

Operator: Encana

Facility 429326

Location SWSE 3 7S 92W

Garfield County

**Abatement or Corrective Actions:**

1. Submit a written engineering evaluation of the pipeline failure, and actions to be taken to prevent a repeat occurrences
2. Provide a work plan for an investigation into possible impacts from the release including
  - A. a desktop and field reconnaissance well search to identify both permitted and unpermitted domestic water wells, springs, ponds and other water features downgradient of the release location,
  - B. Sampling program to collect samples from the Guthrie well, Schultz well, and Janice Hunt spring utilizing the COGCC analytical suite (below), no later than July 10, 2012 to evaluate possible impacts to wells and spring(s) after infiltration time.
  - C. An additional sampling event for the 3 features is required by September 10, 2012.
  - D. Water features identified in the well search shall be sampled when identified and again by September 10, 2012 if they are located between the release location and the northern edge of NESE Section 27 6S 92W 6th meridian.
  - E. A comprehensive, interpretive report summarizing the investigation and results is due by October 15, 2012.
  - F. Sampling plan for collection of a sample representative of the E&P waste released and analysis for the suite attached.
3. Provide list of downstream Davis Ditch and Dry Hollow users with contact dates and user response .
4. If COGCC analytical sampling results indicate an impact, additional sampling may be required.
5. Provide pipeline testing records.

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## COGCC Analytical Suite:

Analysis	Method	Analyte list
SPECIFIC CONDUCTIVITY	EPA120.1	
PH	EPA150.1	
TOTAL DISSOLVED SOLIDS	EPA160.1	
Dissolved METALS - ICP	EPA200.7	BARIUM BORON CALCIUM CHROMIUM COBALT COPPER IRON LITHIUM MAGNESIUM MANGANESE NICKEL POTASSIUM SILICON SODIUM STRONTIUM VANADIUM ZINC
Dissolved Metals	EPA200.8	ANTIMONY ARSENIC MOLYBDENUM SELENIUM URANIUM
Alkalinity	EPA310.1	BICARBONATE AS CaCO3 CARBONATE AS CaCO3 HYDROXIDE TOTAL ALKALINITY AS CaCO3
Mercury	E245.1	
Inorganic anions	EPA300.0	BROMIDE CHLORIDE FLUORIDE SULFATE
Dissolved methane	RSK175	ETHANE ETHENE METHANE
GASOLINE RANGE ORGANICS	SW8015	
DIESEL RANGE ORGANICS	SW8015MCALUFT	
Semi-VOAs	SW8270	
VOAs	SW8260	
SODIUM ADSORPTION RATIO	lab calculated	
Total Organic Carbon	Method 413.1	
field observation:	sediment (present or absent)	
field observation:	odor	
field observation:	effervescence	
field observation:	particulates (present or absent, color)	

field observation:

field reading:

field reading:

color

temperature

volume/rate of purging