

Holland Marsh Drainage System Joint Municipal Service Board Agenda

Thursday, February 8, 2024, 7:00 p.m.
Large Engineering Boardroom
305 Barrie Street, Unit 2, Bradford, ON

Pages

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|-----------|--|--|-----------|
| 1. | Call to Order | | |
| | <u>Recommendation:</u>
That this meeting of the Holland Marsh Drainage System Joint Municipal Service Board come to order at 7:00 p.m. | | |
| 2. | Approval of Agenda/Changes | | |
| | <u>Recommendation:</u>
That the Board approve the agenda dated February 8, 2024, as printed and circulated. | | |
| 3. | Declarations of Pecuniary Interest and the General Nature | | |
| 4. | Comments by the Chair | | |
| 5. | Presentations/Deputations | | 3 |
| | <u>Recommendation:</u>
That the presentation on Lake Simcoe Phosphorus Reduction Project, Kerry Tuyen - Ontario Clean Water Agency, be received for information. | | |
| 6. | Adoption of Board Minutes | | 15 |
| | <u>Recommendation:</u>
That the minutes of the Holland Marsh Drainage System Joint Municipal Service Board meeting held December 14, 2023 be approved, as printed and circulated. | | |
| 7. | Correspondence/Reports | | |
| | 7.1 Report of Drainage Superintendent | | 18 |
| | <u>Recommendation:</u>
The the Report HMDSJMSB-2024-01 of the Drainage Superintendent dated February 2, 2024 be received for information. | | |
| 8. | New Business | | |
| 9. | Next Meeting | | |
| | The next meeting of the HMDSJMSB will be on Thursday, April 11, 2024 at 7:00 | | |

p.m. at Township of King Municipal Centre, 2585 King Road, King City, Ontario.

10. Adjourn

Recommendation:

That this meeting of the Holland Marsh Drainage System Joint Municipal Service Board adjourn at _____p.m.



Lake Simcoe Phosphorus Reduction Project



Minister's Letter to OCWA

357-2023-2433

November 23, 2023

Mr. Joseph Pennachetti
Chair
Ontario Clean Water Agency
Email: pennachettijoe@gmail.com

Dear Mr. Pennachetti:

Our Government recognizes the importance of the Lake Simcoe watershed to our province and is committed to protecting and restoring Lake Simcoe and its watershed. Last year, the Province announced a funding allocation of \$24 million to an entity to design, build and operate a phosphorus reduction project in the Holland Marsh, located in the Lake Simcoe watershed. The project aims to reduce up to 5 tonnes of phosphorus per year from the Holland Marsh drainage water. There is a total of \$40 million in provincial and federal government commitments allocated toward the project.

To continue progress on the project, I am directing OCWA to prepare a research study within 6 months for the project that considers the following:

- a) Options for conceptual designs (i.e., engineered wetland, lagoon treatment, mechanical treatment) capable of treating drainage discharged from the Holland Marsh.
- b) An assessment of the feasibility of phosphorus recovery and reuse from the facility.
- c) Prepare and compare order of magnitude cost estimates (i.e., capital, operations and maintenance) for the conceptual design options.
- d) Project site selection criteria for each of the design options and existing sites that meet these criteria.
- e) Identify design and site considerations based on Holland Marsh drainage operations and agricultural activity.
- f) Cost recovery mechanisms for the project's capital and operating costs, including analysis of benefiting parties.

