site are consistent, noting recent regrading and seeding areas due to maintenance. He noted 3 areas of landfill gas odour: i) along the edge of Cell 1 West B from the underground stone that is still exposed at the outer edge of the cell, ii) the manhole at the southeast corner which may need a new seal, and iii) the toe of the landfill between the entrance and the pumping station, there is a 6 inch pipe which is open.

The second odour he noted on site was from biosolids. The placement of biosolids, due to the high moisture contents, acts like a sponge and retains any new moisture, reactivating the smell. He suggested that the site attempt to manage traffic tracking the biosolids.

Mr. Costa advised the Committee that Chris Visser would be the new representative on behalf of Golder Consultants.

#### Moved by: Steve St Jean Seconded by: Roy Craft

"That the verbal report on the Landfill Site Inspections from Mr. Costa be received for information."

Carried.

#### 7) Waste Management Facility Update – Melanie Kawalec

Ms. Kawalec provided an update on the Bensfort Landfill Facility. A copy of the written report is attached to the minutes.

Moved by: Roy Craft Seconded by: Steve St Jean

"That the Report #7 providing an update on the Waste Management Facility be received for information."

Carried.

#### 8) Consulting Needs of the Committee – M Kawalec

Reeve Nelson advised the Committee that he will work with the City and County to confirm the consulting need for the Committee.

#### 9) New Business – Melanie Kawalec

Melanie Kawalec gave a verbal update on the status private well monitoring program. As of 2009, most of the obligations for testing of private wells have now lapse, as the time required in the original agreement have expired. City and County staff suggested however that the well monitoring program continue on based on the same sampling schedule.

#### 10) Next Meeting

The next SLC meeting is scheduled for January 19, 2010 at 7:00 pm General Committee Room, City Hall.

#### 11) Adjournment

Moved by: Steve St Jean

Seconded by: Roy Craft

"That the meeting now adjourn."

Carried.

The meeting adjourned at 8:27 p.m.



# **Report 7**

TO: Site Liaison Committee

FROM: Melanie Kawalec, Manager of Waste Management

DATE: July 7, 2009

SUBJECT: Waste Management Facility Update

#### **Operations Update**

- shingles now stockpiled on site, ground & used for alternative cover material vs.exported off site.
- Landfill Odour Survey was completed May 22, 2009 which surveyed the SFA for methane. This report will be used to guide the 2009 site maintenance work plan.
- Applied and received another license to cull seagulls for bird control in 2009.
- Landfill Gas Utilization project formalized, permits and approvals underway with the OPA and rezoning public meeting scheduled for August 11, 2009.
- Additional gas wells to be installed in SFA in 2010 and 2011.
- fall 2009 will include seep repairs and hydro seeding as required, with additional landscaping.

#### Facility Complaints: January 2009 - June 2009

- Odour Complaint: January 28, 2009 from Mike Taylor who lives on Cloverdale Line
- **Results:** Waste Operations Coordinator spoke with Mr. Taylor about the landfill has had stronger than usual odours lately due to the high water table which has flooded some of the gas wells, preventing the flare to draw methane gas from these wells. February 10, 2009, the Coordinator installed a 4-inch vacuum line in MH15 to the gas header line. The draw on this manhole has eliminated the odour in the area for about 100 to 150 feet north and south.
- Litter Complaint: April 3, 2009 from Chris Johnston, MOE
- Results: Waste Operations Coordinator confirmed that litter pickup along Bensfort Road was scheduled for Monday, April 6<sup>th</sup>. The ditch line had been cleaned up last week but due to the high winds lately it seems to be ongoing at least once a week for the past three weeks.
- Odour Complaint: April 27, 2009 from Roy Craft
- **Results:** The Waste Operations Coordinator returned his call and explained that the odour appeared to be due to the placement of Biosolids in the fill area. The Coordinator also agreed to check out the site to ensure that everything else was in order.

#### Offenses Summary: January 2009 – June 2009

January 1 to June 30, 2008 – 275 untarped loads of 558 total offenses January 1 to June 30, 2009 – 487 untarped loads of 671 total offenses

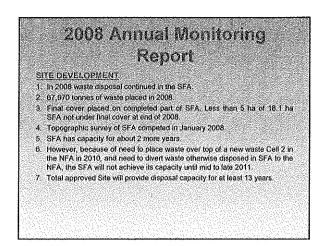
#### Centralized Composting Facility

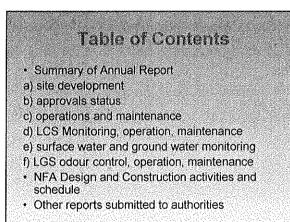
- Project stalled due to odour modeling study and Certification of Approval application pending.
- Official Plan Amendment and rezoning applications on hold.
- City Wide Organics on hold until composting site is operational and budget approved, anticipate 2011.

