



January 8<sup>th</sup>, 2020

Emily Koide  
Technical Advisor I  
Nunavut Impact Review Board  
P.O. Box 1360 Cambridge Bay  
Nunavut NU X0B 0C0

**RE: The Nunavut Impact Review Board's 2019-2020 *Annual Monitoring Report for the Meliadine Gold Mine Project and Board's Recommendations***

Dear Mrs. Koide,

Agnico Eagle Mines Limited (Agnico Eagle) thanks the Nunavut Impact Review Board (NIRB) for the recommendations and comments included in the NIRB's 2019-2020 *Annual Monitoring Report for the Meliadine Gold Mine Project and Board's Recommendations* received December 3<sup>rd</sup>, 2020.

Please find attached Agnico Eagle's answers to the above-mentioned recommendations and comments.

Should you have any questions or require further information, please do not hesitate to contact us.

With my best regards,

A handwritten signature in blue ink, appearing to read "Sara J.", with a stylized flourish at the end.

Sara Savoie  
sara.savoie@agnicoeagle.com  
819-759-3555 x 4608143  
Compliance Counselor



## **NIRB Recommendation**

### **NIRB Recommendation 1**

#### **Context**

Within its 2018-2019 Monitoring Report the NIRB acknowledged that as the site moved from Construction to Operations, the TEMMP should be reviewed because the approved version was completed in 2015 when the Meliadine Project was in preconstruction. For the 2019 monitoring year the TEMMP, Version 2 from 2015 continued to be implemented.

Comments from the Government of Nunavut (GN) and Kivalliq Inuit Association (KIA) on Agnico Eagle's 2018 and 2019 Annual Reports for the Project requested additional data, and better reporting of methods and analysis on implementation of the TEMMP Version 2, as well as conclusions of what was successful and not, so that parties could provide recommendations on adaptive management decisions. In 2020, the GN and KIA further recommended that specific data on caribou be presented within the TEMMP Report as key details required to verify Agnico Eagle's conclusions were missing; specifically, data should include method for selection of groups of caribou for observation, make up of group, direction of movement around the Project, associated variables to observation data such as noise, dust, time of day, or environmental conditions. Agnico Eagle noted plans to analyze trends in results from the first three (3) years of operations and determine thresholds after 2021; however, the NIRB notes that appropriate data collection is required throughout this period in order to analyze results and establish thresholds and mitigation responses.

The NIRB received an updated TEMMP Version 3 in June 2020 with the 2020 Saline Discharge Strategy which included a table acknowledging parties comments and how they were addressed in the updated Plan; however, minimal updates between the TEMMP Version 2 and TEMMP Version 3 were made to address comments requesting further details on study methods, reporting and analysis. Furthermore, the TEMMP Version 3 has not been updated to incorporate up to date monitoring data from which trends in natural variability (such as caribou migration numbers through the project area) could be seen.

Traffic levels along the All-Weather Access Road have continuously been higher than predicted, and due to Agnico Eagle using almost triple the amount of water truck trips on the road for the 2020 open water season, it is critical that the TEMMP is updated to reflect any changes or increased knowledge in natural variability in baseline conditions as well as improvement of data collection and reporting for each Valued Ecosystemic Component, where increased knowledge may allow for improvement of analysis on previously determined effects on Valued Ecosystemic Components, such as caribou, and inform appropriate modifications to thresholds and mitigation measures as part of adaptive management.

#### **Recommendation(s)**

The Proponent shall provide a comprehensive update to the Terrestrial Ecosystem Management and Monitoring Plan to incorporate any observed changes in terrestrial baseline data since 2011, and additional information learned on natural variation of Valued Ecosystemic Components, to



inform the effectiveness of the monitoring program, the adequacy of mitigation measures and adaptive management. The updated version of the Terrestrial Ecosystem Management and Monitoring Plan (TEMMP) shall also improve upon data collection methods and reporting requirements which will be reported on annually through the TEMMP Report.

The updated TEMMP and associated improvements to reporting shall be submitted within the Proponent's 2020 Annual Report to the NIRB.

#### Agnico Eagle Answer

As previously stated, in its answers to the 2019 Annual Report Comments (August 7<sup>th</sup> 2020 letter *RE: NIRB 124106 / 11MN034: Opportunity to Address Comments Received for Agnico Eagle's Meliadine Gold Mine Project 2019 Annual Report*), Agnico Eagle does not propose to revise the study design at this time.

The revision of the study design should be considered after data is collected over the 2019-2021 period, to allow for compiling of for 3-years' worth of data under operations. This will facilitate the understanding of trends, compared to observations during pre-construction (2017, serves as baseline) and construction (2018).

Until then, and as per the current TEMMP, monitoring is continuous through all phases of the Project from construction through post-closure and recommendations that arise through ongoing data analysis will be noted in future TEMMP annual reports, for consideration and inclusion in the TEMMP, as appropriate.

As more data is collected to end of 2021 (i.e., first three years of operations) and a range of natural variability and other trends can be observed and analyzed, the results can be presented and thresholds may be determined or refined, as appropriate.

For the above-mentioned reasons, Agnico Eagle proposes to submit a revised TEMMP study design as part of the 2021 Annual Report.



## **NIRB Monitoring Report Comments**

### **Monitoring Equipment**

#### **Context**

During the 2018 monitoring year blast monitoring was not conducted for any of the 13 blasts as the blast monitoring equipment was not functioning and a replacement was not in place until the end of the year. During the 2019 monitoring year the Partisol suspended particulate sampling units were not functional for the majority of the year continuing into the majority of the 2020 year. The NIRB would like to emphasize that long periods where monitoring equipment does not function creates large gaps in data which lead to issues of trend comparisons when entire years are missing. Monitoring equipment should be periodically tested, and nonfunctional equipment should be remedied as soon as possible or an alternative method for data collection implemented.

#### **Recommendation(s)**

The NIRB requests an update in 60 days regarding the installation and functioning of the Partisol suspended particulate sampling units as Agnico Eagle noted that Partisol units would be installed by the end of September 2020. If not yet installed, the Proponent should provide a timeline for installation or an alternate strategy for collecting suspended particulate data until units are functional.

#### **Agnico Eagle Answer**

The Partisol suspended particulates units were successfully installed in October 2020. Agnico Eagle submitted a technical memo to this effect to NIRB on December 23<sup>rd</sup>; and remains available to further discuss its content with NIRB if required.