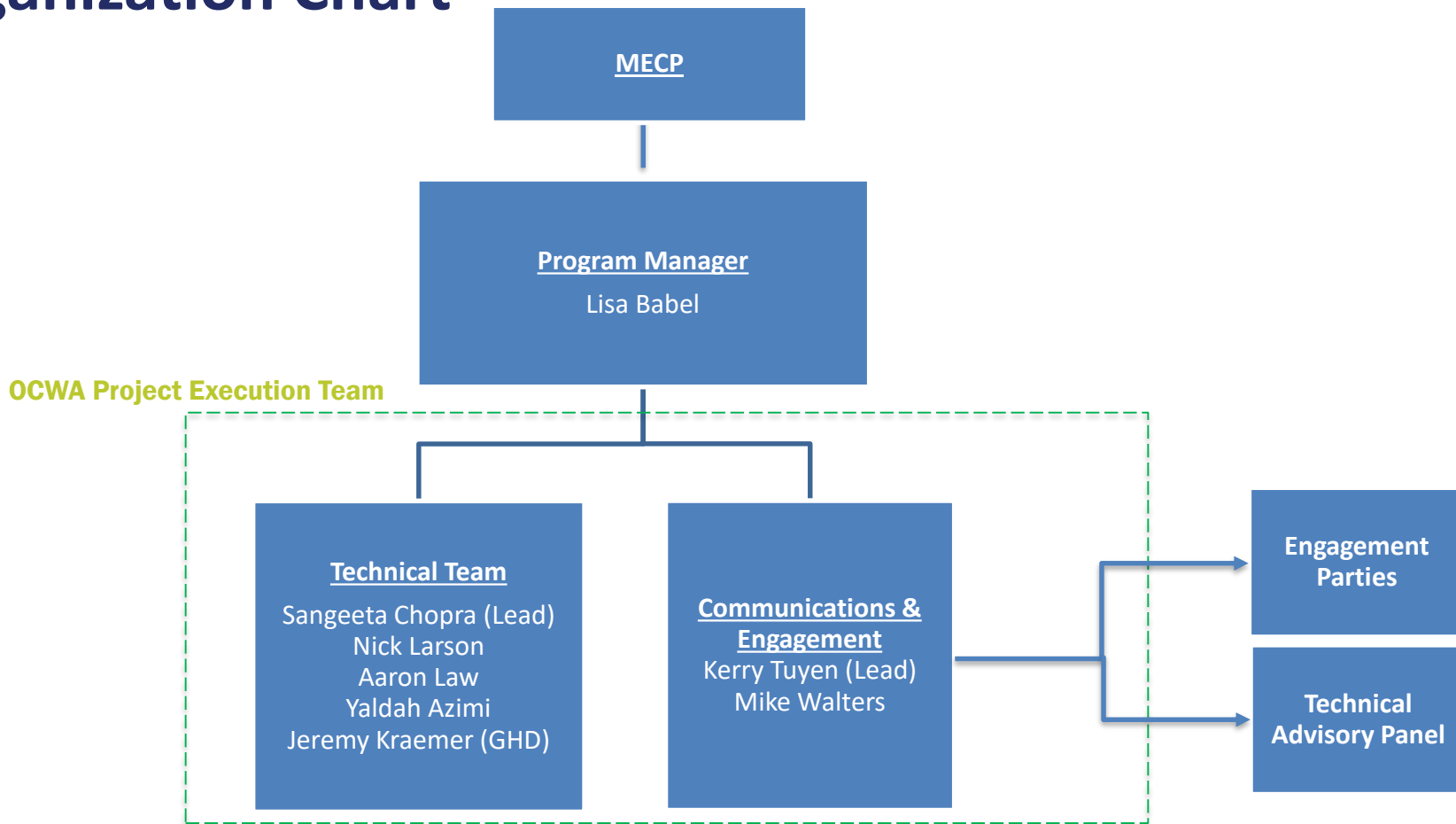
We encourage OCWA to engage with stakeholders such as York Region, Town of Bradford West Gwillimbury, King Township, Simcoe County, Lake Simcoe Region Conservation Authority, Holland Marsh Joint Municipal Services Drainage Board, and the Holland Marsh Growers' Association) as part of its research and, if OCWA considers it advisable, it should procure assistance for preparing this report.

OCWA's Project Deliverables

Timeline to complete: May 24th, 2024

1. **Feasibility Study** of treatment technologies
 - a) to review and assess the optimal treatment option for phosphorus removal from drainage water collected at the Art Janse Pumping Station.
 - b) also include the viability of phosphorus recovery and reuse.
2. Order of magnitude **Capital and Operating Cost Estimates**
3. **Cost Recovery Mechanisms** to assess options for the recovery of capital and operating costs over the life of the plant, including identification of benefiting parties.
4. **Engineering Criteria for Site Selection** to guide the review, assessment and selection of the location of the treatment plant.

