



Agenda
The Township of Cavan Monaghan
Sustainability Advisory Committee Meeting

Friday, November 1, 2024

1:00 p.m.

Council Chambers - Hybrid Room

Members in attendance are asked to please turn off all electronic devices during the Meeting. Any special needs requirements pertaining to accessibility may be directed to the Clerk's Office prior to the meeting. Please be reminded meeting are livestreamed and recorded. Members may be participating remotely.

Pages

1. Call to Order

2. Land Acknowledgement

We respectfully acknowledge that the Township of Cavan Monaghan is located on the Treaty 20 Michi Saagiig territory, in the traditional territory of the Michi Saagiig Anishnaabeg. We offer our gratitude to First Nations for their care for and teachings about these lands. May we honour these teachings.

3. Approval of the Agenda

4. Disclosure of Pecuniary Interest and the General Nature Thereof

5. Minutes

5.1 Minutes of the meeting held September 20, 2024

2 - 5

6. Presentations

6.1 Norm Lamothe - Soil Regeneration and Agricultural Biochar Processing

6 - 11

7. General Business

7.1 Work Plan

12 - 14

8. Adjournment



Minutes
The Township of Cavan Monaghan
Sustainability Advisory Committee Meeting
Friday, September 20, 2024
1:00 p.m.
Council Chambers – Hybrid Room

Those members in attendance:

Leslie Bilcox Chair (remotely)
 Amanda Newell
 Craig Onafrychuk
 Lisa Crawford
 Ryan Huntley Deputy Mayor

Those members absent:

Manny Borges
 Joanne Key

Staff members in attendance:

Mark Froment Deputy Clerk
 Kyle Phillips Chief Building Official/By-law Enforcement Officer
 Chris Allison Parks and Facilities Manager

1. Call to Order

Chair Leslie Bilcox called the meeting to order at 1:02 p.m.

2. Land Acknowledgement

Chair Leslie Bilcox recited the land acknowledgement.

3. Approval of the Agenda

Moved by: Huntley

Seconded by: Newell

That the agenda for the Sustainability Advisory Committee be approved as presented.

Recorded	For	Against
Bilcox	X	
Newell	X	
Huntley	X	
Onafrychuk	X	
Crawford	X	
Results	5	0

Carried

4. Disclosure of Pecuniary Interest and the General Nature Thereof

There were no pecuniary interests noted.

5. Minutes

5.1 Minutes of the meeting held July 19, 2024

Moved by: Newell

Seconded by: Huntley

That the minutes of the Sustainability Advisory Committee meeting held July 19, 2024, be approved as presented.

Recorded	For	Against
Crawford	X	
Onafrychuk	X	
Bilcox	X	
Newell	X	
Huntley	X	
Results	5	0

Carried

6. General Business

6.1 2025 Budget Discussion

Kyle Phillips provided the Committee with a financial report.

6.1.1 Community Tree Planting Project Samples

Moved by: Crawford

Seconded by: Newell

That the Sustainability Advisory Committee request for the 2025 Budget \$10,000 for Sustainable Community Initiatives and the addition of one (1) new initiative for 2025 being the Rain Barrel Program requesting \$5,000.

Recorded	For	Against
Huntley	X	
Crawford	X	
Onafrychuk	X	
Bilcox	X	
Newell	X	
Results	5	0

Carried

6.2 2024 Work Plan

Moved by: Huntley
Seconded by: Crawford
That the Sustainability Advisory Committee approve the additional materials for the work plan.

Recorded	For	Against
Crawford	X	
Newell	X	
Huntley	X	
Onafrychuk	X	
Bilcox	X	
Results	5	0

Carried

Moved by: Crawford
Seconded by: Onafrychuk
That the Sustainability Advisory Committee approve the updates for the work plan and add one new item being the Community Tree Planting Project.

