

Town of Erie – Air Quality Monitoring Update

Erie Town Council

May 20, 2025

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Agenda

- 1. General Overview of the Air Quality Monitoring Network
- 2. Presentation from BoulderAIR
- 3. Presentation from Ajax Analytics
- 4. Budget Impacts
- 5. Questions and Discussion



Air Quality Monitoring

- BoulderAIR
- Ajax/CSU







BoulderAIR



Equipment in Service

- One real-time monitoring station located at ECC

Part of Front Range
Monitoring network – Five (5)
total stations



Data Collected

Volatile Organic Compounds
(VOCs), Particulate Matter
(PM), Methane (CH4), Ozone
(O3) and meteorological data



Data Implementation

- Data is available to public and for scientific uses

- Data is utilized by other local governments



Ajax/CSU



Equipment in Service

- Nine real-time monitoring stations
- One "mobile" station to respond to events (ex. Irregular operations)



Data Collected

- Total Volatile Organic
 Compounds (TVOCs),
 Particulate Matter (PM),
 Nitrogen Oxides (NOx) and
 meteorological data
- Automatically triggered summa canisters
- Continuous 7-day duration,whole-air canister samples(Collected at four sites)



Data Implementation

- Quarterly reports posted to public facing website
- All data made available through Ajax dashboard



Air Quality Monitoring Costs and Budget Impacts

Current 2025 Budget has allocated a total of \$498,587 for the Air Quality Monitoring Program Existing contracts for Jan-June monitoring totaled \$405,251 \$113,620 for BoulderAIR Station at ECC (~1% increase from 2024) \$291,631 for 10 Ajax Stations and associated work (~17% increase from 2024) \$93,336 remaining for the second half of the year without additional appropriation



BoulderAIR

Costs of the existing program (real-time monitoring station at ECC Ballfields)

- \$224,734 in 2024 (12 months of monitoring)
- \$113,620 first half of 2025 (6 months)

Ajax/CSU

Costs of the existing program (10 triggered suma canister stations with 4 collecting weekly samples)

- \$495,854 in 2024 (12 months of monitoring)
- \$291,631 first half of 2025 (6 months)

Total

Costs of the existing program

- \$XXX in 2024 (12 months of monitoring)
- \$XXXX first half of 2025 (6 months)



Options for Council's Consideration Option 1 – Continue the existing program - unchanged

- 2025 Budget impact of \$405,251 (\$405K needing to be appropriated in Second Supplemental)
- 2026 Budget impact of ~\$835,000
- Provides near real-time air quality data to residents
- Continued focus on impacts from multiple specific sources & individual oil and gas locations
- Would provide independent monitoring of the Draco Pad in pre-production
- Great flexibility to relocate Ajax stations when known maintenance activities are planned
- Complete continuity with existing data
- Very large fiscal impact



Options for Council's Consideration Option 2 – Eliminate existing BoulderAIR station and continue Ajax Suma Canister network unchanged

- 10 stations placed across the Town of Erie
- 2025 Budget impact of \$294,888 (\$201K needing to be appropriated in Second Supplemental)
- 2026 Budget impact of ~\$575,533
- Would provide independent monitoring of the Draco Pad in pre-production
- Broadly focused monitoring of existing oil and gas locations, landfill, other emission sources
- Able to relocate stations when known maintenance activities are planned
- Would not provide near real-time air quality data to residents
- Some continuity with existing data
- Large fiscal impact



Options for Council's Consideration Option 3 – Eliminate existing BoulderAIR station and continue a reduced Ajax Suma Canister network

- 5 stations placed strategically near known emission sources
- 2025 Budget impact of \$198,168 (\$105K needing to be appropriated in Second Supplemental)
- 2026 Budget impact of \$396,336
- Would provide independent monitoring of the Draco Pad in pre-production
- Provides focused monitoring of specific sources or individual oil and gas locations
- Would not provide near real-time air quality data to residents
- Limited ability to relocate stations when known maintenance activities are planned
- Some continuity with existing data
- Moderate fiscal impact



Options for Council's Consideration

Option 4 – Eliminate all Suma Canister Stations and continue the existing BoulderAIR station

- 2025 Budget impact of \$113,620 (\$20K needing to be appropriated in Second Supplemental)
- 2026 Budget impact of ~\$226,958
- Provides near real-time air quality data to residents
- Does not focus on impacts from specific sources or individual oil and gas locations
- Would not provide independent monitoring of the Draco Pad in pre-production
- No ability to relocate stations when known maintenance activities are planned
- Some continuity with existing data
- Low fiscal impact



Options for Council's Consideration Option 5 – Eliminate all existing stations and add BoulderAIR operated Suma Canister network

- 5 stations placed strategically near known emission sources
- 2025 Budget impact of \$102,438 (\$10K needing to be appropriated in Second Supplemental)
- 2026 Budget impact of \$204,875
- Would provide independent monitoring of the Draco Pad in pre-production
- Provides focused monitoring of specific sources or individual oil and gas locations
- Would not provide near real-time air quality data to residents
- Limited ability to relocate stations when known maintenance activities are planned
- Likely learning curve and trial-and-error, first effort by BouderAIR with type of network
- Loss of continuity with existing data
- Lowest fiscal impact



Questions & Discussion