

# Southgate OMRC

## Public Advisory Committee

### Minutes from PAC Meeting #15

LYSTEK SOUTHGATE ORGANIC MATERIALS RECOVERY CENTRE

**DATE:** Thursday, December 19, 2013

**TIME:** 7 pm

**LOCATION:** Southgate OMRC Facility – Eco Park

#### ATTENDEES:

Steve Redmond – Chair

Mary Fowler, Grant Preston, Sarah Mason, Karen Cheeseman

Mike Dougherty - Lystek

Regrets: Guy Treadwell, Glen Irwin

#### AGENDA TOPICS:

Item	Description	Action By
1.	<b>Review of previous meeting minutes</b>	Accepted by consent via email within two weeks of last meeting
2.	<b>Approval of Agenda</b>	Moved by Karen Cheeseman Seconded by Mary Fowler
3.	<b>Public and Media Attendance – Re: Question Period and Code of Conduct</b>	Steve
	<b>Operations Update (Including Monitoring Reports)</b> <i>Operations</i> Lystek has increased the volume of incoming material as follows: Halton: 72 cubic meters (2 trucks per day) Toronto: 144 – 216 cubic metres (2 - 4 trucks/day) <b>Total Cake: 216 – 288 cubic metres/day</b> Liquid – the facility is receiving 2-4 trucks per day of liquid material from Owen Sound, Walkerton, Meaford, Arthur, and Orangeville. <b>Total Liquid: 144 – 288 cubic metres/day.</b> Some of this liquid is excess material that the local utilities were not able to land apply within the	Mike

	<p>NASM timeline and is being further processed at Lystek. Saugeen Agri (based in Centre Wellington) is trucking the liquid material in from various facilities to the Southgate OMRC. Entec is trucking material from Orangeville. At this time the Southgate OMRC is not receiving any material from Midland or Waterloo. In total there are about 6 – 10 loads of incoming material arriving at the facility each day.</p> <p>Currently, there are two reactors operating and Lystek is planning to add a third reactor early in 2014 to process the increasing volumes of incoming material.</p> <p>The facility has been running relatively smoothly with no delays or interruptions in operations.</p> <p>Lystek is pursuing the option to purchase the additional 12 acres adjacent to their property in the Southgate Eco-Park. The plan is to build the second lagoon in a slightly different location than originally planned to maintain a greater tree buffer between the facility and the adjacent properties.</p> <p><b>New Local Employees:</b> Since the October meeting Lystek has hired three more local individuals.</p> <p>Barry Stacey – Senior Operator  Bruce Martin – Operations Assistant  Sean Johnston – Operator</p> <p>There are currently 7 employees at the Southgate facility. All 7 employees are local to the area.</p> <p>Lystek is currently running two and a half shifts, 5 days per week. The first shift begins at 3-6 am to start up the reactors and process any material remaining in the facility from the previous day. Incoming trucks are received after 6:00 am. The facility processes until approximately 10-12 pm depending on the amount of material received on that day.</p> <p>Trucks are still regularly travelling up Country Rd 8 and into the facility on Country Rd 9.</p>	
	<p><b>Land Application Update</b></p> <p>Approximately 5,500 cubic meters of processed material was applied to agriculture land this fall through approved NASM Plans by Saugeen Agri. Five farms east of Dundalk received the product</p>	<p>Mike/Steve</p>

	<p>during the month of November. Four of these farms are local and the fifth was slightly farther away. There were a couple of other NASM plans approved and ready to receive material but the wet weather and early winter prevented any further applications in 2013.</p> <p>Saugeen Agri is utilizing a disk injection system which provides low disturbance to the fields while injecting the liquid material below the surface to minimize odours and maximize nutrient retention.</p> <p>The farms that received material in Fall 2013 are intended to be planted to corn in Spring 2014.</p>	
	<p><b>Review of NASM – Post Application Report</b></p> <p>Steve led a discussion on a NASM land application schedule and post application report. The PAC reviewed the NASM plan application schedule from one of the five farms. The application met all of the regulatory requirements for NASM.</p>	<p>Mike/ Steve</p>
	<p><b>Material Analysis (Monitoring)</b></p> <p>Analysis of the incoming and outgoing material levels indicates that the materials are relatively consistent.</p> <p>The solid content of the processed product is increasing as Lystek is reaching optimal technical operations of the facility.</p> <p>All pathogen levels in finished product are below detectable levels and thus are well below the regulated limits.</p> <p>Attached is an analysis summary of the 2013 third quarter stored product.</p> <p>All microconstituents are well below maximum allowable limits both in the average analysis and any individual sample concentration. This indicates that the incoming material is consistent and testing at the sewage treatment plant is being conducted properly.</p> <p>Copper and zinc are at the highest relative level however these levels are below regulated limits. Elevated levels are due to copper water pipes in residences and zinc in stainless steel appliances.</p> <p>All pathogens were below detectable levels.</p>	