Organization Chart



Technical Advisory Panel

Academic

- Dr. Rania Hamza, Toronto Metropolitan University
- Dr. David Blowes, University of Waterloo
- Dr. June Garcia-Becerra, University of Northern British Columbia

Consultants (TBD)

- Stantec?
- EXP?
- Jacobs?

Government/Authorities

- Don Goodyear, LSRCA
- OMAFRA?

Note: The Project Execution Team cannot be ON the Advisory Panel, however can participate in Advisory Panel Discussions

List of Identified Engagement Parties (to be confirmed)

Municipalities and Others

- York Region
- Town of Bradford West Gwillimbury
- Township of King
- Simcoe County
- Lake Simcoe Region Conservation Authority
- Holland Marsh Joint Municipal Services Drainage Board
- Holland Marsh Growers' Association
- City of Barrie
- Rescue Lake Simcoe Coalition
- Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA)

First Nations Communities

- The seven Williams Treaties First Nations including:
 - Chippewas of Georgina Island First Nation
 - Alderville First Nation
 - Chippewas of Beausoleil First Nation
 - Chippewas of Rama First Nation
 - Curve Lake First Nation
 - Hiawatha First Nation
 - Mississaugas of Scugog Island First Nation
- Mississaugas of New Credit

First Nations Engagement

- Establish relationships and meaningful connections with First Nations for the duration of the feasibility study
- Lead: Kerry Tuyen & Mike Walters

List of Identified Engagement Parties

Name	Org	Role	Contacted?
David Lembcke	LSRCA	Manager, Environmental Science & Monitoring	Yes
Trish Barnett	LSRCA	Chief of Staff	Yes
Rob Baldwin	LSRCA	Chief Administrative Officer	Yes
Don Goodyear	LSRCA	General Manager, Integrated Watershed Management	Yes
Erin Mahoney	Regional Municipality of York	Chief Administrative Officer	Yes
Mike Rabeau	Regional Municipality of York	Director, Capital Planning & Delivery	Yes

List of Identified Engagement Parties

Name	Org	Role	Contacted?
Daniel Kostopoulos	Township of King	Chief Administrative Officer	Yes
Avia Eek	Township of King	Councillor	No
Samantha Fraser	Township of King	Director of Public Works	Yes
Kyle Snell	Township of King	Manager, Environmental Services	Yes
Frank Jonkman	Holland Marsh Joint Municipal Services Drainage Board	Drainage Superintendent	Yes
Geoff McKnight	Town of Bradford West Gwillimbury	Chief Administrative Officer	Yes
James Leduc	Town of Bradford West Gwillimbury	Mayor	Yes – through Geoff McKnight
Raj Sandhu	Town of Bradford West Gwillimbury	Deputy Mayor	Yes – through Geoff McKnight