### **Hunter Harvest Study**

#### **Comment**

During the community information sessions, the NIRB heard concerns from the community that increased hunting accessibility has occurred from use of the All Weather Access Road (AWAR) which is increasing pressure on the community organizations to consider options for restricting hunting. Agnico Eagle addresses changes in hunting pressure in the Terrestrial Ecosystem Management and Monitoring Plan (TEMMP) through the establishment of a Hunter Harvest Survey where data will be collected and reported annually on harvesting success compared to use of the AWAR. The TEMMP states that Agnico Eagle will begin working with the GN after three (3) years of data collection from the Hunter Harvest Survey to establish thresholds. In 2019 the Hunter Harvest Survey data had yet to be presented; however, the Proponent has stated that a Memorandum of Understanding was signed with the KHTO and collaboration is occurring to



create a calendar for data collection from hunters and outfitters. The NIRB looks forward to seeing the results of the Hunter Harvest Survey in the 2020 Annual Report.

However, the NIRB remains concerned that collaboration with the GN on establishing thresholds for caribou protection will not start until 2023 due to a delayed initiation of the Hunter Harvest Survey with additional time required to discuss and implement any adaptive management strategies. To encourage a more efficient implementation of the thresholds of caribou protection once the data is collected.

#### Recommendation(s)

The NIRB requests that the Proponent begin consultations with the GN before three (3) years of data collection to discuss possible adaptive management strategies and initial data analysis and findings on the Hunter Harvest Survey. The NIRB requests an update be included on the schedule and/or process of discussions within the 2020 Annual Report.

#### Agnico Eagle Answer

Agnico Eagle will begin consultations with the GN before three years of data collection to discuss possible adaptive management strategies and initial data analysis on the Hunter Harvest Survey and will include an update on the Harvest Survey process within the 2020 Annual Report.

### **Wildlife Deterrence**

#### Context

Term and Condition 75 requires the Proponent to implement mitigation measures and monitoring programs to limit the attraction of predators and scavengers to Project facilities. The Board recommendations for the 2018-2019 Annual Monitoring Report<sup>6</sup> for the Meliadine Gold Mine Project recommended conducting a Bear and Wildlife Safety Audit in order to identify potential hazards and/or attractions to wildlife due to 22 fox mortalities in the 2018 year and requested revision of the Waste Management Plan to be provided with the 2019 Annual Report. Based on results presented in the 2019 Annual Report the site continues to attract wildlife as 15 fox mortalities occurred in 2019 and no updated Waste Management Plan was provided.

The NIRB and KIA note that six (6) foxes were found at the main kitchen and two (2) foxes were found at the landfill indicating that there may be certain areas where wildlife deterrence efforts should be focused. Within the site update provided by the Proponent the NIRB recognizes Agnico Eagle's efforts to improve site debris through site-wide Sunday site clean ups and the waste management appears to be organized at the landfill, however there is a lack of fencing and wildlife deterrence at this facility.

The NIRB also recognizes that the Bear and Wildlife Safety Audit was postponed due to COVID-19 and that the Proponent has developed an Environmental Working Group to review waste management and establish training materials. Direct actionable items to be taken on the mine site to deter wildlife have yet to be provided



### Recommendation(s)

Within 60 days of the issuance of this report the NIRB requests Agnico Eagle provide an update on the review from the Environmental Working Group and what actions will be taken at the mine site to deter wildlife. Actions should be updated in the Waste Management Plan and provided to the NIRB in the 2020 Annual Report.

The NIRB recommends that the Wildlife and Safety Audit occur as soon as Public Health restrictions allow and that the results of this audit lead to updates on wildlife deterrence and adaptive management triggers in appropriate management and monitoring plans.

### Agnico Eagle Answer

Agnico Eagle will provide NIRB with an update on the Environmental Working Group review and include the appropriate information in the 2020 Annual Report and Waste Management Plan.

Agnico Eagle is evaluating tentative potential dates for the Wildlife and Safety Audit for Spring/Summer 2021, pending COVID-19 measures and restrictions allow for it. Appropriate plans and reports will be updated according to the Audit results as per usual practice.

## **Dust Monitoring**

### Context

During the 2019 site visit NIRB staff noted that dust continued to be an issue along the Project roads. That year the Board recommended conducting a dust suppression study comparing real time dust collection and visual monitoring data to traffic and road conditions to better understand the cause of dust. The NIRB appreciates that the Proponent updated the Dust Management Plan (Version 6; June 2020) and added data from transects to sample dust on either side of the road. The Proponent reported within its 2019 Annual Report that dustfall decreases to regulatory guidelines for recreational areas between 25 m and 100 m from the road. The amount of dust created as well as length of time in the air seem to be variable to the area as transect DF-3 did not exceed regulatory guidelines for recreational areas, however all other transects did at and just downwind of the source, as well as the sample date (July samples vary greatly from August samples).

As dust levels continue to be brought to the attention of the NIRB as community concerns, the NIRB emphasizes that supplementing dust monitoring with data such as, weather conditions and real-time traffic, would benefit Agnico Eagle and parties in determining the cause and relationships of dust.



### Recommendation(s)

The Proponent shall supplement dust collection data with traffic from sample days (mine related and public), weather, and time since the last dust suppressant activities in the 2020 and subsequent annual report.

### Agnico Eagle Answer

Agnico Eagle appreciates that dust along the All-Weather Access Road (AWAR) continues to be a matter of concern to the community. Agnico is implementing best management practices in dust control according to the site's approved Dust Management Plan (June 2020). This includes the application of a Government of Nunavut (GN) approved dust suppressant along the entire length of the AWAR.

The relationships between dust, weather, and traffic (including speed and vehicle class) are well established, and mathematical models based on these factors are used industry-wide to predict the impact of roads on air quality. The purpose of the dustfall monitoring program at Meliadine is not to validate these models, but to confirm predictions of dust generation and/or compare results against regulatory guidelines.

However, within the 2020 annual report and subsequent reports, Agnico Eagle will provide a commentary on dustfall results in relation to the timing of dust suppressant application, as recommended by the NIRB. As in the 2019 Annual Report, Agnico Eagle will provide monthly traffic data (vehicle trips along the AWAR) for 2020.

## **Site Water Management**

### Context

In 2019, Agnico Eagle was not able to complete drawdowns of containment pond 1 (CP-1) prior to freeze-up. This led to the Agnico Eagle's Meliadine Gold Mine Project emergency water licence amendment allowing higher than approved Total Dissolved Solids (TDS) in CP-1 requiring discharge into Meliadine Lake.

In line with comments provided by the KIA and CIRNAC, the NIRB reiterates that updates to the water balance and water quality model should be provided annually within the NIRB's annual report. Further, lessons learned should be used to improve mitigation measures and design of adaptive management to ensure that strategies are in place to avoid emergency releases in the future.

### Recommendation(s)

The NIRB requests an updated water balance be provided to the NIRB within 60 days of this report and annually thereafter.





