

CMC Virtual Meeting Minutes
6:30 p.m. Thursday, January 18, 2024

CMC Members Present: Linda MacKay, Councillor Iona Stoddart, Tom Robertson, Andrew Giles, John Cascadden and Peter Lund

Others Present: Betsy Chambers, Reg Rankin, Jason Timms, Scott Morash (all with CMC) Andrew Philopoulos (HRM) and Steve Copp (Mirror Nova Scotia)

Special Speaker: Peter Vinall, CEO, accompanied by Kevin Cameron, VP Sales and Government Relations, both of Sustane Technologies Inc.

1.0 Moved by Peter Lund, seconded by John Cascadden that the agenda be approved as circulated with the addition of a hyphen inserted between the dates listed in agenda item 7.0. Carried.

2. 0 With the permission of the Chair, Reg Rankin, the CMC Liaison Assistant, introduced guest speaker, Peter Vinall, the CEO and Co-founder of Sustane Technologies Inc. With the assistance of his VP Sales and Government Relations, Mr. Vinall made a presentation on the company's operations and activities. Sustane uses hydrolysis to make clean fuel from waste. The company's process claims to recover up to 90 per cent of material headed to landfills; 20 per cent of the waste is reputed to be plastic, which can be converted into fuels of which three-quarters can be sold a diesel. The process could eliminate methane in landfills. For an average Canadian landfill that would amount to a reduction of two–three tonnes of carbon dioxide per tonne of garbage diverted to a Sustane facility — roughly the equivalent of the carbon dioxide output of 50,000 motor vehicles. Sustane has plans to build multiple plants across Canada and North America. It is possible, he said, to recycle garbage at lesser cost than putting it in a landfill. Questions were posed by Peter Lund, and Tom Robertson. The Chair and Mr. Rankin thanked Mr. Vinall for his presentation.

3.0 Andrew Giles moved, seconded by Tom Robertson, that the minutes of Oct. 18, 2023 be approved, subject to a change requested by Peter Lund, that a repetition of a name listed in the members present be removed. Motion carried.

4.0 Scott Morash, CMC's Environment Consultant, provided an update based on the latest quarterly performance report and his findings on community-related odour complaints. As an aside, he cautioned that there were temperature-limiting uses of the diesel currently produced by Sustane Technology. Turning to the 10 per cent organic waste target, he said Otter Lake landfill would have difficulty reaching it. The August number was "fantastic" he

said; it was a little above seven per cent, but the November figure was near 14 per cent. He blamed the wet weather preceded by a dry period for creating conditions that facilitated the release of odour-causing methane gas from the landfill. Since late October, after more venting and methane collection were instituted at the landfill site, he was unaware of further odour complaints.

John Cascadden asked for all the audits to be posted on the CMC website and the CMC Liaison Assistant agreed to follow through. However Andrew Philopoulos explained the documents would need to be vetted first by HRM for privacy considerations. Councillor Stoddard asked if the CMC also needed HRM's permission to post the audits on CMC's website, but Mr. Philopoulos explained that would not be a problem as long as the reports had been reviewed for privacy concerns. Peter Lund asked if the closed or active cells had caused the odour problem and he was told it was the active cells.

5.0 Andrew Giles, one of the seven CMC members whose presence was required to maintain quorum, indicated that he had to leave shortly to attend other business. This was brought to the attention of the Chair and a motion to deal immediately with the high priority budget item on the agenda was moved by John Cascadden and seconded by Iona Stoddard. Carried.

6.0 Andrew Giles moved and John Cascadden seconded the approval of the proposed budget for 2024-2025 as presented by Reg Rankin. Carried.

John Cascadden moved and Andrew Giles seconded a motion to approve payment for the \$125.00 annual storage fee for archived files. Carried.

7.0 A report from the CMC's Liaison's Assistant proposed greater decision-making efficiency by including the Chair as one of the three members that compose the Communications Committee. John Cascadden pointed out the move would cut the number of CMC members overseeing communications and thereby reduce the CMC's oversight. Peter Lund agreed. In light of the concerns raised, the CMC Liaison Assistant said the current makeup of the communications committee should be unchanged. Tom Robertson objected to the proposed deadlines that would be placed on responses to requests for communications approvals, as outlined in the draft communications committee guidelines. The Liaison Assistant agreed to revise the draft. John Cascadden asked that any new version be circulated among the Communications Committee members for consensus before it is brought forward for decision.

8.0 The Liaison Assistant proposed that the Item 6.0 concerning the CMC Technical Advisory Group be deferred in light of the imminent departure of Andrew Giles.

9.0 Motion by Andrew Giles to adjourn the meeting and reconvene in camera. The Community Monitoring Committee adjourned.

CMC Technical Advisory Group – TERMS OF REFERENCE

Date: January 18, 2024

1.1

PURPOSE

The CMC Technical Advisory Group, when called upon by either the CMC Environment Consultant (CEC), the CMC Administrator or the CMC Chair, to respond to the CEC with their commentary to questions and observations put to them by the CEC.

1.2

Authorities, if any, provided to this CMC Advisory Group

There is **NO** authorities provided to this CMC Advisory Group. Its sole purpose is to provide any and all opinions , on any matter, as solicited from the CMC Environment Consultant for his or her consideration.

1.3

COMPOSITION

The CMC Technical Committee shall be comprised of three CMC members appointed from among the CMC Members with preferably two members possessing engineering backgrounds. And at least one member of this Committee from among the four CMC Members appointed by the HRM. The Chair shall be elected from among the Committee Members.

The term of membership on this Committee shall be two years though eligible for re-appointment.