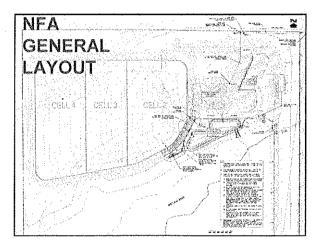
#### Landfill Properties Update

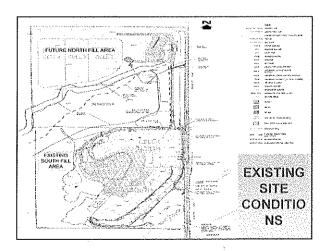
- Farm at 1376 Cloverdale Line, western side of the road only, sold
- 1333 Bensfort Road under renovation; to be offered for rent by September 2009
- Of the 9 houses: 8 are rented, 1 to be rented by September, and 1 remains vacant.
- All farmland is leased for crops or pasture.











#### 2008 Annual Monitoring Report OVAL STATUS On May 6, 2009 C of A was amended to (a) remove 19 ha parcel alon

- APPROVAL STATUS 1 On May 6, 2009 C of A was amended to (a) remove 19 ha parcel along Crowley Rd from Stel. (b) remove Condition 25.8 that deals with status of search for long-term landlill (c) adjust LCS cleaning and video inspection inequency to annual from semi annual 2 In June 2009 Permit to take water was received to permit NFA construction
  - dewatering Application for 5: 53 OWRA approval submitted for SWM pond, sile drainage. OWRA approval for teachate management system for the NFA submitted separately. Construction expected to start in September 2009. Application for permit to construct stormwater system for NFA was submitted

3.

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Separately, Construction expected to start in separation 2009. Application for permit to construct storymeater system for NFA was submitted to Otonabee Region Conservation Authority in 2009 Recently determined that: SFA LCS also needs C of A under OWRA as advised by MOE. Will be submitted under separate cover and will not delay construction of NFA LCS and SWMS previded MOE satisfied with design and supporting documents.

## 2008 Annual Monitoring Report

OPERATIONS AND MAINTENANCE

 No violations of C of A conditions noted during inspections
 295 violation notices issued in 2008 by Staff related to untarped loads

3. Permit to scare or kill guils renewed and expires Dec. 31, 2009.

#### LCS MONITORING, OPERATION AND MAINTENANCE

- 1. Volume of leachate and GW removed in 2008 was 104,527 cu m.
- In next few years, leachate generation will decline in SFA as it is closed and final cover placement complete.
- However, when NFA opens, leachate quantities will increase.

## 2008 Annual Monitoring Report

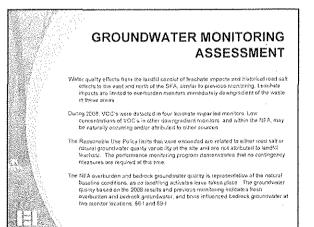
LGS OPERATION AND MAINTENANCE

- Gas probe thonitoring shows no evidence of gas migration beyond property boundary.
- New sections of pipe installed to connect to LCS manholes
- Flare controls were maintained and replaced (thermocouples etc) Vent pipes cleaned, gas wells adjusted
- · Flame arrestor maintained, flow meter calibrated
- Approx 5,730,000 cu m of gas flared in 2008 (15,700 cu m/day)
- Landfill surface monitoring in 2008 identified odour areas mainly from LCS manholes — connections to LCS made as recommended

## 2008 Annual Monitoring

LCS MONITORING, OPERATIONEND MAINTENANCE 4 City's Sever Use By Law parameters are used to evaluate

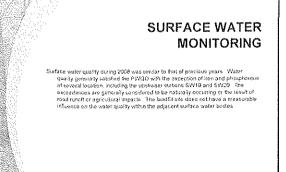
- potential impact of leachate on WWTP.
- The 2008 leachate quality generally meets. Sewer Use By-law criteria with the exception of TKN during both sampling events. Historically, TKN periodically exceeds By-law criteria. One sample of nonyl-Phenols was marginally over the by-law limit.
  Leachate loading of BOD and TSS on WWTP is generally low and
  - represents only a small portion of plant capacity. Ammonia and TKN represent 7 to 16% of influent load to WWTP respectively. Species of VOC xylene in the plant influent appear to
- primarily originate from the leachate. 8. Future leachate sampling / comparison to By-law recommended