The NIRB also requests that appropriate monitoring and management plans be updated to include improve mitigation measures and adaptive management strategies and these updated reports be submitted to the NIRB as they are completed.

#### Agnico Eagle Answer

As per water licence 2AM-MEL1631 (Part E, Item 12), Agnico Eagle is required to update the Water Balance and Water Quality Model at a minimum of every two (2) years. These results are included in the annual report (Schedule B, Item 5), due every year by March 31.

To avoid confusion, and unnecessary duplication, Agnico Eagle proposes to continue to report on the water balance and water quality model as per the water licence requirement. To confirm, the 2020 Annual Report (due by March 31, 2021), will include an updated water balance.

Agnico Eagle is also required to submit a revised Water Management Plan on an annual basis (2AM-MEL1631, Part E, Item 12). Monitoring and mitigation are reviewed annually and adjusted as required.

In addition, a draft Adaptive Management Plan for the Meliadine Site is in preparation and will be submitted to the NIRB by January 29, 2021. This plan will focus on water management and strategies to adaptively manage water if quantities or qualities are different than expected.

### **Post Environmental Assessment Monitoring Program**

#### Context

In the 2019-2020 monitoring year the NIRB received an application to amend the Meliadine Project Certificate so was unable to complete the issuance of the Post Environmental Assessment Monitoring Program as was recommended by the NIRB's Monitoring Officers in 2019.

The Monitoring Officers will continue to work with Agnico Eagle, government departments and regulatory authorities regarding the monitoring program established pursuant to Article 12, Section 12.7 of the Nunavut Agreement and s 135 of NuPPAA.

#### Recommendation(s)

The NIRB will work with Agnico Eagle and parties in the 2020-2021 monitoring year to develop the Post Environmental Assessment Monitoring Program to provide guidance and allow coordination for all participants in the monitoring of the Meliadine Gold Mine Project.

#### Agnico Eagle Answer

Agnico Eagle looks forward to working with NIRB and parties to develop the Post Environmental Assessment Monitoring Program.





## **Compliance Achievements**

### Recommendation(s)

Agnico Eagle has improved the information contained within Agnico Eagle's Annual Report and the NIRB appreciates the Proponent's effort to date; however the NIRB emphasizes that the data should be analyzed, and a more detailed summary and discussion of what the results mean should be included within the main text of the annual report.

### Agnico Eagle Answer

Agnico Eagle will account for this comment in the 2020 Annual Report.

## **NIRB's Review of the Annual Report**

### Context

In Meliadine's 2019 Annual Report, Agnico Eagle provided a summary of the activities at site as well as mitigation measures implemented for Project effects on valued ecosystemic components (VECs) and valued socio-economic components (VSECs), and monitoring results. The NIRB appreciates that the Proponent improved upon providing comparisons of residual project effects with predictions in the original Final Environmental Impact Statement (FEIS) and FEIS Addendum for Meliadine. However, there does continue to be components of the Annual Report that lack information. As seen in comments by parties as well as reviewed by the NIRB the Proponent shall work to improve the quality of its Annual Report through the following.

### Recommendation(s)

- Provide enough data to allow parties to assess the impacts of the Project on VECs and VSECs and validity of conclusions made. This includes a thorough description of methods (sample size, sample type, study effort), possible covariates (weather, group make up), data or a summary of data, analysis method and conclusions.
- Provide year over year comparisons for measured mine components, preferably in tabular or graphical format, such as reportable and non-reportable spills and greenhouse gas emissions.
- For management decisions made onsite provide reasoning for why decisions were made. For example, what triggered road closures (how many caribou, at what distance) or resumption of saline effluent discharge after cessation due to an exceedance.

### Agnico Eagle Answer

Agnico Eagle will account for these comments in the 2020 Annual Report.



## **Accessibility**

### Recommendation(s)

Agnico Eagle shall also make the following improvements to their Annual Report to improve accessibility:

- Develop a table in the annual report for Management Plan updates that contains a completed list of all the Management Plans for the Meliadine Project as well as the version and revision date. Agnico Eagle also should work with the NIRB monitoring officer to ensure that the most up to date copy is posted to the NIRB's Public Registry so it is available to the public without having to go into the annual report.
- Include parties' previous comments and an update on how they were addressed within the annual report with what section or management plan implemented the updates.

### Agnico Eagle Answer

Agnico Eagle will account for these comments in the 2020 Annual Report.

## **Documents**

### Recommendation(s)

Agnico Eagle requires submission of the following missing documents to the NIRB:

- The Socio-Economic Monitoring Working Group updated Terms of Reference;
- Greenhouse Gas Emissions Report or a summary thereof; and
- Waste Rock Storage Facility Monitoring Plan.

### Agnico Eagle Answer

The Socio-Economic Monitoring Working Group Terms of Reference are included as appendix. The document is currently being updated to reflect inclusion of KIA and will be provided to NIRB as soon as the update is completed.

The Greenhouse Gas Emissions Report submitted to Environment and Climate Change Canada is included in appendix.

The Waste Rock Storage Facility Monitoring Plan is presented in the Mine Waste Management Plan submitted within the 2019 Annual Report (section 9).

**AGNICO EAGLE MINES LIMITED (“AEM”) PROJECTS SOCIO-ECONOMIC MONITORING  
WORKING GROUP**

**TERMS OF REFERENCE**

**1 PURPOSE**

- 1.1 This document sets out the terms of reference (“Terms of Reference”) for the Socio-Economic Monitoring Working Group (the “Working Group”) for AEM Kivalliq Projects in its activities in relation to the Socio-Economic Monitoring Program (the “Program”) for AEM Kivalliq Projects. This Working Group aims to support the Kivalliq Socio-Economic Monitoring Committee (the “KvSEMC”) in its regional monitoring initiatives, and to support the Program. The Working Group will identify areas of mutual interest to the Parties and socio-economic monitoring priorities of the KvSEMC related to AEM’s projects in the Kivalliq region.
- 1.2 The purpose of the Program, from a socio-economic point of view, is described in Section 135 of the *Nunavut Planning and Project Assessment Act* (“NuPPAA”) and Article 12, Part 7 of the *Nunavut Land Claims Agreement* (“NLCA”), the relevant provisions of which provide as follows:

NuPPAA section 135(3):

*(a) measure the impact of the project on the ecosystemic and socio-economic environments of the designated area;*

...

*(d) assess the accuracy of the predictions contained in the project impact statement.*

NLCA section 12.7.2:

*(a) to measure the relevant effects of projects on.... socio-economic environments of the Nunavut Settlement Area;*

...

