



Lakeland Industry and Community Association

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## **TECHNICAL WORKING GROUP**

### **Meeting Minutes**

**December 3, 2018 – 1:00 p.m. - 4:00 p.m.**

**LICA Board Room**

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**Present:**

Annette Hobart, Committee Chairperson  
Fin MacDermid  
Andrea Woods (excused at 3:00 p.m.)  
Patrick Traudt  
Nathan Ballard (via teleconference)  
Megan Tilley  
Roger Boucher

**Observers and Guests:**

Catherine Walker  
Roxane Bretzlaff

**Staff and Contractors:**

Arianne Crook, LICA Executive Director  
Michael Bisaga, Manager, Environmental Monitoring Programs  
(arrived at 1:30 p.m.)  
Lily Lin, Data and Reporting Specialist (arrived at 1:30 p.m.)  
Tina Martin, LICA Administrative Professional  
Colin Hanusz, Environmental Management Programs

**Regrets:**

Douglas McCord  
Shawn Elgert

**1.0 CALL TO ORDER:**

Annette Hobart, Chairperson, called the meeting to order at 1:13 p.m.

**1.1 Introductions**

**1.2 Vision, Mission and Values**

**1.3 Roll Call**

## **1.4 Approval of Agenda**

**#1 Moved by Roger Boucher AND RESOLVED that the December 3, 2018 Agenda be approved as presented.**

## **1.5 Approval of Minutes**

### **1.5.1 October 1, 2018**

**#2 Moved by Patrick Traudt AND RESOLVED that the October 1, 2018 Minutes be approved as presented.**

## **2.0 ONGOING BUSINESS**

### **2.1 Technical Working Group Terms of Reference**

The Technical Working Group (TWG) reviewed the Terms of Reference.

**#3 Moved by Fin MacDermid AND RESOLVED that the Technical Working Group Terms of Reference be forwarded to the Board of Directors for approval without change.**

### **2.2 Jessie Lake Restoration Program**

#### **2.2.1 Aeration Options**

The TWG reviewed the quote from Pond Pro. Price comparisons were discussed between the vendors with Colin indicating that the cost of the project has increased considerably due to the shallow depth of Jessie Lake.

#### **2.2.2 Aeration Scope of Work**

The TWG reviewed the Aeration Project Scope of Work and the letter of support from the Town of Bonnyville. The TWG recommends to the Board that the aeration project on Jessie Lake be deferred at this time due to the increased cost owing to the depth of the lake being shallower than originally thought as well as the complexities of winterizing the system and/or the compromised integrity of the ice on the lake and potential liabilities associated with this risk. The TWG further recommends to the Board that Colin return to the Town of Bonnyville to provide further information on the project.

## **2.3 Creek Water Quality and Quantity Testing**

### **2.3.1 Scope of Work**

The TWG reviewed the Creek Water Quality and Quantity Testing Scope of Work. A funding application to the Oil Sands Monitoring Program administered by the Environmental Monitoring and Science Division of the Government of Alberta for this testing is in progress. It was suggested that the purpose of the background data collection be expanded to include the creation of a baseline in water quality in the region to monitor future changes. The TWG also recommended an expansion of the budget estimation to include monitoring of five additional sites, third party contractors and potential education and outreach programs that could be used to share findings with the public.

## **2.4 Watershed Update**

### **2.4.1 Integrated Watershed Management Plan**

The Moose Lake State of the Watershed report was completed in 2005. The Moose Lake Watershed Management Plan was completed in 2007 and has been adopted by the Municipalities. Colin will distribute both documents to the TWG members for review towards reengaging in the development of an Integrated Watershed Management Plan (IWMP) for the Beaver River Watershed. Fin suggested compiling water licensing data towards this end, so we know the scope and scale of the withdrawals in the region. The TWG would also like to see a detailed work plan including timelines, outcomes and budget prior to any work commencing on the IWMP.