Recorded	For	Against
Bilcox	X	
Crawford	X	
Newell	X	
Huntley	X	
Onafrychuk	X	
Results	5	0

Carried

7. Adjournment

Moved by: Huntley

Seconded by: Newell

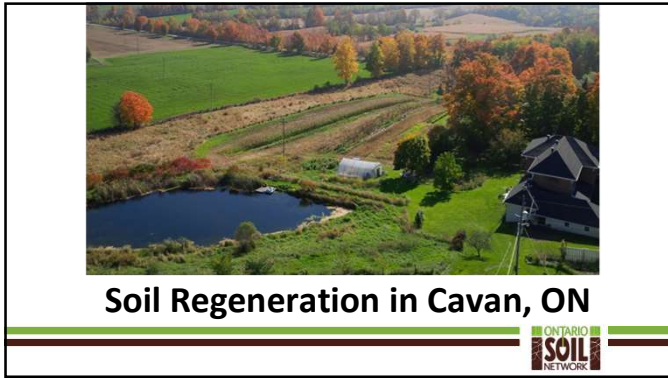
That the Sustainability Advisory Committee adjourn at 2:12 p.m.

Recorded	For	Against
Onafrychuk	X	
Bilcox	X	
Crawford	X	
Newell	X	
Huntley	X	
Results	5	0

Carried

Leslie Bilcox
Chair

Mark Froment
Deputy Clerk



1

- Established 1902, 6th generation family farm
- Formerly 900 sow hog operation (farrow-wean)
- 500-acre Diverse Operation
 - Market Garden
 - Cash Crop (Corn, Soy, Wheat, Oats, Barley)
 - Forages, Hay, Woodlots, Grasslands
 - Compost Facility
 - Commercial Passive Solar Greenhouse
 - Livestock
 - Organic Maple Syrup

2

Norm Lamothe

- **Full-Time Farmer**
- **Entrepreneur**
 - Co-founder: Deveron Corp. (TSXV: FARM)
 - Leading North American Ag Tech Startup
 - Aviation Background
 - International Aircraft Brokerage & Flight School
- **Educator**
 - Food and Farming Program (Durham College)
 - Community Involvement
 - Agriculture Advocate

3

Our Journey

2015 2018 2020

4

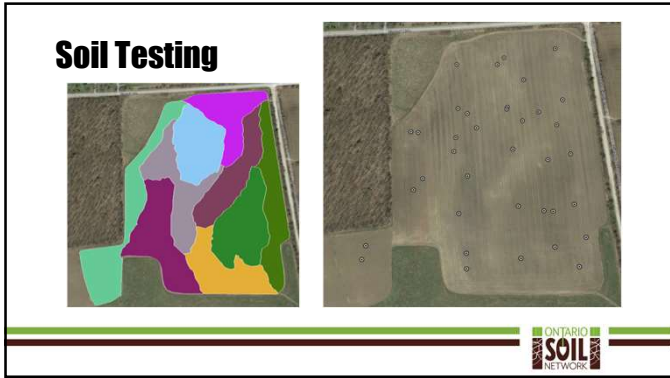
Soil Regeneration

- Our Philosophies Include:
 - Increased Rotations
 - Minimum Tillage*
 - Extensive Use of Cover Crops
 - Organic Soil Amendments
 - Rotation Grazing (New)
 - 3D - Data Driven Decisions

5

Soil Testing

6



7



8



9



10



11



12

Pushing The Limits




13




14

Learning as we go

- There are no quick fixes in ag
- Set realistic expectations
- Embrace technology - data is your friend
- Accept failures as learning opportunities
- Measure, measure, measure




15

Research Farm





16

Climate Legacy

- Our Philosophies Include:
 - Carbon Footprint Reduction
 - Carbon Sequestration Program
 - Conversion of Waste to Energy
 - Journey to Net Negative
 - Electrify Everything
 - Promotion of Diversity




17




18

Our Partners

19

Our Future

- Circular Economies
- Conversion of Waste to Energy Biproducts
- Forest Biomass Recovery Program
- Fertilizer Substitutes and Commercial Biproducts

20

2019 – Phase 0.0

Biochar Feasibility Study

- Goal: determine the financial feasibility of commercial production of biochar for use in agriculture
- Result: not feasible
- Launch of "Catching Carbon"

