SB23-186

Consultation with Huerfano County ECMC and WQCD

March 12, 2024



COLORADO Energy & Carbon Management Commission

Department of Natural Resources

SB23-186 Directives

Directs ECMC and WQCD to conduct a study of two main issues

1. Systematically and Proactively identify methane seepage and measure seepage rates

2. Evaluate the quality of water produced from Coalbed Methane operations in the Raton Basin



SB23-186 Directives

Consultation and Collaboration: State Agencies: Colorado Energy Office Division of Water Resources Division of Mining, Reclamation, and Safety Colorado Parks and Wildlife

> Local Governments: Las Animas County Huerfano County



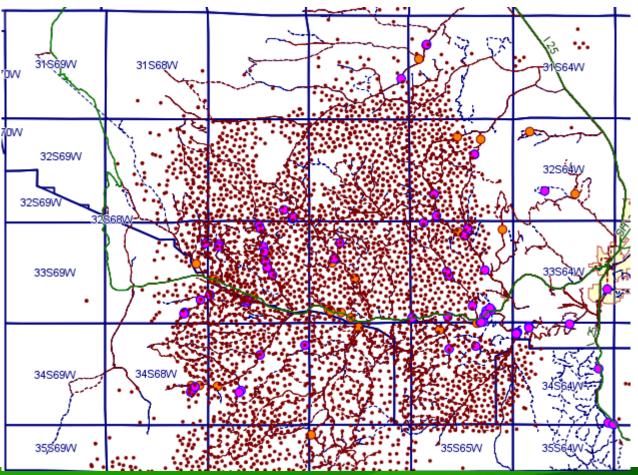
Methane Seepage Mapping

- Proactively and Systematically locate and survey methane gas seepage
- Document Previous Areas of Seepage
- Calculate differences in seepage amounts
- Assess the potential of methane to create hazardous conditions





Methane Seepage Mapping Locate and survey methane seepage



Effort in Process

- Evaluate existing data.
- Driving Surveys
- COGCC Rule required surveys
- Geologic Data

May-June 2024

 Conduct Aerial Survey – Gas Mapping LiDAR in a subset of the basin

Map image from COGIS GIS Online

Measuring Seepage Rates



Images from www.portablefluxmeter.com

July 2024

- No baseline data for comparing changes
- Collect seepage gas samples
- This project is a starting block





Methane Seepage Mapping Data review, compilation and reporting

Fall 2024 – Winter 2025

- Summary report with maps of seepage areas and seepage rates
- GIS of summary report for easier viewing
- Incorporated into final legislative report



Water Quality Study

Data review, sampling, analysis and reporting

Spring 2024 ECMC and WQCD have contracted firms to aid in data evaluation and reporting

- ECMC currently working with contractor to evaluate existing data set
- Existing CMB produced water data
- Existing Domestic Water Well data
- Existing WQCD NPDES discharge data
- Other potential sources



Water Quality Study Data review, sampling, analysis and reporting Fall 2024- Winter 2025 Spring 2024 June-July 2024 Data analysis ECMC and Additional Data WQCD have and reporting Collection by contracts contracted Based on with review by firms to aid in Identified ECMC and data evaluation needs or data WQCD Staff and reporting gaps



Questions and Feedback

https://ecmc.state.co.us/about.html#/contacts



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