



## Basin Pipeline WC-4 Vault Release (Gravel Pit, Spill/Release ID #460722) Spill Update

1 message

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Thu, Jan 17, 2019 at 1:44 PM

To: Mike Leonard - DNR <mike.leonard@state.co.us>, Greg Deranleau - DNR <greg.deranleau@state.co.us>, Alex Fischer - DNR <alex.fischer@state.co.us>

Please forward this information to other agencies as you see fit.

### Caerus Piceance LLC Basin Pipeline WC-4 Vault Release (COGCC Spill/Release ID #460722)

**Prepared by S. Arauzo on January 17, 2019**

On January 14, 2019 at 4:30 PM Brett Middleton with Caerus Piceance LLC (Caerus) provided verbal notification to COGCC EPS Steven Arauzo of a spill outside of a valve can resulting in surface flow. A follow-up notification was provided via email by Michael McKee with Caerus at 6:17 PM.

On January 15, 2019 COGCC EPS Steven Arauzo and Western Integrity Inspector Richard Murray met with Brett Middleton, Blair Rollins, and Reed Koenek of Caerus for a joint field visit at 2:00 PM. Representatives from Caerus provided a verbal update of initial response efforts to the COGCC while walking the length of the flow path from south to north.

The following is a list of observations and information obtained during the January 15, 2019 field visit and subsequent daily correspondence between the COGCC and Caerus Piceance LLC:

#### Spill Information

- The source of the spill was a 3/8" stainless steel line that had ruptured inside of a subsurface vault that is part of the Caerus Basin Pipeline system.
- Produced water flowed from the ruptured line for an undetermined amount of time.
- The volume of produced water released is unknown, though initial estimates from Caerus range from 1,000-3,000 barrels.
- Caerus Gas Control was notified of the spill by Summit Midstream on January 14, 2019.

#### Flow Path

- Released fluids (a mixture of produced water and storm water) travelled south for ~1,000' from the Caerus vault, across the Orchard Compressor Station, primarily through a stormwater management ditch that follows the facility's east fence line, but also via surface flow within the compressor station.
- Released fluids then flowed into a series of sediment traps immediately south of the Orchard Compressor Station and crossed beneath an access road south of the station via a culvert into a sediment pond.
- From the sediment pond, released fluids entered an overflow channel on the east side of the sediment pond and travelled over 300' to the south, impacting the Una Pit (a triangular pit, part of the Una Pit complex) south of the Orchard Compressor Station.

#### Operator Response

- Caerus described January 14, 2019 initial response efforts to COGCC inspectors that included:
  - Dewatering of stormwater ditches and ponds via multiple vac trucks
  - Collection of water samples from stormwater ditches and ponds, including the sediment pond overflow channel and the inlet area to the Una Pit (see attached map).
  - Construction of a soil dam in the overflow channel to contain fluids.
  - Application of absorbent booms and pads at various points along flow path.
- Caerus collected a water sample from a groundwater spring located approximately 430' southeast of the source of the release during the January 15, 2019 field visit.

## COGCC Instructions

- COGCC instructed Caerus representatives to provide notification of the release to the CDPHE for surface water impacts and to the LGD for the county.
- COGCC also instructed Caerus representatives to submit an eForm 19 Initial Spill/Release Report to the COGCC to document initial response efforts.
- Caerus provided verbal notification of the spill to Anne Nedro of the CDPHE and Kirby Wynn with Garfield County on January 15, 2019.
- Caerus submitted an eForm 19 Initial Spill/Release Report (doc #401905874) to COGCC on January 15, 2019

## Sample locations and Preliminary Results

- Caerus describes confirmed detections of benzene, toluene, ethylbenzene, and total xylenes (BTEX) detected in a water sample collected from the stormwater pond overflow channel that leads into the Una Pit (Pond Inlet Sample).
- Preliminary BTEX concentrations are provided below for the Pond Inlet Sample
  - Benzene = 144 ppb
  - Toluene = 379 ppb
  - Ethylbenzene = 12 ppb
  - Total Xylenes = 282 ppb
- Attached is a map showing the locations of water samples that have been collected by Caerus Piceance LLC to date.
- In addition to water samples, Caerus reports that twenty-six (26) soil samples have been collected at various points along the flow path by LT Environmental.
- COGCC anticipates analytical data to be received over the next several days.

