

# LICA

Lakeland Industry and Community Association

## Acid Deposition Monitoring Program Expansion Committee (ADMPEC)

### Terms of Reference

The Lakeland Industry and Community Association (LICA) formed an Acid Deposition Monitoring Program Expansion Committee (ADMPEC) to assist in the development and oversight of the expansion of LICA's Acid Deposition Monitoring Program (the Program); the expansion of the Program will be completed in phases. Phase One of the expansion will address development of an acid deposition monitoring plan (the Plan) to meet the needs of new regional regulatory compliance acid deposition monitoring and reporting requirements (Appendix A). Phase Two will address implementation of the Plan. Phase Three will address further enhancement of the Program to implement a complete regional approach to acid deposition monitoring and reporting. The ADMPEC is a working committee of LICA which shall report its activities and requests to the Board for approval. The ADMPEC is supported by representation from industry, government, indigenous communities, and the public, which allows for a diverse insight, expertise, and support for the development of recommendations for acid deposition monitoring.

### 1.0 Purpose

- 1.1 To support the LICA Board's Vision and Mission.
- 1.2 To operate within LICA Board approved work plans and budget and be accountable to the LICA Board of Directors regarding oversight of the implementation, operation, reporting, and management of the ADMPEC.
- 1.3 To make recommendations related to messaging about acid deposition monitoring issues, goals, objectives, targets, recommendations, and other items related to the AMDPEC.
- 1.4 Deliver relevant, accurate, reliable, and credible data and information that addresses stakeholder needs and priorities.
- 1.5 To develop and implement an acid deposition monitoring plan that meets regulatory compliance needs including:
  - (a) for air:
    - (i) a plan to monitor dry and wet deposition;

(b) for soil:

- (i) identification of soils that are sensitive to acid deposition and will likely receive aerial deposition inputs;
- (ii) a plan to monitor soil quality at locations representative of the soils identified in (b) (i);
- (iii) a description of how soil quality data collected under this program will be used to determine potential acidification effects under periods of increased sulphur dioxide emissions;

(c) for water:

- (i) a summary of existing water quality data collected to date and analysis of the results;
- (ii) a plan to monitor water quality for water bodies which will likely receive aerial deposition inputs;
- (iii) identification of local water bodies that are sensitive to acidification;
- (iv) a description of how water quality data collected under this program will be used to determine potential acidification effects under periods of increased sulphur dioxide emissions;
- (v) a plan to develop triggers for further enhanced surface water quality monitoring to determine impacts of aerial deposition inputs;

(d) reporting schedule for monitoring activities conducted for (a) through (c)

## **2.0 Operating Principles**

**2.1** The ADMPEC will follow LICA's Vision and Mission and will operate within LICA's policies in support of the Strategic Plan.

**2.2** The ADMPEC will meet on an as needed basis.

**2.3** The ADMPEC will report to the Board, and when needed, be responsible for facilitating Board discussion regarding their recommendations.

**2.4** The ADMPEC will ensure that the Plan effectively addresses regulatory compliance needs.

**2.5** Members will actively participate and contribute to regular meetings and the group's work.

**2.6** Members will communicate with employers, organizations, and stakeholders

they represent about ADMPEC’s objectives, priorities, and accomplishments, as well as any issues that may need to be resolved.

- 2.7 Meetings will be documented with summary notes, decision records and action logs to be issued within a reasonable time for review by the ADMPEC prior to the final issue. These will be made available to all ADMPEC members as part of the review process.
- 2.8 The ADMPEC will strive for consensus recommendations and decisions. If it becomes clear that the ADMPEC cannot make a consensus recommendation, the technical recommendation of the majority and the non-consensus position(s) will be presented for the Board to decide.
- 2.9 Outside expertise may be invited to contribute as required as directed by the Technical Staff.

