



**Niobrara**

**Location Specific Air Quality Plan**

**Addendum**

**For The Lone Tree North 4-65 15-16 1AH, 1BH, 1CH, 1DH - 2AH, 2BH, 2CH, 2DH, 3AH**

## Contents

1. Purpose.....	3
2. Scope .....	3
3. Objectives.....	3
4. Monitoring Strategy .....	3
4.1. Pre-activity information.....	3
4.2. Location Specific Considerations .....	4
4.3. Equipment citing.....	4
5. Location Data plan.....	4
6. References.....	4

## 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 ConocoPhillips Company (COPC), a Delaware corporation, and its subsidiaries, and Burlington Resources Oil & Gas Company LP, a Delaware limited partnership, and the City of Aurora, Colorado, 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 Field-wide Air Quality Management Plan addresses requirements in broad terms. Many aspects of the air quality management strategy are common to all locations. This site-specific plan addendum is intended to address only the aspects that are unique to a certain location and will not repeat general terms outlined in the field-wide plan. Use of Tier 2 and Tier 4 Fracturing pumps will be identified in the site specific plans per the Operator Agreement.
- In the future, as the plans are developed, health-based criteria for exposure limits (as found in NAAQS and ATSDR) will be referenced and incorporated into targeted alert levels and reports.

## 3. Objectives

The following objectives are applied to the 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.
- Describe location specific monitor locations including number and type of equipment.

## 4. Monitoring Strategy

- Secure vendor contract – September 3, 2019
- Identify monitor locations in field with Vendor – June 1, 2020
- Pad Build ETA July 19, 2020.
- Begin pre-construction baseline air monitoring – Upon receipt of COGCC Form 2 and 2A.
- Establish alert levels/thresholds and data feed to the City – ASAP, TBD with the City staff

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

#### **4.1. Pre-activity information**

- List of possible sources of outside interference: to be determined during the monitor location identification phase
- List of receptors: to be determined during the monitor location identification phase

#### **4.2. Location Specific Considerations**

- Identify area topography
- Identification of site design / structures of concern (fences, sound walls, etc.)
- Describe site activity and stages
- Timeline for activities
- At least 5 days prior to oil & gas operations, commence ambient baseline monitoring

#### **4.3. Equipment siting**

- Site plan diagram for equipment locations, Proposed Monitoring Site Locations attached.
- Anticipated timing for re-locations
- Drilling, Completions, Production location modifications

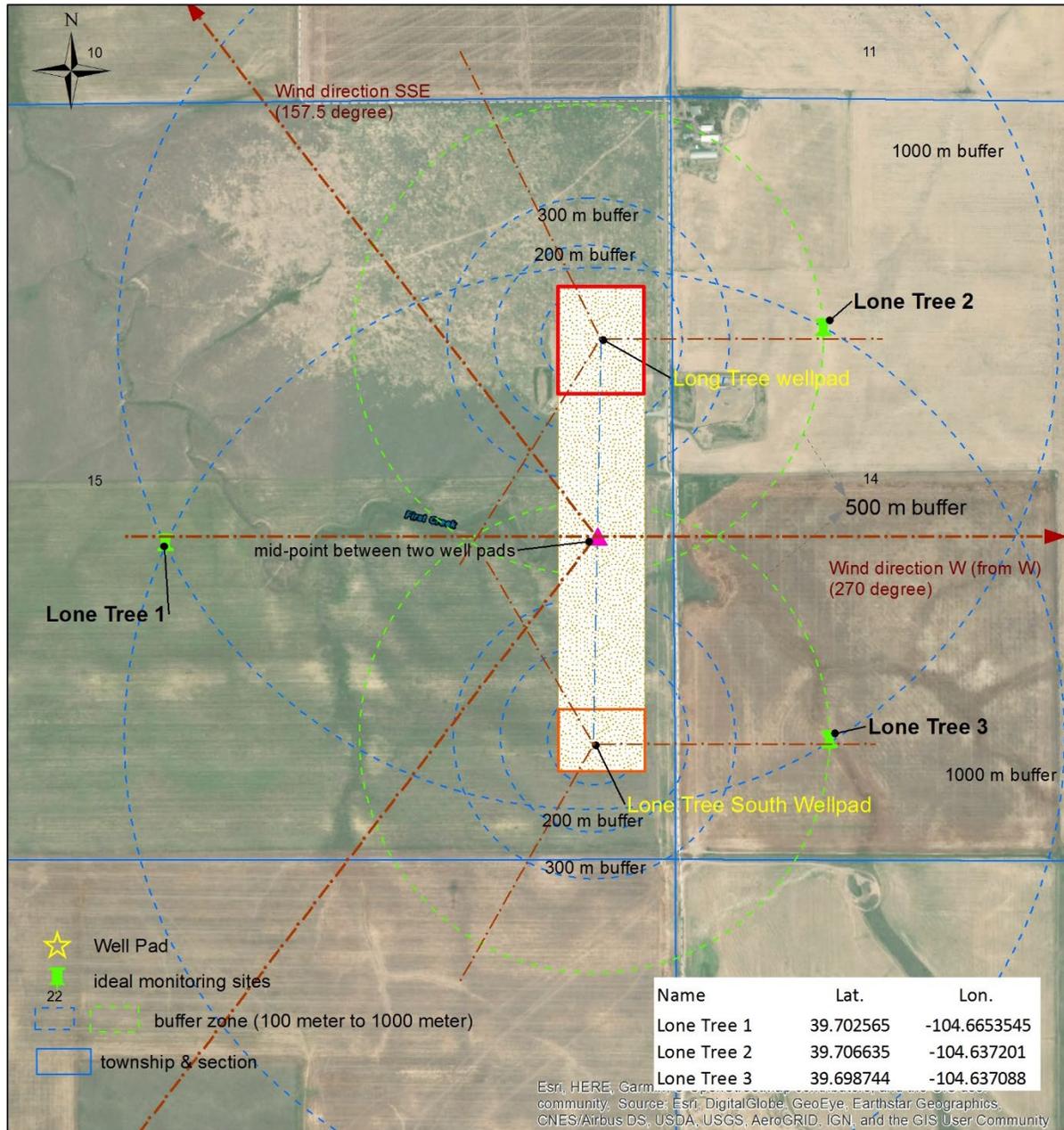
#### **5. Location Data plan**

- Frequency of collection
- Report out matrix

#### **6. References**

- Oil and Gas Operator Agreement
  - Best Management Practices
-

# Proposed Monitoring Site Locations: Lone Tree Pad Sites



**Assumptions:**

Wind speed = 7 mph; prevailing wind directions are SSE and W.

**Criteria:**

1. Proximity from a monitoring station to the wellpad (center) is determined by dispersion model and modified by some factors.  
(0.2 mile to 0.6 mile, for this case)

2. Angles between each stations are the same.