*(d) to assess the accuracy of the predictions contained in the project impacts statements.*

- 1.3 The establishment of the Working Group is to satisfy and to fulfil parts of the terms and conditions set out in the Meadowbank Project Certificate (PC004), the Meliadine Project Certificate (PC006), and the Whale Tail Project Certificate (PC008) issued by the Nunavut Impact Review Board (the “NIRB”) in respect of AEM projects within the Kivalliq Region (the “Projects”) to the extent that these project certificates address socio-economic monitoring.

**2 KvSEMC AND REGIONAL MONITORING BACKGROUND**

- 2.1 The KvSEMC is a forum for stakeholders to meet on an annual to semi-annual basis and present data, and consider socio-economic impacts and benefits of mining projects on the Kivalliq region.
- 2.2 The KvSEMC reviews the Program results annually, including the consideration of areas of mutual interest and socio-economic monitoring priorities as identified by the Working Group.
- 2.3 The KvSEMC supports a collaborative monitoring framework by providing data to support socio-economic impacts monitoring, recommending the prioritization of identified areas for monitoring and mitigation, and providing recommendations for areas of monitoring and mitigation that have yet to be identified.

### **3 WORKING GROUP MEMBERSHIP AND MEMBER ROLES AND RESPONSIBILITIES**

- 3.1 The Working Group consists of:
  - a. At least one AEM representative (who is chair of a meeting if it relates to Projects monitoring)
  - b. At least one Government of Nunavut representative (who is chair of a meeting if it relates to territorial monitoring); and
  - c. At least one Government of Canada representative
  - d. Representatives of communities
- 3.2 Each member is responsible for the costs they incur to participate in activities of the Working Group.
- 3.3 AEM will:
  - a. identify indicators and share Project-specific data that relates to the Program;
  - b. participate in the collaborative analysis and interpretation of data for reporting purposes;
  - c. present for review the effectiveness of AEM's socio-economic mitigation measures; and
  - d. prepare and provide presentations summarizing annual Program report findings and conclusions for the KvSEMC.
- 3.4 The Government of Nunavut will:
  - a. identify indicators and share government-sourced data that relates to the Program and other KvSEMC reporting requirements;
  - b. participate in the collaborative analysis and interpretation of data for reporting purposes; and
  - c. review the effectiveness of AEM's socio-economic mitigation measures.

3.5 The Government of Canada will:

- a. identify indicators and share applicable socio-economic data from the Nunavut General Monitoring Plan;
- b. participate in the collaborative analysis and interpretation of data for reporting purposes; and
- c. review the effectiveness of AEM's socio-economic mitigation measures.

3.6 The community representatives will:

- a. identify indicators and share applicable socio-economic data from the communities;
- b. participate in the collaborative analysis and interpretation of data for reporting purposes; and
- c. review the effectiveness of AEM's socio-economic mitigation measures.

3.7 Collection, use, and disclosure of information and data under these Terms of Reference, by each member of the Working Group, is subject to any rules governing the collection, use, and disclosure of personal and/or confidential information and data, applicable to each member respectively, in accordance with the provisions of any privacy legislation or corporate policies. This obligation survives the dissolution of the Working Group and the existence of the Projects.

3.8 The Parties acknowledge that:

- a. AEM is best able to collect and provide data concerning workforce demographics, employment, training and procurement in relation to the Projects. This includes data voluntarily provided by AEM employees on relocation; and
- b. the Government of Nunavut and the Government of Canada are best able to collect and provide public statistics on general health and well-being, food security, demographics and other socio-economic indicators at the community and territorial level.

**4 WORKING GROUP MANDATE**

4.1 The Working Group aims to support the development of the Program framework and to undertake collaborative monitoring in order to identify and access data in relation to the Program. This data will be useful in improving the socio-economic performance of the Projects. Collaborative monitoring will involve combining Project-specific performance data with data generated or provided by other members of the Working Group in order to support adaptive-management measures implemented by the Working Group members and to minimize adverse effects and maximize benefits from the Projects.

4.2 The Working Group shall monitor the Program by analyzing the monitoring data in order to assess the accuracy of socio-economic impact predictions made in the final environmental impact statements of the Projects; assess the effectiveness of current practices to mitigate

adverse effects and enhance positive effects of the Projects; obtain early warning should mitigation measures or measures to enhance positive effects not be achieving their intended outcome; and provide timely detection of unanticipated outcomes.

- 4.3 The Working Group aims to improve understanding of prioritized socio-economic issues in order to increase confidence in socio-economic assessment predictions.
- 4.4 The Working Group will provide monitoring data and objective analysis in a manner that is focused, efficient and cost-effective.

## **5 REPORTING AND COMMUNICATION**

- 5.1 AEM will prepare an annual socio-economic report for the Projects (the “Program Report”) and provide the Program Report to the Working Group and the KvSEMC for review, prior to its submission to the NIRB. Annual Program Reports are due for submission to NIRB on June 30 of each year, containing data with respect to the previous calendar year (January to December) and presented at the Project- and regional-scale of operations. The Program Report will further describe AEM’s participation on the KvSEMC, other collaborative monitoring processes and any activities related to understanding socio-economic processes.
- 5.2 The Socio-Economic Monitoring Program will act as a framework for the Program Report, including the indicators and metrics to be reported by valued socio-economic components (VSECs) and by Project. In the event of a modification, AEM will circulate a draft of the Socio-Economic Monitoring Program to the Working Group for review before submitting to the Nunavut Impact Review Board.
- 5.3 AEM will prepare and circulate a draft of the Program Report to the Working Group and KvSEMC for review prior to the KvSEMC meeting. The draft Program Report executive summary should be in plain language and translated for potential unilingual community representatives.

## **6 MEETINGS**

- 6.1 The Working Group will continue to meet for as long as there remains at least one (1) Project in the Kivalliq Region.
- 6.2 The Working Group will meet at least twice per year for the purposes of reviewing and providing direction on the development of the Program Report.