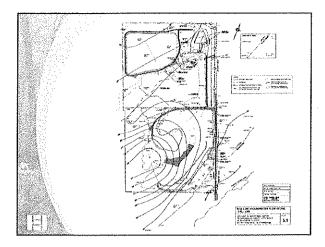


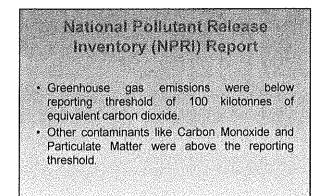
## 2008 Annual Monitoring

#### LCS MONITORING, OPER RECEIPTION MAINTENANCE

- 9 In 2008 leachate seeps on east slope of SFA were repaired.
- .10 LCS was flushed and inspected and is generally clear, structurally sound and conveying leachate as designed.
- 11 Forcemain was pressure tested and found satisfactory
- 12. Pump station, flow meters, pumps stc were inspected and maintained as required and are functioning as designed







#### NFA CONSTRUCTION UTILITIES CONTRACT

- Stormwater Management Facility including pond, ditches, rip rap, control chambers, emergency overflow spillway, inlet and outlet piping, staff gauge and associated swales.

- Print of the second sec
- Access roads, sill fence, excavation, fine grading, etc.
- Contract drawings and specifications completed in draft and under review by City
- Construction to start once all approvals are in place, contractor retained (fall 2009)

## LANDFILL GAS COLLECTION SYSTEM REPORT

- Ontario Regulations (O. Reg.) 232/98 and 347 amendments require landfills with greater than 1.5 million m<sup>3</sup> of waste capacity to implement a LGS and to submit a report to the MOE by June 30, 2009 The SFA will reach its capacity by late 2011;
- Up to 22 new vertical gas wells will be installed in two
- stages at the SFA. The future NFA will incorporate a LGS that will be
- progressively installed with development of the NFA. A landfill gas utilization facility will be constructed in mid to late 2010.

## Supporting Documents

- NFA Stormwater Management Design Brief dated April 17, 2009 for OWRA and ORCA approval
- NFA Design Brief for Leachate Management System dated June. 2009 for OWRA approval National Pollution Release Inventory (NPRI) Report June 1, 2009 tracks release of GHG emissions and dust to atmosphere.
- 4
- Landhill Gas Collection System Report (June 30, 2009) for existing SFA GCS and proposed additional wells for SFA to be installed upon closure of SFA as well as proposed NFA GCS (in concept only)
- Closure Plan for SFA to follow this summer
- Supporting documents for OWRA approval for SFA LCS to follow Other reporting and communications in accordance with regulatory bodies as required

### SCHEDULE OF FUTURE ACTIVITIES

- Construction of PS and pond at the NFA in fall 2009 (Tender T-36-09)
- Construct Cell 2 in 2010
- New gas wells in SFA in 2010 for areas already under final cover
- More new wells in SFA after entire SFA under final cover in 2011
- Closure report for SFA in fall 2009
- Continued monitoring and site operations

#### **Biosolids Options Study Update**

In early 2009 the Waste Mgmt Steering Committee approved a Biosolids Options Study Project. The purpose of the study is to provide WMC with a final report consisting of potential options for the handling of the biosolids cake currently being produced by the City WWTF and being disposed of at the landfill.

The study committee consists of city staff, county staff, a WMC appointed representative and the consulting firm of RV Anderson.

The committee has provided WMC with 2 technical memorandums. The first of which included a long list of potential options for the management of the biosolids cake, and the second which narrowed down the options to be researched based on several criteria including: public safety, cost, technical merit and sustainability of the option.

The next steps for the study committee include site visits to a couple of facilities that currently manage biosolids in a manner other than landfill, more research on the short list and a report back to WMC in early November. Following the WMC committee meeting a Public Info Centre will be held which will present the Final Report which will include recommendations that would then go forward to be included in a formal Environmental Assessment process and all the research and scrutiny that process entails.

While it is the intent of the committee to find an alternative to landfilling of the biosolids in a timely manner, there are several levels of approvals that any recommended alternative must go through. More information on the process will be provided at the PIC in November.

Are there any questions or comments that this committee would like me to take back to the Biosolids Options Study Committee?