



Lakeland Industry and Community Association

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## **TECHNICAL WORKING GROUP**

### **Meeting Minutes**

**January 22, 2019 – 9:00 a.m. - 12:00 p.m.**

**LICA Board Room**

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**Present:**

Annette Hobart, Committee Chairperson  
Fin MacDermid  
Patrick Traudt  
Nathan Ballard (via teleconference)  
Shawn Elgert (via teleconference)  
Megan Tilley  
Roger Boucher

**Observers and Guests:**

**Staff and Contractors:**

Arienne Crook, LICA Executive Director  
Michael Bisaga, Manager, Environmental Monitoring Programs  
Tina Martin, LICA Administrative Professional  
Colin Hanusz, Environmental Management Programs  
Erin Ritchie, Education & Outreach Coordinator

**Regrets:**

Andrea Woods

**1.0 CALL TO ORDER:**

Annette Hobart, Chairperson, called the meeting to order at 9:00 a.m.

**1.1 Introductions**

**1.2 Vision, Mission and Values**

**1.3 Roll Call**

Colin will follow-up with Douglas McCord and Katlyn MacDonald to see if they are still interested in sitting on the TWG Committee.

## 1.4 Approval of Agenda

#1 Moved by Megan Tilley AND RESOLVED that the January 22, 2019 Agenda be approved as amended:

- Renumber item 2.2.2 to read item 2.2.1
- Renumber item 2.6.3 to read item 2.3.3

## 1.5 Approval of Minutes

### 1.5.1 December 3, 2018

#2 Moved by Roger Boucher AND RESOLVED that the December 3, 2018 Minutes be approved as presented.

## 2.0 ONGOING BUSINESS

### 2.1 Creek Water Quality and Quantity Testing

#### 2.1.1 OSM Work Plan Application

Colin presented the Board revised version of the Beaver River Watershed Creek Testing Work Plan to the TWG. The TWG provided input into the OSM Work Plan and assisted Colin with making the objective more clearly indicative of the fact that this monitoring fills a data gap to address tributary impacts on aquatic biodiversity.

The changes that were discussed included:

- Modifying the second primary objective to Fin MacDermid's recommendation of integrating contaminant concentrations with discharge data to form the basis for future mass balance estimates.
- The plain language overview could be updated to include impacts on biodiversity due to population growth within the oil sands region.
- An expansion of the testing parameters was recommended to include on site testing with the YSI probe, and lab analysis for hydrocarbons, metals, enterococcus and salinity in addition to what was previously identified.
- As the current LARP frameworks are not relevant for the Beaver River watershed, it was recommended to use the Environmental Quality Guidelines for Alberta Surface Water as a benchmark instead.
- Standard operating procedures for water quality testing are available from Environment and Climate Change Canada, and could be used for this program.

The TWG expressed that it was comfortable with submitting the work plan once the discussed changes have been implemented. A final version will be forwarded to the TWG prior to submission.

## **2.2 Watershed Update**

### **2.2.1 WPAC Work Plan**

Colin reviewed the Board approved 2019-2020 WPAC Work Plan with the TWG noting that he has added a phosphorus elimination campaign as a target.

## **2.3 Monitoring Operations Update**

### **2.3.1 2019-2020 OSM Work Plans**

Mike noted that the 2019-2020 OSM Work Plans have been submitted.

#### **2.3.1.1 Active Monitoring Network**

A summary of the Atmospheric Pollutant Active Monitoring Network work plan was reviewed noting no changes from the previous year. Continuous monitoring occurs at our four active monitoring stations located near Cold Lake South, St. Lina, Maskwa, and at the PAMS station located by Bonnyville. We are also continuing our canister program through the integrated monitoring program and continue to provide AQHI data as per AEP requirements.

#### **2.3.1.2 Passive Monitoring Network**

The Atmospheric Pollutant Passive Monitoring Network work plan remains unchanged with the exception of a pilot program to passively monitor polycyclic aromatic compounds (PACs); this addition is championed by AEP. The PAC samplers will be deployed on a 2-month interval for a trial period of one year. Six will be co-located at existing passive monitoring sites and 1-3 will be co-located at Cold Lake First Nations (CLFN) surface water quality monitoring sites.

#### **2.3.1.3 Ambient Air Quality Surveillance Beaver River Valley**

Meteorological monitoring along the Beaver River Valley is ongoing. Work done thus far is part of Phase I of the program and will continue over the next 2 years with quarterly data summaries provided to AEP.

### **2.3.2 Quality Assurance Plan Renewal Project**

The Quality Assurance Plan renewal project is nearly complete. Over the last few years, there have been a number of updates to the Air Monitoring Directive (AMD) and therefore, a complete ground-up re-write of the existing quality assurance plan was undertaken to ensure compliance with the new AMD requirements. The latest version of the LICA QAP will be posted to the LICA website by February 8<sup>th</sup> 2019.

### **2.3.3 Deposition Integration Workshop**

Mike attended the Deposition Integration Workshop in December. At the workshop, a list of key uncertainties and over 40 associated key questions were compiled in relation to deposition. Key uncertainties were grouped into 5 theme areas. LICA's soil acidification monitoring program addresses a few of these theme areas including monitoring deposition effects of total nitrogen/sulphur and long-term trend analysis. LICA's work plan for this program has been updated to explicitly address appropriate key uncertainties and questions identified in the Workshop. The soil acidification work plan was submitted on Monday, January 21, 2019; opportunities to integrate this program with other oil sands region soil monitoring will be investigated.

### **2.4 Beaver River Valley Project Update**

Deployment of the Beaver River Valley monitoring array is nearly complete. Three meteorological stations have been deployed along the north side of the river; discussions are underway with landowners who may provide a host site for the fourth station on the south side of the river valley.

## **3.0 ACTION LIST**

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

#### **3.1.1 December 3, 2018 TWG Meeting**

The Technical Working Group reviewed the action list for the December 3, 2018 Technical Working Group Meeting. Mike presented the letter of support from LICA in regards to the new Alberta Ambient Air Quality Objective for ozone. PAMS II action items to be extended to June 2019.

## **4.0 UPCOMING MEETING DATES**

### **4.1 Board Meeting – February 21, 2018**

### **4.2 Next TWG Meeting – TBD April 2019**

The next TWG meeting will be determined by Doodle Poll for the first or second week of April.

## **5.0 ADJOURNMENT**

The meeting adjourned at 12:00 p.m.

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

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

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Signature