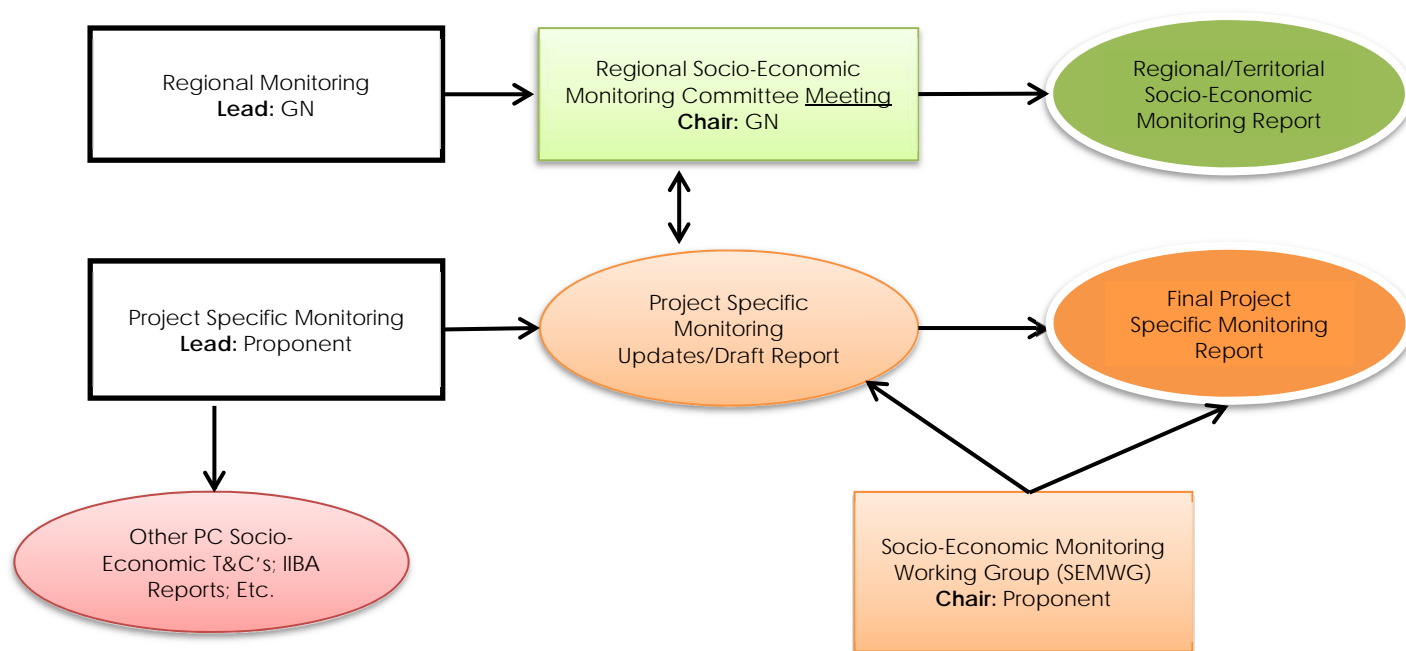
6.3 The Working Group will meet at least once a year for its members to engage in the analysis and interpretation of data to support the SEMC Report.

6.4 The meeting schedule may be changed if agreed to in writing by all members of the Working Group.

6.5 The Working Group will endeavor to meet face to face whenever practical. However, recognizing Nunavut's unique logistical challenges and the competing deadlines involved in reporting, teleconferences and email circulation will also satisfy meeting requirements if agreed to in writing by all members.

## 7 RELATIONSHIP WITH REGIONAL AND TERRITORIAL MONITORING

7.1 The diagram outlines the relationship between Project-specific monitoring and regional/territorial monitoring, and its respective reporting requirements:



## 8 PROJECT CLOSURE

### 8.1 Mine Closure

AEM will consult the Working Group and KvSEMC two (2) years in advance of the expected date of closure for each Project in order to better inform project-specific socio-economic closure planning, and keep the Working Group and KvSEMC informed of the progress of planning leading up to the submission of the project-specific socio-economic closure plan, submitted under the final



closure plan. Planning will detail specific measures that may mitigate, at least to some extent, the potential for negative effects as a result of Project closure.

## 8.2 Premature Mine Closure

In the event of premature (temporary or final) closure of one or more of the Projects, AEM will consult with the Working Group and KivSEMC before submitting updated project-specific Socio-Economic Management Plans to NIRB.

## **9 REVIEW OF TORS**

These Terms of Reference may be reviewed by the Working Group periodically for any required changes that may be applicable as Projects evolve from construction, through operations and closure. Similarly, as any other exploration or mine development activities of AEM are approved within the Kivalliq Region, these Terms of Reference shall be reviewed and amended as necessary to accommodate additional terms and conditions applicable to the Project that may be issued by NIRB as part of a project certificate(s). Any changes to the Terms of Reference will be in writing.

# Report Preview

## Company Details

Name

Agnico Eagle Mines Ltd Meliadine Division

## Report Details

Report Status:

Submitted - 2020-07-31 1:22:29 PM

Reporting Period:

2019

Facility Name:

Meliadine Gold Project

Facility Address:

Rankin Inlet (Nunavut) X0C 0G0Canada

Report Type:

Report (ECCC only)

Report Update Comments:

## Verify Facility Information

Please verify the following information.

## Company Information

Legal Name *	Agnico Eagle Mines Ltd Meliadine Division
English Trade Name	Agnico Eagle Mines Ltd Meliadine Division
French Trade Name	Agnico Eagle Mines Ltd Meliadine Division
Business Number	114557076
DUNS Number	

## Facility Details

---

Facility Name *	Meliadine Gold Project
Physical Address *	Rankin Inlet (Nunavut) X0C 0G0 Canada 63.22417 - 92.13417
Primary NAICS Code *	212220
GHGRP ID	G10863 (Assigned by ECCC)
NPRI ID	29389

## Reporter

---

Name *	Sara Savoie
Position *	Compliance Counselor
Mailing Address *	11600 Louis-Bisson Street Mirabel (Quebec), J7N 1G9, Canada
Physical Address *	11600 Louis-Bisson Street Mirabel (Quebec), J7N 1G9, Canada
Email Address *	sara.savoie@agnicoeagle.com
Telephone Number *	8197593555
Ext.	4608143

## Authorized Signing Officer (Certifying Official)

---

Name *	Sara Savoie
Position *	Compliance Counselor
Mailing Address *	11600 Louis-Bisson Street Mirabel (Quebec), J7N 1G9, Canada
Physical Address *	11600 Louis-Bisson Street Mirabel (Quebec), J7N 1G9, Canada
Email Address *	sara.savoie@agnicoeagle.com
Telephone Number *	8197593555
Ext.	4608143

## Parent Company Information

### Agnico Eagles Mines limited

Legal Name *	Agnico Eagles Mines limited
Percentage of ownership of the reporting company *	100.00
Physical Address *	400 145 King Street East, Toronto (Ontario), M5C 2Y7, Canada
Business Number **	114557076
DUNS Number	

## Facility Activities

### Activities

You must select at least one activity

Mining
--------

## Output-Based Pricing System

Is this facility subject to federal OBPS reporting and do you choose to use the same emissions quantification methodologies for GHGRP reporting? \*

Yes
-----

## Fuel Combustion

### Fuel Combustion

### Electricity Generation \*\*

☐ N/A

## Underground generators & Main Camp

Unit Name *	Underground generators & Main Camp
Description	
Gross Electricity Generated On-Site(MWh) *	2778

