



Crestone Peak Resources Operating LLC

Site Specific Air Quality Plan Addendum

For Chico 4-65 26-26 North

(Chico North Facility)

Address: 29860 E Jewell Ave

Application Number: DA-2395-00

Case Number: 2024-6041-00

Contents

Contents

1.	Purpose.....	3
2.	Scope	3
3.	Objectives.....	3
4.	Monitoring Strategy	3
4.1.	Monitoring Timetable.....	3
4.2.	Pre-activity information	3
4.3.	Equipment Siting and Site-Specific Monitoring.....	4
5.	Location Data plan.....	6
6.	Minimization of Emissions.....	6
7.	References.....	7



please include BMPs
as mentioned in the
Operator Agreement

1. Purpose

- The purpose of this plan is to provide the necessary information for meeting Air Quality requirements as required by the Oil and Gas Operator Agreement between Crestone Peak Resources Operating LLC (CPRO) and the City of Aurora, a municipal corporation.
- This plan addendum is intended to address site specific items. Each location presents unique challenges related to topography, surrounding land uses, proximity to other sources of emissions, and conditions driven by the Operator Agreement.

2. Scope

- The Fieldwide Air Quality Plan Version 2022.02.23 (FW AQP) addresses all air quality requirements subject to the Aurora Operator Agreement that are common to all locations. This site-specific plan addendum is intended to address only the aspects that are unique to the Chico North location and will not repeat general terms outlined in the FW AQP.

3. Objectives

The following objectives are applied to this site-specific addendum.

- Identification of background sources of emissions and potential causes of interference.
- Location-specific considerations such as topography, unique site designs and multi-well pads in different stages of production.
- Monitoring strategies that will be employed and monitor locations.

4. Monitoring Strategy

4.1. Monitoring Timetable

CPRO will utilize the Canary S/Canary X monitoring system as provided by Project Canary. The FW AQP outlines the monitoring strategy employed fieldwide.

- Signed contract with Project Canary – December 21, 2019
- Establish alert levels/thresholds and data feed to the City – June 25, 2020
- Monitors installed on a voluntary basis at the Chico 4-65 26-25 pad – January 20, 2021
- Identify new monitor locations with Canary – September 2024
- Begin pre-construction baseline air monitoring – Real time monitoring at the Chico 4-65 26-25 pad began on January 20, 2021. Estimated pre-construction baseline summa canister sample date: June 25, 2025.

** Any timelines listed above may be subject to change based on City requirements and O&G location specific issues which may be outside of CPRO's control.*

4.2. Pre-activity information

- List of possible sources of outside interference:
 - CPRO Battery Sunset/Grimm Motocross: 2,500 feet north
 - CPRO Battery Cottonwood Creek 4-65 27-28: 2,550 feet southwest
 - Agriculture field: Surrounds the facility (farm equipment operations)

There are no buildings or structures near the location that will create any monitoring obstructions.

Location Specific Considerations

- Topography: Flat with minimal slopes
- Identification of site design / structures of concern:
 - Sound walls will be used during pre-production operations. The sound walls will be installed prior to moving in the drilling rig and remain on location through completions operations. The sound walls will be removed after the first date of production through the permanent equipment.
- All monitoring locations will include the ability to pull summa canisters.
- Section 6.3.5 Continuous Monitoring Plan of the FWAQP provides a description for evaluation criteria. The three monitors and canister samplers will be placed a triangular pattern around the location with a focus on placing monitors downwind of activities that may be the source of an emissions event.
- Describe site activity, stages, and timeline
 - Initial Pad Construction/Enlargement: Estimated start May 24, 2025
 - Drilling Phase: Estimated Start July 8, 2025
 - Completions: Estimated start January 1, 2026
 - Facility Construction: N/A, Existing Facility
 - Projected First date of production: February 7, 2026

** Any timelines listed above may be subject to change based on City requirements and O&G location specific issues which may be outside of CPRO's control.*