	<p><b>Community Complaints</b></p> <p>There was one complaint that was directed to one of the council members regarding trucks travelling too fast near Proton Station. Lystek returned an apology to the councillor through email to be forwarded on to the resident. Additionally, Lystek contacted the truck drivers and have reminded them to maintain posted speed limits.</p> <p>No PAC members have received any complaints.</p>	All
	<p><b>New Business:</b></p> <p>Christmas Baking was enjoyed by all PAC members</p>	
	<p><b>Next meeting</b> is planned for Tuesday, March 4 2014, 7 pm in the Southgate Organic Materials Recovery Centre boardroom.</p>	
	<p><b>Adjourn Meeting</b></p>	<p>Moved by Grant Preston Seconded by Mary Fowler</p>

*The Southgate OMRC PAC is now a condition of the MOE's Environmental Compliance Approval to create an open flow of information to local residents about the biosolids processing centre in Dundalk, Ontario. Members of the PAC meet on a bi-monthly basis. Currently, there are five volunteer community members and a chairperson on the committee. Members of the PAC include Grant Preston a retired farmer and former Reeve of Proton Twp., Glen Irwin, a local business person and Southgate Twp. councillor, Mary Fowler, a freelance reporter and former editor of The Dundalk Herald, Sarah Mason, a local university student and Karen Cheeseman, a local graphic artist. The committee is chaired by Stephen Redmond. He is a certified crop advisor, a former Environmental Specialist with OMAFRA and former resident of Dundalk.*

Stored Product Analysis Form

Lystek Southgate Organic Materials Recovery Centre (OMRC)  
191 Eco Park Way, Dundalk, Ontario



Constituent	July 25 <sup>a</sup>	Aug 6 <sup>a</sup>	Aug 27 <sup>a</sup>	Sept 9 <sup>b</sup>	Sept 30 <sup>b</sup>	Yearly Average	Maximum Allowable Metal Concentration <sup>c</sup>	Units
<b>Metals</b>								
Arsenic	5.1	3.8	4.1	2.30	2.00	3.5	170	mg/kg
Cadmium	1.3	1.2	1.3	2.23	2.13	1.6	34	mg/kg
Chromium	91	140	86	53.00	102.90	95	2,800	mg/kg
Cobalt	5.5	5.5	4.6	5.23	5.61	5.3	340	mg/kg
Copper	920	860	1000	998.70	1058.70	967	1,700	mg/kg
Lead	57	44	50	49.64	60.10	52	1,100	mg/kg
Molybdenum	6.2	6.8	7.5	7.57	4.27	6.5	94	mg/kg
Nickel	36	46	31	40.43	39.05	38	420	mg/kg
Selenium	6.2	5.0	5.8	4.30	3.10	4.9	34	mg/kg
Zinc	840	860	900	911.70	964.20	895	4,200	mg/kg
Mercury	0.74	0.85	0.89	0.46	0.47	0.68	11	mg/kg
<b>Nutrients and Physical Properties</b>								
Total Moisture	84	93	89	90.58	88.83	89	n/a	%
Total Organic Carbon	220,000	200,000	220,000	288,900	n/a	232,225	n/a	mg/kg
Total Kjeldahl Nitrogen	40000	47,900	57,900	47,500	43,500	47,360	n/a	mg/kg
Ammonium - N	21,000	34,200	22,600	24,781.32	20,905.82	24,697	n/a	mg/kg
Nitrate and Nitrite-N	ND	ND	ND	2.26	3.58	2.92	n/a	mg/kg
Total Phosphorus	25,000	25,000	30,000	30,000	30,900	28,180	n/a	mg/kg
Total Potassium	16,000	26,000	20,000	25,800	25,800	22,720	n/a	mg/kg
<b>Pathogens</b>								
E.coli	<10	<10	<10	<10	<10		n/a	MPN/g
Fecal Coliforms	<1.8	<1.8	<1.8	<1.8	<1.8		1,000	MPN/g
Salmonella	neg	neg	neg	neg	neg		<1	CFU/25g

<sup>a</sup> Analysis completed by Maxxam Analytics International Corporation

<sup>b</sup> Analysis completed by A&L Canada Laboratories Inc.

<sup>c</sup> As per Section 14.2 of Environmental Compliance Approval No. 8850-8V6S7Z

Note - Each sample consists of a minimum of 1 grab sample.

n/a - not available

ND - Not detected

neg - negative