The CMC Chair, the CMC liaison Assistant and the CMC Liaison Assistant is entitled to attend meetings of this Committee without voting rights. Any other staff member from CMC, Mirror or HRM can attend at the invitation of the Committee.

Quarterly Performance Audits conducted by Strum Environmental on randomly selected solid waste at Otter Lake Landfill

Compostable waste as a percentage of total weight

The NS Department of Environment & Climate Change approved the Updated Compliance Plan with targets for Otter Lake Landfill by which compostable waste by mass shall not exceed 10% by March 31, 2026. The targets are: March 31, 2024 — 11.61% March 31, 2025—10.81% March 31, 2026—10%.

Collection area	2022- before shutdown of FEP/WSF					Average
	Feb'22 Audit	May'22 Audit	Aug'22 Audit	Nov'22 Audit		
Halifax, Spryfield	N/A	15.40%	13.10%	18.60%	15.70%	
Dartmouth	N/A	10.44%	20.50%	16.70%	15.88%	
Bedford, Hammonds Plains, Pockwock	N/A	3.86%	19.30%	14.80%	12.65%	
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	N/A	3.26%	12.40%	11.60%	9.09%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	N/A	6.34%	12.00%	14.00%	10.78%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	N/A	3.39%	5.90%	15.60%	8.30%	
Porter's Lake, Lawrencetown, Chezzetcook, Lake Echo, Prestons area	N/A	3.96%	7.80%	17.80%	9.85%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	N/A	6.90%	16.40%	8.00%	10.43%	
Condos	N/A	10.38%	13.20%	12.20%	11.93%	
Total Compostable Averages		7.10%	13.40%	14.37%	11.62%	

Note: Red colour Average highlight indicates in excess of Approval mandated 10%.

Collection area	2023 - after shutdown of FEP/WSF					Average
	Feb'23 Audit	May'23 Audit	Aug'23 Audit	Nov'23 Audit		
Halifax, Spryfield	9.02%	13.70%	4.10%	9.67%	9.12%	
Dartmouth	8.04%	10.10%	4.27%	14.58%	9.25%	
Bedford, Hammonds Plains, Pockwock	17.45%	15.90%	5.08%	18.72%	14.29%	
Beechville-Timberlea, Herring Cove, Prospect, Peggy's Cove, St. Margarets Bay	9.90%	26.50%	9.63%	10.79%	14.21%	
Sackville, Beaverbank, Fall River, Waverley, Wellington, Dutch Settlement	13.65%	6.30%	4.33%	13.00%	9.32%	
Cole Harbour, Westphal, Cherry Brook, Eastern Passage, Cow Bay area	12.66%	6.70%	4.40%	8.71%	8.12%	
Porter's Lake, Lawrencetown, Chezzetcook, Lake Echo, Prestons area	5.95%	5.00%	6.26%	16.49%	8.43%	
Middle Musq., Elderbank, Musq. Harbour, Sheet Harbour, Eastern Shore	10.87%	5.40%	12.47%	7.23%	8.99%	
Condos	19.01%	39.30%	18.52%	17.98%	23.70%	
Total Compostable Averages	11.84%	14.32%	7.67%	13.02%	11.71%	

2023 difference from 2022

2023 difference from 2022	
Collection area	Average Difference
1	-6.58%
2	-6.63%
3	1.63%
4	5.12%
5	-1.46%
6	-0.18%
7	-1.43%
8	-1.44%
9	11.78%
Condos	0.09%
Total Compostable	

2023	
Collection area	Average
1	9.12%
2	9.25%
3	14.29%
4	14.21%
5	9.32%
6	8.12%
7	8.43%
8	8.99%
9	23.70%
Condos	11.71%
Total Compostable	

2022	
Collection area	Average
1	15.70%
2	15.88%
3	12.65%
4	9.09%
5	10.78%
6	8.30%
7	9.85%
8	10.43%
9	11.93%
Condos	11.62%
Total Compostable	

Otter Lake Landfill Odour Complaints 2023

Year	Date	Reported By	Location	Wind	Temp	Comments
2023	Jan 27	Anon to Otter Lake	Goodwood	W-NW light	-2	No odour detected at Landfill. Wind direction could indicate Landfill source.
	Feb. 9	Anon to Otter Lake	Not given	W-NW moderate	-4	No odours on site. Location not given.
	June 10	Anon to Otter Lake	1594 St. Margarets Bay Rd.	NW moderate	15	No onsite odours.
	Aug 15	Anon to Otter Lake	Timberlea Sobeys	SW light	21	No onsite odour.
	Sept 3		Tuscany Run, Timberlea	WSW light		No onsite odour, smoke odour noted near Brunello
	Sept 18	Scott Guthrie to HRM	Brunello	SW moderate	14	Odour detected at periphery and Brunello
	Sept 18	Asst. Manager, Sobeys	Sobeys	SW moderate	14	
	Sept 28	Anon to Otter lake	Goodwood	W light	13	No onsite odours but possibly from site
	Sept 28	Anon to Otter Lake	Intersection of Prospect Rd. and St. MB Rd.	W Light	13	Likely from Ragged Lake Compost facility.
	Oct 3	R. Rankin to HRM	Sobeys			Moderate odour at Landfill gate. Likely Landfill source.

2023	Date	Reported by	Location	Wind	Temp	Comments
	Oct 4	Mirror	Maple Drive	SW light	20	Moderate-strong odours at Landfill. Work underway to install additional gas collection equipment.
	Oct 5	Mirror	Maple Drive	SW light	16	Same as above.
	Oct 6	Mirror	St. Margarets Bay Rd	SW light	15	Same as above
	Oct 10	Mirror	Tuscany Run	SW v. light	10	Same as above.

*Front End Processor/Waste Sorting Facility bypassed as of December 2022