## Fuels \*\*

Press Save after selecting your fuel to populate non-editable fields

Fuel *	Diesel
--------	--------

Fuel Classification

Non-Biomass

Fuel Type

Liquid

Fuel Unit

kilolitres

Fuel Description

Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\*

809



Energy Units(MJ) \*\*

Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

36533

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

704.7

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	Eq 2-2	2169	2169
<input type="checkbox"/>	CH4	Eq 2-14	0.108	2.700
<input type="checkbox"/>	N2O	Eq 2-14	0.324	96.552



CO2

Eq 2-2

2169

2169



CH4

Eq 2-14

0.108

2.700



N2O

Eq 2-14

0.324

96.552

Carbon Dioxide Emission Factor \*\*

2681

Units (for example, kg/kl, g/MJ) \*\*

kg/kl

Methane Emission Factor \*\*

0.133

Units (for example, kg/kl, g/MJ) \*\*

Nitrous Oxide Emission Factor \*\*

Units (for example, kg/kl, g/MJ) \*\*

Oxidation Factor (0.0~1.0) if used \*\*

Steam Produced (t) \*\*

Boiler Measured Temperature (°C) \*\*

Boiler Measured Pressure (kPa) \*\*

Ratio of Boiler's Design Rated Heat Input, Capacity to Design Rated Steam Output Capacity (kJ/t of steam) \*\*

## Main Power Plant

Unit Name \*

Description

Gross Electricity Generated On-Site(MWh) \*

## Fuels \*\*

Press Save after selecting your fuel to populate non-editable fields

Fuel \*

Fuel Classification

Fuel Type

Fuel Unit

Fuel Description

**Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\*****Energy Units(MJ) \*\***☐



Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	<input type="text" value="Eq 2-2"/>	<input type="text" value="58755"/>	<input type="text" value="58755"/>
<input type="checkbox"/>	CH4	<input type="text" value="Eq 2-14"/>	<input type="text" value="2.915"/>	<input type="text" value="72.875"/>
<input type="checkbox"/>	N2O	<input type="text" value="Eq 2-14"/>	<input type="text" value="8.766"/>	<input type="text" value="2612.268"/>

Carbon Dioxide Emission Factor \*\*

Units (for example, kg/kl, g/MJ) \*\*

Methane Emission Factor \*\*

Units (for example, kg/kl, g/MJ) \*\*

Nitrous Oxide Emission Factor \*\*

Units (for example, kg/kl, g/MJ) \*\*

Oxidation Factor (0.0~1.0) if used \*\*

Steam Produced (t) \*\*

Boiler Measured Temperature (°C) \*\*

Boiler Measured Pressure (kPa) \*\*

Ratio of Boiler's Design Rated Heat Input, Capacity

to Design Rated Steam Output Capacity (kJ/t of steam) \*\*

## Explo Camp

Unit Name \*

Description

Gross Electricity Generated On-Site(MWh) \*

## Fuels \*\*

Press Save after selecting your fuel to populate non-editable fields

Fuel \*

Fuel Classification

Fuel Type

Fuel Unit

Fuel Description

**Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\*****Energy Units(MJ) \*\***☐

Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	Eq 2-2	2973	2973
<input type="checkbox"/>	CH4	Eq 2-14	0.147	3.675
<input type="checkbox"/>	N2O	Eq 2-14	0.444	132.312

Carbon Dioxide Emission Factor \*\*

2681

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Methane Emission Factor \*\*

0.133

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Nitrous Oxide Emission Factor \*\*

0.4

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Oxidation Factor (0.0~1.0) if used \*\*

Steam Produced (t) \*\*

Boiler Measured Temperature (°C) \*\*

Boiler Measured Pressure (kPa) \*\*

Ratio of Boiler's Design Rated Heat Input, Capacity to Design Rated Steam Output Capacity (kJ/t of steam) \*\*

## Mobile generators

Unit Name \*

Mobile generators

Description

Gross Electricity Generated On-Site(MWh) \*

96

## Fuels \*\*

Press Save after selecting your fuel to populate non-editable fields

Fuel *	<input type="text" value="Diesel"/>
Fuel Classification	<input type="text" value="Non-Biomass"/>
Fuel Type	<input type="text" value="Liquid"/>
Fuel Unit	<input type="text" value="kilolitres"/>
Fuel Description	<input type="text"/>

**Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\***

**Energy Units(MJ) \*\***

<input type="text" value="31"/>	<input type="checkbox"/>
Source of Coal (Domestic - by province, Foreign-by Country) **	<input type="text"/>
Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) **	<input type="text" value="36533"/>
Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) **	<input type="text" value="704.7"/>
Measured Temperature (°C) **	<input type="text"/>
Measured Pressure (kPa) **	<input type="text"/>
Moisture Content (mass fraction) **	<input type="text"/>

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	<input type="text" value="Eq 2-2"/>	<input type="text" value="82"/>	<input type="text" value="82"/>
<input type="checkbox"/>	CH4	<input type="text" value="Eq 2-14"/>	<input type="text" value="0.004"/>	<input type="text" value="0.100"/>
<input type="checkbox"/>	N2O	<input type="text" value="Eq 2-14"/>	<input type="text" value="0.012"/>	<input type="text" value="3.576"/>
Carbon Dioxide Emission Factor **			<input type="text" value="2681"/>	

Units (for example, kg/kl, g/MJ) \*\*

Methane Emission Factor \*\*

Units (for example, kg/kl, g/MJ) \*\*

Nitrous Oxide Emission Factor \*\*

Units (for example, kg/kl, g/MJ) \*\*

Oxidation Factor (0.0~1.0) if used \*\*

Steam Produced (t) \*\*

Boiler Measured Temperature (°C) \*\*

Boiler Measured Pressure (kPa) \*\*

Ratio of Boiler's Design Rated Heat Input, Capacity  
to Design Rated Steam Output Capacity (kJ/t of  
steam) \*\*

## Steam Generation \*\*

---

☒ N/A

Empty

## Flaring \*\*

---

☒ N/A

Empty

## All Other Stationary Fuel Combustion \*\*

---

☐ N/A

---

Press Save after selecting your fuel to populate non-editable fields

Fuel \*

Fuel Classification

Fuel Type

Fuel Unit

Fuel Description

**Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\***

4944

**Energy Units(MJ) \*\***

☐

Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

36533

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

704.7

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	Eq 2-2	13256	13256
<input type="checkbox"/>	CH4	Eq 2-14	0.658	16.450
<input type="checkbox"/>	N2O	Eq 2-14	1.978	589.444

Carbon Dioxide Emission Factor \*\*

2681

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Methane Emission Factor \*\*

0.133

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Nitrous Oxide Emission Factor \*\*

