

Alt-FEMP Executive Summary

Company	Program start	Program end	# of sites
Certus Oil and Gas Inc.	July 4, 2023	December 31, 2024	170

Once an alternative fugitive emissions management program is approved, AER staff draft this executive summary. This is a summary only, published to help interested stakeholders understand what has been approved. These summaries are found on our website, www.aer.ca > Protecting What Matters > Holding Industry Accountable > Industry Performance > Methane Performance > [Alternative Fugitive Emission Management Program Approvals](#). For additional information on these approvals, contact methane.reduction@aer.ca.

Summary

Certus Oil and Gas Inc. (Certus) is a Western Canadian Sedimentary Basin upstream gas producer that owns and operates 238 facilities in Alberta, located on 201 legal subdivisions (LSDs). As of 2020, Certus has implemented regular leak detection and repair (LDAR) programs in accordance with provincial regulations. Certus will implement a pilot alternative fugitive emissions management program (alt-FEMP) at 204 facilities, and 34 facilities will be covered in a control region. The alt-FEMP will operate until December 2024.

A representative control region encompassing 34 Certus facilities (14% of total facilities) was omitted from the scope of the alt-FEMP. In the control region, OGI surveys in accordance with *Directive 060* will occur, providing data that will be compared with the performance data from the selected alternative program.

The selected alternative program for this proposal involves deploying aerial-based gas mapping LiDAR (a-LiDAR) screenings in Q2 2023 as well as a truck-based survey in Q3 2023, Q2 2024, and Q3 2024. Fugitive emissions reductions will occur at a top fraction of sites ranked by their emission levels. The selected alternative program is estimated to achieve similar or greater emissions reductions to the *Directive 060* default approach. This will also decrease safety risks by limiting the number of subcontractor hours in the field, which is a priority for Certus.

The alt-FEMP methodology is as follows:

Step 1	Screen	Conduct site-level screening. The selected alternative program will deploy four screening campaigns throughout the program: <ol style="list-style-type: none"> 1) a-LiDAR screening, Q2 2023 2) Truck-based screening, Q3 2023 3) Truck-based screening, Q2 2024 4) Truck-based screening, Q3 2024
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		The screening technologies will capture both vented and fugitive emissions. Screening campaigns will occur more than three months apart, and a-LiDAR will be deployed in snow-free months.
Step 2	Rank	<p>Following each a-LiDAR and truck-based screening campaign, emissions will be attributed to an LSD and the LSDs will be ranked highest to lowest by their total emissions. The follow-up threshold percentage determines the top number of LSDs to be visited for emissions localization and repair. The selected program has the following follow-up requirements after each designated screening event:</p> <ul style="list-style-type: none"> • Screening campaign 1 (Q2, 2023): 20% follow-up • Screening campaign 2 (Q3, 2023): 20% follow-up • Screening campaign 3 (Q2, 2024): 20% follow-up • Screening campaign 4 (Q3, 2024): 20% follow-up
Step 3	Follow-Up	Follow-up emissions localization will occur on the ground at the LSDs outlined in Step 2. Here, fugitive emissions will be differentiated from vented emissions. Fugitive emissions will be tagged and recorded for repair, while vented emissions will be recorded for potential future reduction programs.
Step 4	Repair	At the follow-up sites, all fugitive repairs will be made according to <i>Directive 060</i> timelines once a fugitive leak has been localized.