Moving forward together towards a greener more sustainable future. 21

21

2024 – Phase 1.0

Forest Biomass Recovery Launch

- Partnership Discussions with Ontario Woodlot Association
- Testing/purchasing equipment
- Contracts
- Training/Licensing
- Rebranding/social media/ advertising
- Plan/schedule future harvest thinning operations with the OWA and participating landowners
- Planning/funding/equipment for Phase 2 – biochar production

Moving forward together towards a greener more sustainable future. 22

22

Harvester/Forwarder Vimek 404 T8 Duo

Vimek 404 T8 DUO unites the best of both worlds. It combines a harvester and a forwarder in one machine. **Efficiency in small-scale forestry is important.**

[Vimek-harvester-404T8DUO-en.pdf](#)

23

Harvester/Forwarder Vimek 404 T8 Duo

Professional and lightweight forestry equipment specifically for forest thinning since the 1980s. It is a job-specific piece of equipment for operating in tight spaces and ideally suited for smaller plantations and dense areas.

It is a dual-purpose compact, lightweight, and versatile machine designed specifically for thinning operations. Capable of cutting forest biomass up to 300mm (12 inches) in diameter, it is extremely fuel efficient and nimble for its size. It is capable of processing materials and within minutes can be fitted with a grapple and forwarding trailer for harvest collection.

24

24

Excavator Mecalac 8MCR



Mecalac 8MCR, a compact, powerful, versatile, and fast maneuvering multi-use machine. Produced in France and distributed by a dealership in Ontario. Proven track record and very efficient fuel consumption. The Mecalac will be equipped with a rotator grapple used to pick up logs and debris in tight spaces, as well as a tree shear gatherer for quick removal and gathering of smaller trees and brush.

The machine will be equipped with a log trailer to act as a second forwarder for material removal. Lastly it will be used to gather up and stockpile unmarketable materials and subsequently be used as the primary feeding tool for the woodchipper.



25

Chipper – Vermeer 1800 XL



The Vermeer 1800 XL is a highly productive 18" capacity drum-style chipper. Its powerful dual feed wheel system driven via (2) 32.3 CID hydraulic motors provides around 4,480 pounds of pulling power and the standard hydraulic lift cylinder enhances performance by providing additional down pressure reducing chainsaw work. 360-degree hand crank discharge chute with end chip deflector height adjustable.

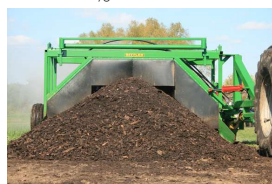
26

Windrower Sittler Compost Windrow Turner 512



Made in Canada, PTO driven beater, can operate on tractors in the 85-100 hp range. Water hookups standard. Ideal for medium to large farm, municipal and industrial composting

Reliable, efficient, economical, low-maintenance, and long-lasting. Extra-hardened, replaceable steel blades are uniquely positioned on the compost drum to allow for complete blending right to the base of the windrow. Material from the outside is brought inward and from the bottom to the top forming a peak position, allowing the windrow to have a chimney effect for ideal CO₂/oxygen flow.



27

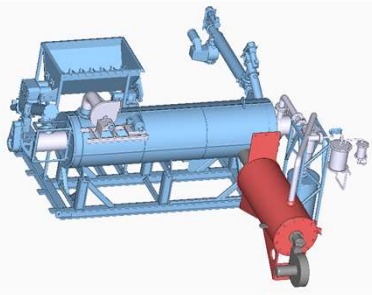
Compost Extractor Hiwasse Continuous Flow Bio-Extractor 700 GPL



Durable casters make this unit easily movable, and the compact frame conveniently fits through any standard door. Unlike other extractors requiring an industrial grade 230-volt electrical connection, a single 115/120-volt electric feed is all that is needed to power our Bio-Extractor. The stainless-steel construction and high-quality components combined with expert workmanship, provide unmatched strength and durability. Every component of the Bio-Extractor has been designed to protect microbiology during the extraction and liquid transfer processes. Best of all, there is no waste from the extraction process as the solid byproducts can be recycled into a composting system or used for high-quality potting soil.
 -Continuous Flow Rate: 700 GPH.
 -Electrical: Single 120-volt outlet, UL Listed Control Panel
 -Dimensions: 30W x 48L x 70H inches, Fits through a standard door, 340 pounds