On January 16, 2019 COGCC provided a notification of impact to surface water email to the CDPHE-WQCD. The COGCC conditionally approved the operator's eForm 19 Spill/Release Report (Initial, doc #401905874) the same day. With the approval of the Spill Report, COGCC Spill/Release Point ID #460722 was assigned to the subject spill.

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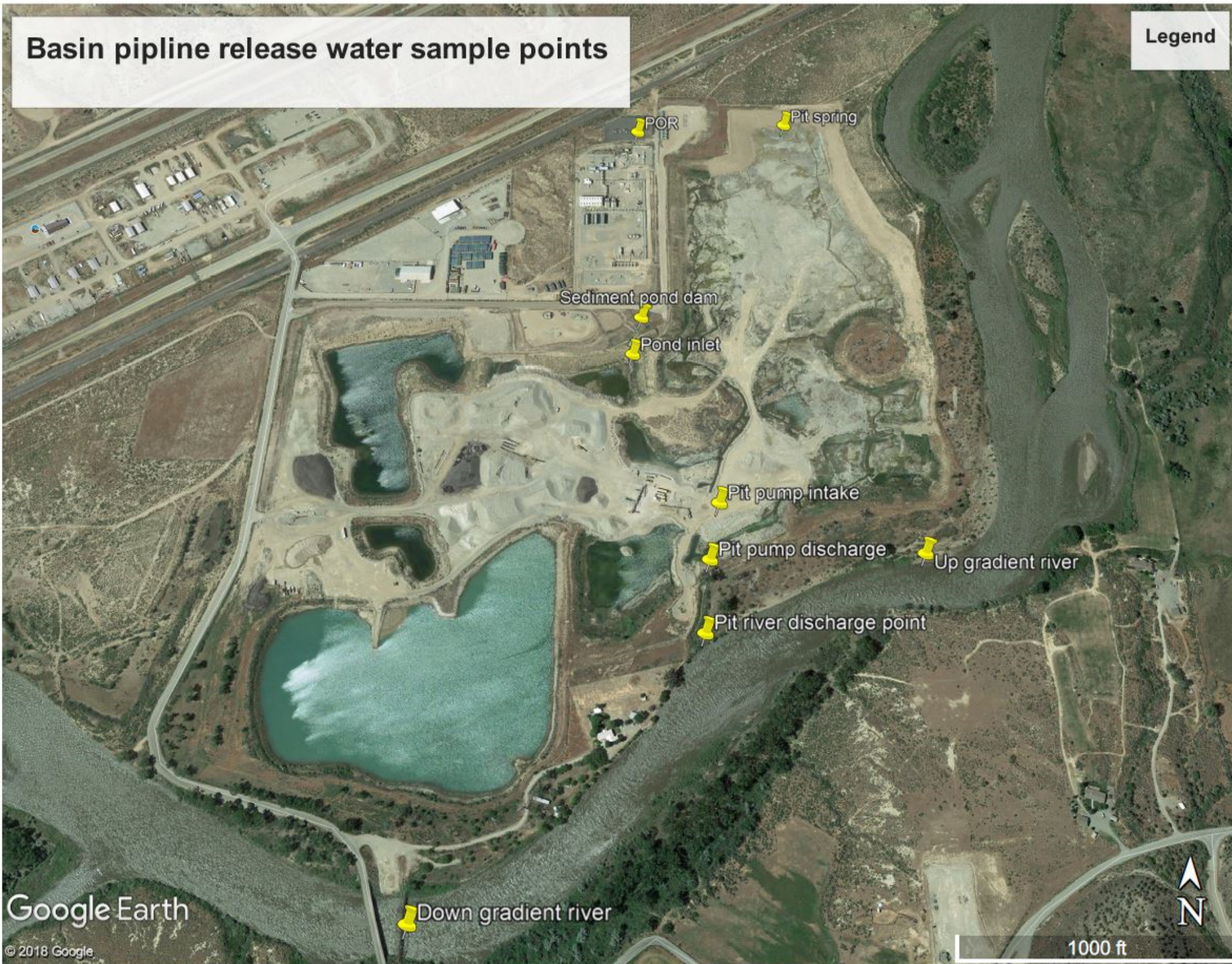
**20190117\_Basin Map.pdf**

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# Basin pipeline release water sample points

Legend



Google Earth

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