### **3.0 Membership**

The membership of the ADMPEC is made up of the Manager of Environmental Monitoring Program, Executive Director, Environmental Coordinator, LICA Data Reporting Specialist, core members, and resource members. Core members are selected by the sectors that they represent or are appointed by the LICA Board. Resource members are included by invitation of the Manager of Environmental Monitoring Programs or Executive Director.

- 3.1 The ADMPEC chair shall be a Committee member appointed by the Committee at their first meeting after the annual general meeting and must be present at all committee meetings.
- 3.2 The Chair of the Board may attend as ex-officio.
- 3.3 Community members may be appointed by the Board and shall be eligible for remuneration and expenses according to LICA policy.
- 3.4 The Board may request additional members from among Industry, Government, and Non-Government organizations to be appointed from their respective sectors and may be eligible for remuneration and expenses according to LICA policy.
- 3.5 The core membership will be Board approved.

#### **3.6 Core Membership**

- 3.6.1 Alberta Environment and Protected Areas (EPA) – Sector nominated
- 3.6.2 Alberta Energy Regulator (AER) – Sector nominated
- 3.6.3 Industry, Oil & Gas – Sector nominated

- 3.6.4 Agriculture – Sector nominated
- 3.6.5 LICA Board Directors – Board appointed
- 3.6.6 Indigenous Communities – Sector nominated
- 3.6.7 Environmental Organizations & Special Interest Groups – Sector nominated
- 3.6.8 Municipal Governments – Sector nominated
- 3.6.9 Community Members – Board appointed
- 3.6.10 Scientific and Academic Organization & Institutions – Sector nominated

### **3.7 Resource Membership**

- 3.7.1 Third-Party Contractors
- 3.7.2 Data and Reporting Specialist, LICA
- 3.7.3 Fisheries and Oceans
- 3.7.4 Environment Canada
- 3.7.5 Government Health Representatives
- 3.7.6 Industry Representatives
- 3.7.7 Education and Outreach Committee, LICA
- 3.7.8 AEP Technical Monitoring Expertise
- 3.7.9 Agriculture and Agri-food Canada
- 3.7.10 Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)
- 3.7.11 Others as required

### **4.0 Meetings**

- 4.1** Committee meetings will comply with Policy 1.6 Board and Committee Meetings.
- 4.2** Committee members will attend meetings in-person when possible.
- 4.3** Committee members attending virtually must:
  - Participate with their cameras on for the duration of the meeting to demonstrate presence and attention to the discussion.

- Provide notification 10-15 minutes in advance prior to leaving the meeting to ensure quorum is maintained.

## **5.0 Roles and Responsibilities of the ADMPEC and its Members**

### **5.1 ADMPEC Members (in general)**

- 5.1.1 Actively participate in meetings and provide technical knowledge and support, as well as the viewpoints of the sector, stakeholder and profession they represent.
- 5.1.2 Develop monitoring and reporting recommendations for acid deposition.
- 5.1.3 Assess material and make recommendations as required regarding the development and implementation of the Plan.
- 5.1.4 Provide support for planning future phases of the Program.
- 5.1.5 Keep the development of the Plan in alignment with LICA's Strategic Plan and budget.
- 5.1.6 Engage other expertise as needed from member organizations and/or others.
- 5.1.7 Consider the application of Quality Assurance and Quality Control functions as required by LICA's Quality Assurance Program in the development of the Plan.

## **6.0 Specific ADMPEC Member Roles**

### **6.1 Manager of Environmental Monitoring Programs**

- 6.1.1 Act as ADMPEC Vice-Chair to convene meetings and prepare agendas.
- 6.1.2 Report to the LICA Board as a representative of the ADMPEC.
- 6.1.3 Keep the Oil Sands Monitoring Air Technical Advisory Committee informed of the development of the Plan. Seek funding to support implementation of the Plan.
- 6.1.4 Ensure the ADMPEC operate cost-effectively and within budget.

### **6.2 Environmental Coordinator**

- 6.2.1 Participate in meetings and provide watershed technical expertise in the development of the Plan
- 6.2.2 Ensure alignment with the Integrated Watershed Management Plan.