4.3. Equipment Siting and Site-Specific Monitoring

- The production facility is existing, and air monitoring is ongoing on a voluntary basis. Pre-construction monitoring will be performed using the monitor that is in the upwind position based upon prevailing winds. The purpose is to develop baseline air pollutant levels and there will be no pad construction activity occurring on the location.
- During all remaining phases below **three** monitors and canister samplers will be placed a triangular pattern around the location with a focus on placing monitors downwind of activities that may be the source of an emissions event.
- During all pre-production activities, the Canary sensors will remain inside the sound walls unless the sound wall prevents adequate sunlight to the sensor's solar panel. In that case, the sensor will be placed just outside the sound wall.
- Anticipated timing for re-locations
 - Drilling → locations will be re-evaluated after sound walls constructed and drilling equipment is set on location
 - Completions → locations will be re-evaluated after completions equipment set on location.
 - Production → monitors will be re-evaluated after permanent equipment constructed (see section 4.5 for more information)
- The City of Aurora will be consulted with any pending changes to monitoring locations as warranted by site specific meteorological data. The City of Aurora during this consultation can approve the monitor placement changes or provide alternatives to be evaluated. Consultation will be limited to 5 business days and if no comments is received from the City of Aurora the placement changes will be considered approved
- Air monitor and summa canister inlet height – approximately 4 to 5 ft above ground level.
- Rationale for Placement of Air Monitors: The initial rationale for monitoring placement is to use prevailing wind patterns and site equipment layouts to capture potential emissions sources using downwind monitors and a single upwind monitor to determine if off location sources are impacting the site.
 - Baseline monitoring: Prior to commencing construction, three Canary sensors equipped with canister samplers will be placed on temporary stands at the perimeter of the site in accordance with Figure 1.
- Estimated location of sensors during drilling and completion phases:

- Receptor 1, GPS 39.67652/ -104.64035
- Receptor 2, GPS 39.67732/ -104.63830
- Receptor 3, GPS 39.67535 / -104.63991
- Estimated location of sensors during production phase:
 - Receptor 1, GPS 39.67652/ -104.64035
 - Receptor 2, GPS 39.67693/ -104.63872
 - Receptor 3, GPS 39.67535/ -104.63991
- After the permanent facility has been constructed, permanent posts are installed around the perimeter of the site in accordance with Figure 2. These posts will be utilized if it is determined that any of three Canary monitors will need to be moved based upon meteorological data and consultation with the City of Aurora.
- At the completion of 30 days of monitoring at the permanent facility, wind rose information will be analyzed to determine if units need to be moved to the most effective posts according to the prevailing wind direction.
- CPRO will maintain a log of the date, reasoning, and record of consultation with Aurora for changes to sensor movement decisions.

Figure 1. Sensor Placement Map, Drilling and Completions Phases

Chico N Pad (expansion) Pre-Production and Early Production Phases

- 3 Canary X and 3 Canary S units proposed
- Locations approximate (pad edge, at least 50' from any ignition sources)
- Predominant wind direction in all speeds is from SSE to E

