



Taproot Energy Partners  
555 17<sup>th</sup> Street, STE 800  
Denver, CO 80202

**ATTENTION: Dave Brazeal**

**RE: Taproot – Produced Water Release at Big Mountain Viper**

On September 5, 2022, Environmental Works, Inc. (EWI) received a request from Taproot for emergency response services for a produced water release at the Big Mountain Viper pad production site, located near New Raymer, CO.

Upon receipt of the emergency response request, EWI coordinated with team members to mobilize to the site. 1 Project Manager, 1 Supervisor, 1 Technician and 2 Operators were dispatched to the project site. The following is the timeline of events that occurred during the emergency response.

**0145-0430 hrs:**

EWI received the call from Taproot. Personnel are dispatched to the shop to prepare and load equipment for the response. The Project Manager and Supervisor head to the site to assess the release.

**0430-0530 hrs:**

EWI Project Manager and Supervisor arrive onsite and meet with Taproot and Civitas personnel. Roughly 300 barrels of produced water was estimated to be released from a failed underground pipeline. The impacted area was roughly 25,000 square feet, including some impaction of an adjacent property. EWI personnel stakes an outline of the impacted area of the adjacent property.

**0530-0730 hrs:**

EWI dispatches 2 Liquid Vac trucks, 2 operators and 1 Technician to the site to begin removing all areas of free liquids.

**0730-0930 hrs:**

EWI Liquid Vacs arrive onsite and begin removing free liquids.

**0930-1130 hrs:**

EWI Liquid Vacs complete the removal of the free liquids. The Liquid Vacs transport the waste to Pawnee Waste, the local landfill. US Hydro arrives onsite and begins working in the primary excavation area to find the failed pipeline.

**1130-1530 hrs:**

US Hydro continues the work in the primary excavation until the failure in the pipeline is located. The Hydro Excavator transports its waste to Pawnee Waste.



[environmentalworks.com](https://environmentalworks.com)



ER: 877.827.9500



816.285.8410



1731 Locust St. | Kansas City, MO 64108

SPRINGFIELD, MO · KANSAS CITY · ST. LOUIS · NW ARKANSAS · TULSA · MEMPHIS · DECATUR, IL · DENVER

**1530-1600 hrs:**

EWI works with Taproot personnel to acquire a site plan for the following days. Site is secured and all personnel are offsite.

**Excavation**

Further excavation of the impacted areas took place from September 6 to September 8. The primary excavation trench was approximately 88 linear feet with a maximum depth of 9 feet and a trench floor of approximately 250 square feet. The secondary exaction area was approximately 25,000 square feet with 3-6 inches of impacted soil removed. 11 surface samples, 2 background samples, 6 sidewall samples and 2 floor samples were taken after excavation of the impacted areas were complete. These samples are shown on Figure 1A and Figure 1B and are pending analysis with Origins Labs in Wheat Ridge, CO.

**Waste**

All waste was transported to Pawnee Waste, LLC for disposal. A total of 176.18 Barrels of liquid waste and 453.41 tons of impacted soil was disposed of. Waste documentation is attached herein.

**Reporting**

Attached to this report is a site map and photolog to assist with the submission of the Supplemental Form 19 due within 10 days of the release. Analytical results for the soil samples stated above will be addressed upon arrival. Adam Kubat will be assisting Taproot regarding analytical results. Adam's contact information is listed below:

Adam Kubat  
507-475-2825  
[akubat@environmentalworks.com](mailto:akubat@environmentalworks.com)

EWI appreciates the opportunity to provide these services. Should there be any additional questions, please contact Kyle Resseguie at (785) 979-4043.

Sincerely,  
Kyle Resseguie  
Project Manager  
Environmental Works, Inc.