0.4

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Oxidation Factor (0.0~1.0) if used \*\*

Steam Produced (t) \*\*

Boiler Measured Temperature (°C) \*\*

Boiler Measured Pressure (kPa) \*\*

Ratio of Boiler's Design Rated Heat Input, Capacity to Design Rated Steam Output Capacity (kJ/t of steam) \*\*

## Electricity Information

N/A	Description	Value **
<input type="checkbox"/>	Gross Electricity Generated On-site (MWh)	<input type="text" value="191526"/>
<input checked="" type="checkbox"/>	Additional electricity generated on-site	<input type="text"/>
<input checked="" type="checkbox"/>	Electricity Sold Off-site (MWh)	<input type="text"/>
<input checked="" type="checkbox"/>	Electricity Lost On-site (MWh)	<input type="text"/>
<input checked="" type="checkbox"/>	Electricity Purchased (MWh)	<input type="text"/>

## Steam/Heat Information

N/A	Description	Value **
<input checked="" type="checkbox"/>	Gross Steam and Heat Generated On-Site (MJ)	<input type="text"/>
<input checked="" type="checkbox"/>	Gross Steam and Heat used to Generate Electricity On-Site (MJ)	<input type="text"/>
<input checked="" type="checkbox"/>	Steam and Heat Sold Off-site (MJ)	<input type="text"/>
<input checked="" type="checkbox"/>	Steam and Heat Purchased (MJ)	<input type="text"/>
<input checked="" type="checkbox"/>	Steam or Heat Lost On-Site (MJ)	<input type="text"/>



## Facility/Source-specific Documentation \*

Where applicable, please attach supplier or fuel sampling, analysis and consumption measurement documentation related to fuel quantity, carbon content, high heat value and/or emission factor used.

**File Name**

**Date**

Fuel HHV.zip

2020-07-30 8:34:21 PM

2017 - GHGRP.pdf

2020-07-30 8:34:41 PM

## On-Site Transportation

## On-Site Transportation

## Emissions by Fuel Type \*\*

☐ N/A

Press Save after selecting your fuel to populate non-editable fields

Fuel \*

Diesel

Fuel Classification

Non-Biomass

Fuel Type

Liquid

Fuel Unit

kilolitres

Fuel Description

**Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\***

**Energy Units(MJ) \*\***

8767

☐

Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

36533

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

704.7

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	<div>Eq 2-2</div>	<div>23505</div>	<div>23505</div>
<input type="checkbox"/>	CH4	<div>Eq 2-14</div>	<div>0.64</div>	<div>16.00</div>
<input type="checkbox"/>	N2O	<div>Eq 2-14</div>	<div>2.016</div>	<div>600.768</div>

Carbon Dioxide Emission Factor \*\*

2681

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Methane Emission Factor \*\*

0.073

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Nitrous Oxide Emission Factor \*\*

0.23

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Oxidation Factor (0.0~1.0) if used \*\*

Press Save after selecting your fuel to populate non-editable fields

Fuel \*

Motor Gasoline

Fuel Classification

Non-Biomass

Fuel Type

Liquid

Fuel Unit

kilolitres

Fuel Description

Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\*

Energy Units(MJ) \*\*

31.8



Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	Eq 2-2	73	73
<input type="checkbox"/>	CH4	Eq 2-14	0.162	4.050
<input type="checkbox"/>	N2O	Eq 2-14	0.002	0.596

Carbon Dioxide Emission Factor \*\*

2307

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Methane Emission Factor \*\*

5.08

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Nitrous Oxide Emission Factor \*\*

0.064

Units (for example, kg/kl, g/MJ) \*\*

kg/kL

Oxidation Factor (0.0~1.0) if used \*\*

Press Save after selecting your fuel to populate non-editable fields

Fuel \*

Aviation Turbo Fuel

Fuel Classification

Non-Biomass

Fuel Type

Liquid

Fuel Unit

kilolitres

Fuel Description

Amount of Fuel Consumed (Default fuel unit or MJ (if selected)) \*\*

52

Energy Units(MJ) \*\*



Source of Coal (Domestic - by province, Foreign-by Country) \*\*

Measured and Weighted Higher Heating Value (MJ/unit of fuel consumed) \*\*

Measured and Weighted Carbon Content (kg of C/unit of fuel consumed) \*\*

Measured Temperature (°C) \*\*

Measured Pressure (kPa) \*\*

Moisture Content (mass fraction) \*\*

## Emissions

N/A **	Gas	Methodology **	Emissions (t) **	Emissions (t CO2e)
<input type="checkbox"/>	CO2	Eq 2-2	135	135
<input type="checkbox"/>	CH4	Eq 2-14	0	0
<input type="checkbox"/>	N2O	Eq 2-14	0.004	1.192

Carbon Dioxide Emission Factor \*\*

2579

Units (for example, kg/kl, g/MJ) \*\*

kg/kl

Methane Emission Factor \*\*

0

Units (for example, kg/kl, g/MJ) \*\*

kg/kl

Nitrous Oxide Emission Factor \*\*

0.079

Units (for example, kg/kl, g/MJ) \*\*

kg/kl

Oxidation Factor (0.0~1.0) if used \*\*

## Facility/Source-specific Documentation

Where applicable, please attach supplier or fuel sampling, analysis and consumption measurement documentation related to fuel quantity, carbon content, high heat value and/or emission factor used.

## Documents \*\*

☐ N/A

File Name

Date

2017 - GHGRP.pdf

2020-07-30 8:38:39 PM

## Section A

Report the direct greenhouse gas emissions for this facility for the period identified above.

Click Validate to check for errors and Save/Continue to save the information. If there are any errors, they will be flagged. If there are no errors, the page will be Complete.