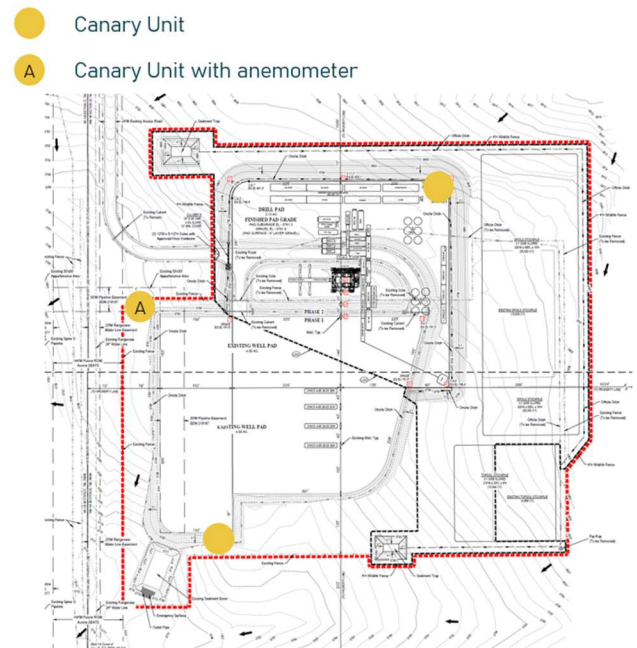
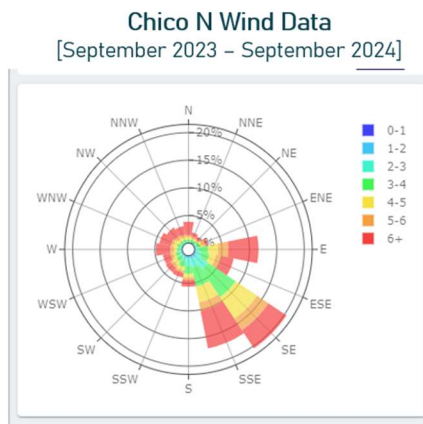
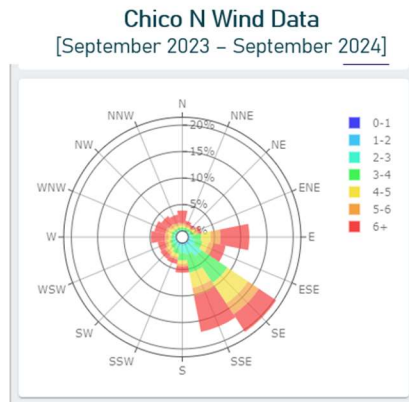


Figure 2. Sensor Placement Map, Production Phase

Chico N Pad (expansion) Production Phase

- 3 Canary X and 3 Canary S units proposed
- Locations approximate (pad edge, at least 50' from any ignition sources)
- Predominant wind direction in all speeds is from SSE to E



- Canary Unit
- A Canary Unit with anemometer

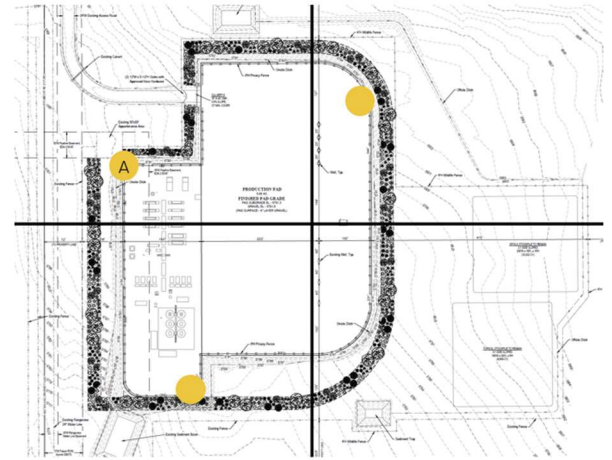


Figure 3. Air Monitoring Equipment Diagram



5. Location Data plan

- Frequency of collection
 - Canary sensors will operate continuously upon installation.
 - Continuous monitoring will follow the procedures outlined in the FW AQP.
 - CPRO personnel will follow the CEM Data Evaluation and Response Procedure provided in the FW AQP
- Report out matrix
 - The regular report will follow the submittal frequency defined in the FW AQP. It will also include a log of sensor locations in the event that a sensor needs relocated as defined in section 4.4.

6. Minimization of Emissions

- Equipment:
 - Electric drilling rig will be utilized, however in the event power is not available then diesel rig will be used.
 - Tier 4 engines will be utilized during completions, however if they are unavailable then Tier 2 engines will be used.
 - The permanent facility will utilize instrument air for all pneumatic devices.
 - Emissions from storage tanks and truck loadout operations will be controlled by an enclosed combustor.
 - All equipment and emissions will be in compliance with CDPHE regulations and air permit compliance.

7. References

- Fieldwide Air Quality Plan Version 2022.02.23