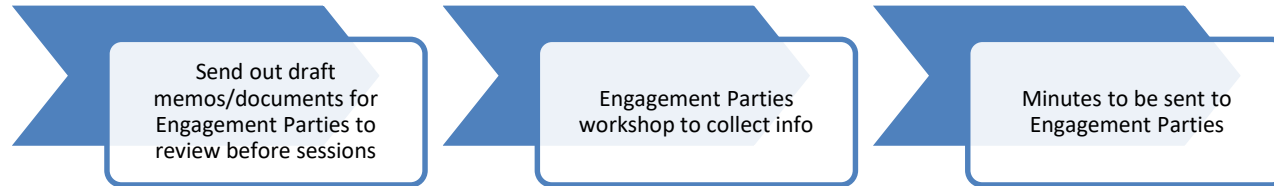
List of Identified Engagement Parties

Name	Org	Role	Contacted?
Mark Aitken	County of Simcoe	Chief Administrative Officer	Yes
Nathan Westendorp	County of Simcoe	Director, Planning & Chief Planner	No
Jody Mott	Holland Marsh Growers' Association	Executive Director	No
Kerry Ann Charles	Cambium Indigenous Professional Services (CIPS)	Environment Partnership Coordinator	Yes
Bob Watts	OCWA First Nations Advisory Circle	Chair, OCWA First Nations Advisory Circle	Yes
Gary Pritchard	4 Directions of Conservation Consulting Services	Chief Executive Officer	No
Bala Araniyasundaran	City of Barrie	General Manager, Infrastructure and Growth Management	No
Claire Malcolmson	Rescue Lake Simcoe Coalition	Executive Director	No
TBC	OMAFRA	TBC	No

Engagement Parties Workshop

Workshop	Purpose/ Desired Outcome of Session	Comments/ Schedule
<p><u>Workshop Topics:</u> Topic 1: Background Information Review and Understanding</p> <p>Topic 2: Design Basis for the Technical Solutions</p> <p>Topic 3: Engineering Criteria for Site Selection</p>	<ul style="list-style-type: none"> - Update from OCWA on project status - Gather input/feedback on key criteria for site selection <p><u>3 Memos provided before the Workshop for each discussed topic:</u></p> <p>Memo #1: Background Information Review and Understanding</p> <ul style="list-style-type: none"> • Updating conceptual options previously explored • Current technical options to be explored <p>Memo #2: Design Basis for Technical Solutions</p> <ul style="list-style-type: none"> • High level explanation of what performance is expected from a solution • Collect background info from Engagement Parties <p>Memo #3: Engineering Criteria for Site Selection</p> <ul style="list-style-type: none"> • List of engineering criteria 	<p>Lead: Kerry Tuyen & Mike Walters</p> <p>Potential Support: 3rd party Engagement Parties facilitator (needs to be an individual that is neutral & help to steer conversation)</p> <p>Date: Week of March 4th, 2024</p> <p>Attendees: All Engagement Parties Identified</p> <p>Location: In person with recorded session availability; Location to be confirmed</p>

Engagement Parties Workshop Process



Set ground rules for each session:

- Confidential draft memo(s) will be sent one week prior to workshop for discussion with participants of Engagement Parties Workshop
- Sessions will be used to gather feedback/information
- After session, minutes will be shared (OCWA- Kerry Tuyen)
- No additional changes will be included after the session



Holland Marsh Drainage System
Joint Municipal Service Board
Minutes

December 14, 2023, 3:00 p.m.
The Trisan Centre Boardroom
25 Dillane Drive
Schomberg, Ontario

Members Present:	William J Eek, Chair Ben Verkaik, Vice Chair Steve Pellegrini, Mayor - TOK Raj Sandhu, Deputy Mayor – BWG	Jennifer Anstey, Councillor - TOK Dan Sopuch Dave Munshaw Trevor Voorberg
Regrets:	Brian Visser	
Staff Present:	Frank Jonkman, Drainage Superintendent	Ruth Westlake, Holland Marsh Drainage Board Coordinator

1. Call to Order

Resolution HM-2023- 39

Moved By Sopuch

Seconded By Voorberg

That this meeting of the Holland Marsh Drainage System Joint Municipal Service Board come to order at 3:10 p.m.

CARRIED

2. Approval of Agenda/Changes

Resolution HM-2023- 40

Moved By Sandhu
Seconded By Verkaik

That the Board approve the agenda dated December 14, 2023, as printed and circulated.

CARRIED

3. Declarations of Pecuniary Interest and the General Nature

There were no declarations of pecuniary interest.

4. Comments by the Chair

Chair Eek advised the Board that the Township of King and Town of Bradford West Gwillimbury had approved the Board's 2024 Business Plan and Budget. Chair Eek also passed along holiday greetings from both municipalities.

5. Presentations/Deputations

There were no presentations or deputations.

6. Adoption of Board Minutes

Resolution HM-2023- 41

Moved By Anstey
Seconded By Pellegrini

That the minutes of the Holland Marsh Drainage System Joint Municipal Service Board meeting held November 16, 2023 be approved, as printed and circulated.