28

2025 – Phase 2.0



Biochar Production

- Design/Engineering Spring 2024
- Fabrication Summer 2024
- 2 tonne/day biochar production
- Pyrolygneous acid production
- CHP opportunities
- Anticipated production 2025
- 2025-2026 field trials and research with OSCIA
- Annual CO₂e sequestration potential = 1,400 tonnes/year

Moving forward together towards a greener more sustainable future.

29

29

Our Partners – Catching Carbon

30

Contact Info

Woodleigh Farms Ltd. – Norm Lamothe

Twitter: @woodleighfarms
Facebook: woodleighfarms
Instagram: woodleighfarms

www.cavanfresh.ca
woodleighfarms@gmail.com
705-761-2063



Sustainability Advisory Committee Work Plan 2024				
Item	Budget	Sub-Committee	Tasks/ Progress	Completion Date
#1. Sustainable Community Initiatives	\$5,000	Kyle Phillips Chris Allison	Current sustainable community initiatives are now completed. A possible Earth Day initiative for 2025 was discussed.	Ongoing
#2. Data Analysis	\$30,000 Contracted services	Kyle Phillips Chris Allison	RFP for the Corporate and Community Data Analysis and Monitoring Program has been awarded to Aladaco Consulting Inc.. The contractor is working through some challenges with the data as households that use propane are not included in the data set.	RFP issued, ongoing
#3. Energy Conservation Demand Management Plan Update		Committee	Staff will bring a draft plan back to the Committee. Next step to be completed once the consultant for the data analysis has completed their work.	Awaiting data analysis
#4. Communication Campaign		Brigid Ayotte	Committee made two (2) recommendations on the communications materials for the rain barrel program. Two new sets of materials, one for the rain barrel program and another for weatherstripping, are attached for review.	Ongoing
#5. Rain Barrel Program		Leslie Bilcox	Rain barrels have been delivered and were all sold out. There is a waiting list of more than 20 who are interested in purchasing them too. 50 more barrels have been ordered.	Initial order completed
#6. Community Tree Planting Program		Leslie Bilcox Staff	Committee and staff to explore design and costs for a Community Tree Planting Program. The Committee's preference is for one similar to Douro Dummer's program. Staff have contacted Pine Needle Farms and they are sending some information.	Ongoing
#7. Earth Day 2025 (April 22, 2025)		Committee	Initiatives to be decided.	Ongoing

November 1, 2024



Reasons to buy a Rain Barrel

Available at the Township Booth at the Merry Millbrook Christmas
Sat. Dec.7, 2024.

\$30/barrel
cash only
2/household



Cost: \$30

Pick-up Location: Township Booth Merry Millbrook Christmas

Date: Saturday Dec.7, 2024

Time: 11am to 5pm

More Info: www.cavanmonaghan.net/rainbarrel



Water Conservation

Rain barrels collect and store rainwater for watering plants, reducing the need for municipal water.



Cost Savings

Using rainwater for outdoor tasks can reduce water bills, particularly in dry seasons or areas with metered water.



Environmental Impact

Rain barrels reduce stormwater runoff, prevent pollutants from entering water bodies & reduce the strain on local drainage systems.



Great Deal!

You can buy a high quality plastic barrel for only \$30. Regular price is \$120

Seal the Deal!

As the leaves turn and the air gets crisp, it's time to get your home winter-ready!

The Township, in partnership with Home Hardware have developed a weatherstripping kit that includes

- jfkal;jk;da
- jfkd;ad
- a;ljfjkl;a



\$XX.00 Per Kit

Only available at Millbrook Home Hardware while supplies last



cavanmonaghan.net/weatherstrip