N/A = Not Applicable MDM = Monitoring or Direct Measurement MB = Mass Balance EF = Emission Factors EE = Engineering Estimates

## Stationary Fuel Combustion Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions( t CO2e)
<input type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	77235	77235
<input type="checkbox"/>	Methane (CH4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.832	95.800
<input type="checkbox"/>	Nitrous Oxide (N2O)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11.524	3434.152
Sub-total						80764.952	

## Industrial Process Emissions

N/A	Substance	MDM **	MB **	EF **	EE **	Emissions	Emissions(
-----	-----------	--------	-------	-------	-------	-----------	------------

	Name					(t) **	t CO2e)
<input type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	358	358
<input type="checkbox"/>	Methane (CH4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0
<input type="checkbox"/>	Nitrous Oxide (N2O)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	0
Sub-total						358	

### Venting Emissions (including vented Formation CO2)

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions( t CO2e)
<input checked="" type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Methane (CH4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Nitrous Oxide (N2O)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sub-total							

### Flaring Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions( t CO2e)
<input checked="" type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Methane (CH4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Nitrous Oxide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

(N2O)

Sub-total

## Leakage Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions(t CO2e)
<input checked="" type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Methane (CH4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Nitrous Oxide (N2O)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Sub-total

## On-site Transportation Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions(t CO2e)
<input type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	23713	23713
<input type="checkbox"/>	Methane (CH4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.802	20.050
<input type="checkbox"/>	Nitrous Oxide (N2O)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.022	602.556

Sub-total

24335.606

## Waste Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions(t CO2e)
<input type="checkbox"/>	Carbon Dioxide (CO2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	994	994



<input checked="" type="checkbox"/>	Methane (CH <sub>4</sub> )	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.035	0.875
<input type="checkbox"/>	Nitrous Oxide (N <sub>2</sub> O)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5.45	1624.10
Sub-total						2618.975	

## Wastewater Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions (t CO <sub>2</sub> e)
<input checked="" type="checkbox"/>	Carbon Dioxide (CO <sub>2</sub> )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Methane (CH <sub>4</sub> )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	Nitrous Oxide (N <sub>2</sub> O)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sub-total							

## Section B

Report the direct greenhouse gas emissions for this facility for the period identified above. Click Validate to check for errors and Save/Continue to save the information. If there are any errors, they will be flagged. If there are no errors, the page will be Complete.

Note: CO<sub>2</sub> emissions from biomass combustion are not included in the total reported to Environment and Climate Change Canada.

N/A = Not Applicable MDM = Monitoring or Direct Measurement MB = Mass Balance EF = Emission Factors EE = Engineering Estimates

## Biomass Combustion Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions (t CO <sub>2</sub> e)
<input checked="" type="checkbox"/>	Carbon Dioxide (CO <sub>2</sub> )	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

## Section C

Report the direct emissions of HFCs, PFCs and SF6 from industrial processes and industrial product use only for this facility for the period identified above.

Click Validate to check for errors and Save/Continue to save the information. If there are any errors, they will be flagged. If there are no errors, the page will be Complete.

N/A = Not Applicable MDM = Monitoring or Direct Measurement MB = Mass Balance EF = Emission Factors EE = Engineering Estimates

## Hydrofluorocarbon (HFC) Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions(t CO2e)
<input checked="" type="checkbox"/>	HFC-23 (CHF3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-32 (CH2F2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-41 (CH3F)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-43-10mee (C5H2F10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-125 (C2HF5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-134 (C2H2F4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-134a (C2H2F4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-143 (C2H3F3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-143a (C2H3F3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	HFC-152a (C2H4F2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

<input checked="" type="checkbox"/>	HFC-227ea (C3HF7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
-------------------------------------	----------------------	--------------------------	--------------------------	--------------------------	--------------------------	----------------------	----------------------

<input checked="" type="checkbox"/>	HFC-236fa (C3H2F6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
-------------------------------------	-----------------------	--------------------------	--------------------------	--------------------------	--------------------------	----------------------	----------------------

<input checked="" type="checkbox"/>	HFC-245ca (C3H3F5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
-------------------------------------	-----------------------	--------------------------	--------------------------	--------------------------	--------------------------	----------------------	----------------------

Total

## Perfluorocarbon (PFC) Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions (t CO2e)
<input checked="" type="checkbox"/>	Perfluoromethane (CF4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	Perfluoroethane (C2F6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	Perfluoropropane (C3F8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	Perfluorobutane (C4F10)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	Perfluorocyclobutane (c-C4F8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	Perfluoropentane (C5F12)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	Perfluorohexane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

(C6F14)

Total

Sulphur Hexafluoride (SF6) Emissions

N/A	Substance Name	MDM **	MB **	EF **	EE **	Emissions (t) **	Emissions( t CO2e)
<input checked="" type="checkbox"/>	Sulphur hexafluoride (SF6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

Summary

No input required - GHG totals are calculated automatically.

Total GHG Emissions for the Facility

	Emissions (t)	Emissions (t CO2e)
Carbon Dioxide (CO2)	<input type="text" value="102300"/>	<input type="text" value="102300"/>
Methane (CH4)	<input type="text" value="4.669"/>	<input type="text" value="116.725"/>
Nitrous Oxide (N2O)	<input type="text" value="18.996"/>	<input type="text" value="5660.808"/>
Hydrofluorocarbons (HFCs)		<input type="text"/>
Perfluorocarbons (PFCs)		<input type="text"/>
Sulphur hexafluoride (SF6)	<input type="text"/>	<input type="text"/>
Facility Total reported to Environment and Climate Change Canada:		<input type="text" value="108077.533"/>
Carbon dioxide (CO2) from biomass combustion:		<input type="text"/>

Comments

This section is optional.

Enter any comments you wish to include related to the information you have reported.

General Comments will not be published.

## General Comments

---

Comments: (max 4000 characters)

## Reasons for Changes in GHG Emissions from Previous Year

---

Select the applicable reason or reasons

Additional Information: \*\*

File Name

Date

## Confidentiality Request

---

### Environment and Climate Change Canada Confidentiality Request

---

The Canada Gazette Notice indicated that the Minister of the Environment intends to publish GHG emission totals by gas, by facility. Under the Canadian Environmental Protection Act, 1999 (CEPA 1999), you can request that part or all of the information that you have provided in this report be treated as confidential. You must provide appropriate justification to support this request (see Help for more information).

Are you requesting confidentiality of this report under CEPA 1999? \*

If yes, you must upload a document containing your written request to Environment and Climate Change Canada with your report submission that includes:

- Identification of the specific information that you wish to keep confidential
- Appropriate justification and supporting documentation

An Environment and Climate Change Canada representative will be in contact with you regarding your request.

Click on the icon located to the right of your screen to upload your Environment and Climate Change Canada Confidentiality Request.

**File Name****Date**

## Report Submission and Electronic Certification

Please note that the Authorized Signing Officer retains ultimate responsibility for all data entered into the system, including the certification and the submission of the report.

## Statement of Certification

**Company Name****Facility Name****Facility Address****Reporting Period****Facility Total Emissions reported to Environment and Climate Change Canada (t CO<sub>2</sub>e)****Report ID****Report Type****GHGRP ID**

## Authorized Signing Officer (Certifying Official)

**Authorized Signing Officer (Certifying Official)**

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility are accurate, based on reasonable estimates using available data. The data for the facility that I represent are hereby submitted using the Environment and

Climate Change Canada Single Window system.

I have the authority to bind the reporting company.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

File Name **	Date **
<div></div>	<div></div>

## Submit Report

Submitted By

Sara Savoie

Date

2020-07-31 1:22:29 PM