CARRIED

7. Correspondence/Reports

7.1 Report of Drainage Superintendent

Resolution HM-2023- 42

Moved By Sopuch
Seconded By Voorberg

That Report HMDSJMSB-2023-08 of the Drainage Superintendent dated December 7, 2023 be received for information.

CARRIED

8. New Business

There was no new business.

9. Next Meeting

The next meeting of the HMDSJMSB will be on Thursday, February 8, 2024 at 7:00 p.m. at the Large Engineering Boardroom, 305 Barrie Street, Unit 2, Bradford, ON.

9.1 Future Meeting Dates

Resolution HM-2023- 43

Moved By Anstey

Seconded By Sandhu

That the Board approve the 2024 meeting dates as follows:

February 8, 2024 at 7:00 p.m.; April 11, 2024 at 7:00 p.m.; June 13, 2024 at 7:00 p.m.; August 8, 2024 at 7:00 p.m.; October 10, 2024 at 7:00 p.m.; December 12, 2024 at 7:00 p.m.

CARRIED

10. Adjourn

Resolution HM-2023- 44

Moved By Verkaik

Seconded By Voorberg

That this meeting of the Holland Marsh Drainage System Joint Municipal Service Board adjourn at 3:42 p.m.

CARRIED

William J Eek, Chair

Ruth Westlake, Secretary



HOLLAND MARSH
DRAINAGE SYSTEM
Joint Municipal Service Board

Report of Holland Marsh Drainage System
Joint Municipal Service Board

REPORT #: HMDSJMSB-2024-01
DATE: 02-02-2024
SUBJECT: Drainage Superintendent Report
SUBMITTED BY: Frank Jonkman, Drainage Superintendent

1. Main Drain
 - a. Scheduled Main Drain maintenance has been completed.
2. Pumping Stations
 - a. Art Janse Pumphouse
 - a. Vendor has been changed, pump delivery approximately 9 weeks
 - b. Vendor has been notified to update SCADA and communications
 - b. Bardawill Pumphouse
 - a. No update
 - c. Charlie Davis Pumphouse
 - a. No update
 - d. Ferragina Pumphouse
 - a. No update
 - e. Horlings Pumphouse
 - a. No update
 - f. Professor Day Pumphouse
 - a. Meeting to be scheduled early 2024
 - g. Morris Road Pumphouse
 - a. No update
 - h. SCBR Pumphouse
 - a. No update
3. BWG / TOK Small Drains
 - a. Planned Small Drain Maintenance
 - i. All Drains completed
 - b. Drain 16
 - a. Burnside to prepare the report (ongoing)
 - c. S.76
 - a. Schedule has been submitted

- i. Meeting held to review draft schedule and comments provided
 - ii. Revisions to be made and resubmitted
 - iii. Presentation to the Board set for May 2024
4. HMDSCIP Perimeter Maintenance
 - a. Soundings completed, will review data for future maintenance requirements
 - b. Numerous areas with nuisance animals tracked during inspections, trapper will be notified and proceed with removal, Spring activity
5. General
 - a. Burnside
 - a. Accepted appointment for the Professor Day Pumphouse
 - b. DFO
 - a. No report
 - c. LSRCA
 - a. LSRCA continues to monitor discharge waters and has recently completed a sampling period that will do a complete analysis of discharge water
 - d. MTO Bridges
 - a. Email chain from previous attempts to contact has been sent, waiting for response
 - e. OMAFRA
 - a. Grant applications have been completed and submitted
 - f. MECP
 - a. The Ontario Clean Water Agency has been engaged by MECP to complete a study on the phosphorus offsetting efforts. Presentation to be provided to the Board members
 - b. Waiting on response to grant applications that had previously been submitted
 - c. MECP Steering Committee "Holland Marsh Bench Testing"
 - i. No current update
 - g. Holland River Drain
 - a. Brushing - Discussions about process currently taking place with New Tecumseth, meeting has been scheduled