



May 5, 2017

Mr. Fred Diehl  
Assistant to the Town Administrator  
Town of Erie  
645 Holbrook Street  
PO Box 750  
Erie, CO 80516

Subject: Proposal to Assist Town of Erie with Air Monitoring During Well Completions

Dear Mr. Diehl:

Pinyon has included in this proposal air monitoring options specifically requested by the Town at the Waste Connections and Pratt locations. Air quality monitoring is proposed to occur at these two sites during the well completion phase. Based on our discussions, we have put together a menu of services, and associated costs that the City can choose from on as-needed basis, as outlined below,

### **Task I: Ambient Air Sampling**

Pinyon will conduct daily air sampling during the well completion phase at both sites. Air samples will be collected 500 feet from the well site. Meteorological data collected from the Erie Municipal Airport will be obtained and analyzed by Pinyon to determine the prevailing wind direction that will assist in determining the exact sampling location. If possible the air samples will be collected such that the monitoring locations are downwind of the well sites. Pinyon will mobilize to the site and place a Summa Canister at that location. The canister will be equipped with a 24-hour regulator. Pinyon will re-mobilize to the well site to retrieve the canister after 24 hours. Air samples will be collected daily for a period of 14 days at each well site.

The sample will then be analyzed in accordance to Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)," and EPA reference Method 18, "Measurement of Gaseous Organic Compound Emissions by Gas Chromatography." Pinyon will compare the results against short-term and long-term health screening levels as identified in the below sources and will prepare two final reports detailing the results for each site.

- Environmental Protection Administration Integrated Risk Information System (IRIS)
- ATSDR MRL (US Agency for Toxic Substances and Disease Registry Minimal Risk Level)
- PPRTV (EPA Provisional Peer Reviewed Toxicity Values)
- California Office of Environmental Health Hazard Assessment Relative Exposure Level (REL)
- TCEQ AMCV (Texas Commission on Environmental Quality Air Monitoring Comparison Value)

**Pinyon estimates the cost for this task to be \$25,700 for both well sites.**

Assumptions:

1. Town of Erie staff will work with Pinyon to determine the exact location of the two monitoring sites and will secure all necessary access agreements.
2. Air sample results will be reported by the lab to Pinyon one business day after receipt of the Summa Canister. If the Town of Erie does not require expedited reporting, laboratory analysis costs per sample will decrease.
3. Well completions will last for a period of 14 days at each site. If well completions extend beyond this time frame air sampling can continue, but additional costs will be incurred as described in Task 1b.

*Task 1b: Additional Ambient Air Sampling*

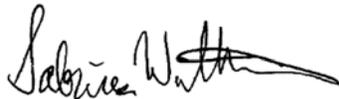
If the Town of Erie wishes to collect additional air samples at each well site beyond the 14-day sampling period, Pinyon will mobilize to the desired site and place a Summa Canister at that location. The Summa Canister will be configured as outlined in Task 1 and will be analyzed in accordance to Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)," and EPA reference Method 18, "Measurement of Gaseous Organic Compound Emissions by Gas Chromatography." Pinyon will compare the results against short-term and long-term health screening levels as identified in the above sources and will prepare a brief memo detailing the results.

**Pinyon estimates the cost for this task to be \$1,400 per sample.**

If you have any questions, or require additional information, please do not hesitate to call. We would be happy to revise the proposed services, as necessary to meet the Town or Erie's needs, or to meet and discuss our outlined approach. Thank you for considering Pinyon for your environmental consulting needs.

Sincerely,

**PINYON ENVIRONMENTAL, INC.,**



Sabrina Williams

Air Quality and Noise Specialist