### **2.4.2 Muriel Lake Restoration Team**

The Muriel Lake Basin Management Society (MLBMS) is completing a Citizen Science project on Muriel Lake over the winter. LICA will be training volunteers to use our YSI probe to measure dissolved oxygen, temperature, conductivity, pH, and total suspended solids at 0.5m intervals. LICA is purchasing a 20m Quattro cable so the MLBMS is able to sample the entire water column. The Alberta Lake Management Society (ALMS) is providing the methodology for sample collection so as to be consistent with other lakes in the province. Winter testing has been tentatively booked for mid- December, January, February, and March.

### **2.4.3 Moose Lake Restoration Team**

LICA and the Moose Lake Watershed Society (MLWS) have commissioned numerous scientific studies and collected a lot of data on Moose Lake over the years. The Moose Lake Integrated Watershed Management Plan and the Moose Lake State of the Watershed report have identified a few gaps in this data. MLWS is pursuing funding to purchase a fecal coliform analyzer to fill a data gap previously identified. Colin proposed that LICA solicit proposals from vendors to complete a phosphorus budget for the lake. The TWG supports Colin soliciting quotes from vendors for the completion of a Phosphorus Budget on Moose Lake, and that the information be brought back to the group for consideration.

## **2.5 Multi-Year Air Monitoring Report**

### **2.5.1 Draft Schedule for Completion**

Mike reviewed the purpose of the report and the scope of the work with the TWG. To date the air quality data has been compiled and verified. Mike and Lily are currently working on distillation of the downloaded industry data. Steps to still be completed include NPRI data compilation, indicators/metadata, traffic data compilation, population data compilation, data synthesis and report draft, and presentation of the draft to the TWG for review and comment.

## **2.6 Monitoring Operations Update**

### **2.6.1 PAMS**

The PAMS station has been redeployed east of Bonnyville between Jessie and Charlotte Lakes. Since deployment there have been measurements of H<sub>2</sub>S exceedances from both Jessie Lake and the Bonnyville sewage lagoons, as indicated by the direction of the wind.

### **2.6.2 Soil Acidification Project**

The soil samples for the Soil Acidification Project have been collected and archived until funding for analysis has been approved. Mike is attending the AEP Deposition workshop next week and we are hoping to receive some direction on this project at that time. Mike shared the article, "Economic Indicators" the provincial monitoring program on which our project is based.

### **2.6.3 Maskwa & Cold Lake Siting and Communications Issues**

We have identified a new site for the Maskwa station and are awaiting input from AEP Auditors. The new equipment at the Maskwa station has been having a communications issue with Imperial Oil's equipment. Solutions to this communication issue are ongoing as direct communication is a part of Imperial Oil's emergency response plan. Technical support for this issue requires escalation as the vendor is not providing adequate technical support to resolve the issue.

For the Cold Lake station, we have received the setback distance from ATCO and are now in the process of ordering the taller tower.

### **2.6.4 Network Operations Contract**

In order to facilitate the development of a new Master Service Agreement (MSA), LICA has completed a Request for Quote (RQF) which will be sent to Maxxam this month. The document will be shared with the TWG for input.

## **2.6.5 Network Optimization Project Update**

The 5-year Air Quality Plan ties into the Oil Sands Monitoring (OSM) Network Optimization project. This project is underway to seek out gaps in the continuous monitoring network and redundancies in the passive monitoring network. The OSM Network Optimization and Passive Network Analysis will be forwarded to the TWG members for input.

## **2.7 Beaver River Valley Project Update**

The first quarter results from the test site are now available on the LICA website. The remaining array of monitoring stations are being deployed this week.

## **3.0 ACTION LIST**

### **3.1 Follow-up on Action List**

#### **3.1.1 October 1, 2018 TWG Meeting**

The Technical Working Group reviewed the action list for the October 1, 2018 Technical Working Group Meeting.

## **4.0 UPCOMING MEETING DATES**

### **4.1 Board Meeting – December 13, 2018**

### **4.2 Next TWG Meeting**

The next TWG meeting will occur towards the end of January 2019. A Doodle Poll will be sent out to determine member availability.

## **5.0 ADJOURNMENT**

The meeting adjourned at 4:18 p.m.

**#8 Moved by Fin MacDermid AND RESOLVED that the meeting be adjourned.**

Approved on: \_\_\_\_\_  
Date

\_\_\_\_\_  
Signature