### **6.3 Executive Director**

- 6.3.1 Advise the ADMPEC on LICA policies as required.
- 6.3.2 Act as a liaison between other LICA committees and the ADMPEC.
- 6.3.3 Maintain collaborative relationships with stakeholders.

### **6.4 Education & Outreach Coordinator**

- 6.4.1 Advise the ADMPEC on best practices to engage with the public for input on the Plan.
- 6.4.2 Assist in coordinating and delivering outreach activities to engage the public, such as forums.
- 6.4.3 Promote the development and progress of the Plan to the public and disseminate materials as they become available.

### **6.5 Board Director**

- 6.5.1 Act as a liaison between the LICA Board and ADMPEC.

### **6.6 Administration Staff**

- 6.6.1 Arrange for minute taking and distribution of minutes and other meeting materials.

### **6.7 Industry Member(s)**

- 6.7.1 Understand and represent their sector's interests and regulatory requirements.

### **6.8 Agriculture Representative(s)**

- 6.8.1 Understand and represent their sector's interests and regulatory requirements.

### **6.9 Community Member(s), Environmental Organization(s) & Special Interest Group(s)**

- 6.9.1 Represent the public interest, bringing a local perspective to the Plan.
- 6.9.2 Ensure that the programs are operated in a transparent manner.

### **6.10 Indigenous Representative(s)**

- 6.10.1 Ensure Indigenous Environmental Knowledge is recognized and integrated into the Plan.

**6.11 EPA and AER Representative(s)**

6.11.1 Provide advice and technical input regarding the operations and design of the Plan.

6.11.2 Provide a link to other Government of Alberta and Regulatory staff and resources.

6.11.3 Act as a liaison regarding regulatory requirements, policy development, and approvals.

**6.12 Scientific and Academic Organization & Institution(s)**

6.12.1 Provide advice and technical input regarding the operations and design of the Plan.

**6.13 Third-Party Contractor(s)**

6.13.1 Perform duties according to approved standards and protocols as per their current contracts.

**7.0 Evaluation**

**7.1** The ADMPEC shall review its Terms of Reference and evaluate its objectives annually.

## **Appendix A:**

Amending Approval: 68492-01-06

Alberta Energy Regulator

Environmental Protection and Enhancement Act





## AMENDING APPROVAL

### ALBERTA ENERGY REGULATOR

#### ***ENVIRONMENTAL PROTECTION AND ENHANCEMENT ACT*** **R.S.A. 2000, c.E-12, as amended.**

APPROVAL NO.: ..... 68492-01-06

APPLICATION NO.: ..... 027-68492

EFFECTIVE DATE: ..... October 18, 2019

EXPIRY DATE: ..... May 31, 2022

APPROVAL HOLDER: ..... Cenovus Energy Inc.

Pursuant to Division 2, of Part 2, of the *Environmental Protection and Enhancement Act*, R.S.A.2000, c.E-12, as amended, the approval for the following activity:

Foster Creek enhanced recovery in-situ oil sands or heavy oil processing plant and oil production site

is amended as per the attached terms and conditions, and Schedules I to XI.

A handwritten signature in black ink, appearing to read "Shay Dodds".

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Shay Dodds, P.Eng.  
Manager, In Situ South, Authorizations Branch  
Alberta Energy Regulator

October 18, 2019  
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*Environmental Protection and Enhancement Act Approval No. 68492-01-00* is hereby amended as follows:

1. Conditions 3.18, 3.19, 3.20 and 3.21 are deleted and the following is substituted:
  - 3.18 Notwithstanding Table 3.1, the sulphur dioxide emissions from the plant shall not exceed 7.0 tonnes per day (on a calendar day basis) for the period commencing from October 18, 2019 and ending on December 31, 2020.
  - 3.19 Notwithstanding Table 3.1 and Condition 3.18, the approval holder may bypass one (1) non-regenerative sulphur unit train for repair and maintenance provided that:
    - (a) a minimum uptime of 90% is maintained for each non-regenerative sulphur unit on an annual basis, for the period commencing from February 13, 2019 and ending on December 31, 2020;
    - (b) the minimum sulphur recovery requirements as outlined in Table 1 of ID2001-03: Sulphur Recovery Guidelines for the Province of Alberta is met except for the period commencing from February 13, 2019 and ending on December 31, 2020; and
    - (c) the sulphur dioxide emissions from the plant shall not exceed 8.0 tonnes per day (on a calendar day basis) for the periods when the sulphur unit train is bypassed for repair and maintenance, commencing from October 18, 2019 and ending on December 31, 2020;unless otherwise authorized in writing by the Director.
  - 3.20 In the event that a non-regenerative sulphur unit is bypassed, the approval holder shall provide in the monthly Air Emission Report to the Director, the following:
    - (a) a description of the events or circumstances that led to the bypass; and
    - (b) an outline of the action taken to control the magnitude and duration of this event(s).
  - 3.21 The approval holder shall operate a continuous ambient air monitoring station and monitor ambient air parameters as specified in TABLE 3.4, unless otherwise authorized in writing by the Director.
  - 3.22 In addition to the monthly and annual reporting requirements in TABLE 3.2 and TABLE 3.3, the approval holder shall report to the Director the results of the ambient air parameters as required in TABLE 3.4, unless otherwise authorized in writing by the Director.

**TABLE 3.1: AMBIENT AIR MONITORING AND REPORTING**

MONITORING STATION	PARAMETER	MONITORING PERIOD	REPORTING	
			MONTHLY	ANNUALLY
One continuous ambient air monitoring station, as per <i>Air Monitoring Directive</i>	Sulphur dioxide concentrations, wind speed and wind direction	Continuously, starting from February 13, 2019 to December 31, 2020	Yes	Yes

4. The following is added after Condition 3.22:
- 3.23 The approval holder shall submit an Acid Deposition Monitoring Program proposal to measure aerial deposition effects on aquatic and terrestrial ecosystems to the satisfaction of the Director on or before March 31, 2020, unless otherwise authorized in writing by the Director.
- 3.24 The Acid Deposition Monitoring Program proposal shall include, at a minimum, all of the following:
- (a) for air:
    - (i) a plan to monitor dry and wet deposition from project activities;
  - (b) for soil:
    - (i) identification of soils that are sensitive to acid deposition and will likely receive aerial deposition inputs from project activities;
    - (ii) a plan to monitor soil quality at locations representative of the soils identified in (b) (i);
    - (iii) a description of how soil quality data collected under this program will be used to determine potential acidification effects under periods of increased sulphur dioxide emissions;
  - (c) for water:
    - (i) a summary of existing water quality data collected to date and analysis of the results;
    - (ii) a plan to monitor water quality for water bodies which will likely receive aerial deposition inputs from project activities;
    - (iii) identification of local water bodies that are sensitive to acidification;

- (iv) a description of how water quality data collected under this program will be used to determine potential acidification effects under periods of increased SO<sub>2</sub> emissions;
  - (v) a plan to develop triggers for further enhanced surface water quality monitoring to determine impacts of aerial deposition inputs;
  - (d) reporting schedule for monitoring activities conducted for (a) through (c); and
  - (e) any other information requested in writing by the Director.
- 3.25 If the Acid Deposition Monitoring Program proposal is found deficient by the Director, the approval holder shall correct all deficiencies identified in writing by the Director, by the date specified in writing by the Director.
- 3.26 The approval holder shall implement the Acid Deposition Monitoring Program as authorized in writing by the Director.
- 3.27 The approval holder shall only implement changes to the Acid Deposition Monitoring Program as authorized in writing by the Director.



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Shay Dodds, P.Eng.  
Manager, In Situ South, Authorizations Branch  
Alberta Energy Regulator

October 18, 2019

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