



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0470
Fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
dep.wv.gov

**CONSENT ORDER
ISSUED UNDER THE
WATER POLLUTION CONTROL ACT
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 11**

TO: Columbia Gas Transmission, LLC
Attn: Troy Tally, Vice President
1700 MacCorkle Ave
Charleston, WV 25314

DATE: October 1, 2020
ORDER NO.: 9061

INTRODUCTION

This Consent Order is issued by the Director of the Division of Water and Waste Management (hereinafter “Director”), under the authority of West Virginia Code, Chapter 22, Article 11, Section 1 et seq. to Columbia Gas Transmission, LLC.

FINDINGS OF FACT

In support of this Order, the Director hereby finds the following:

Registration No. WVR310872

1. Columbia Gas Transmission, LLC is conducting land disturbance activity associated with construction of the Mountaineer Xpress Project in Marshall, Wetzel, Tyler, Doddridge, Ritchie, Calhoun, Wirt, Roane, Jackson, Mason, Putnam, and Cabell Counties, West Virginia. On January 31, 2018, Columbia Gas Transmission, LLC was issued Water Pollution Control Permit No. WV0116815, Registration No. WVR310872, for Stormwater Associated With Oil and Gas Related Construction Activities.
2. On September 25, 2018, West Virginia Department of Environmental Protection (WVDEP) personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
 - a. Section F.2.a. - Columbia Gas Transmission, LLC failed to report noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances using the designated spill alert telephone number. Specifically, a

Promoting a healthy environment.

- piece of equipment was leaking diesel fuel onto the ground, which ultimately discharged into the Unnamed Tributary (UNT) of Neds Run. This spill was not reported by Columbia Gas Transmission, LLC until September 26, 2018 at approximately 11:49 AM.
- b. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. Perimeter controls, ditch checks, water bars, and water bar terminus Best Management Practices (BMPs) that were not properly operated and maintained were noted throughout the inspected area.
 - c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. Sediment laden water was leaving the site due to improperly operated and/or poorly maintained BMPs throughout the inspected area.
 - d. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Concentrated flow was being directed over fill slopes from the CR 5 crossing to 2250+00 due to water bar failures. Fill slope erosion was noted as a result.
 - e. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids and an oily slick in the UNT of Neds Run (39° 21.175 X 80° 41.705') and by creating distinctly visible settleable solids in the UNT of Neds Run (39° 21.099' X 80° 41.670').
 - f. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits in the UNT of Neds Run (39° 21.175 X 80° 41.705').
 - g. 47CSR2 Section 3.2.c. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating petroleum odors in the vicinity of the UNT of Neds Run (39° 21.175 X 80° 41.705').

As a result of the aforementioned violations, Notice of Violation (NOV) No. W18-09-075-TJC was issued to Columbia Gas Transmission, LLC.

3. On October 4, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
 - a. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Concentrated flow was being directed over unprotected fill slopes throughout the inspected area.
 - b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Improperly constructed water bars were noted throughout the inspected area. Water bars that did not discharge stormwater off of the Limits of Disturbance (LOD) in small quantities as designed were noted.
 - c. Section B - Columbia Gas Transmission, LLC failed to comply with the approved Storm Water Pollution Prevention Plan (SWPPP). Specifically, Columbia Gas Transmission, LLC failed to install the perimeter silt fence that was indicated in the approved SWPPP adjacent to 2019+00.
 - d. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device.

- e. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit to reduce the tracking of sediment onto public or private roads.
- f. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the UNT of McElroy Creek (SDOI 201 and SDOI202) (39° 24.456' X 80° 40.816').
- g. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits in the following three (3) locations: the UNT of Riggins Run (SDOI006) (39°23.824' X 80° 41.061'), the UNT of McElroy Creek (SDOI008) (39° 24.006' X 80° 40.906'), and the UNT of McElroy Creek (SDOI 201 & SDOI202) (39° 24.456' X 80° 40.816').

As a result of the aforementioned violations, NOV No. W18-09-100-TJC was issued to Columbia Gas Transmission, LLC.

- 4. On October 17, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
 - a. Section D.1. - Columbia Gas Transmission, LLC failed to maintain all systems of treatment. Specifically, several areas of silt fence were in poor repair and/or full of sediment.
 - b. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. The water bars listed on Sheet No. 6 of Spread No. 7 were not installed on the slope above Station 6705+00.
 - c. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State. Specifically, sediment deposits were observed in SJAG316 near Station 6705+00.

As a result of the aforementioned violations, NOV Nos. W18-08-001-RTH, W18-08-002-RTH, and W18-08-003-RTH were issued to Columbia Gas Transmission, LLC.

- 5. On November 1, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, a violation of the following section of the permit was observed and documented:
 - a. Section G.4.e.2.D.i - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site. The construction entrance off Rt 21 was installed, but exiting vehicles were circumventing the wash station.

As a result of the aforementioned violation, NOV No. W18-18-384-MBC was issued to Columbia Gas Transmission, LLC.

- 6. On November 2, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of the permit were observed and documented:

- a. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit to reduce the tracking of sediment onto public or private roads at AR-20 (ARDO-001.5), AR-18 (ARDO002.7) and AR-17 (ARDO002.8).
- b. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site. Riggins Run Road (CR 5) had large amounts of mud that originated from AR-20 (ARDO-001.5).

As a result of the aforementioned violations, NOV No. W18-09-105-TJC was issued to Columbia Gas Transmission, LLC.

7. On November 7, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the permit were observed and documented:

- a. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device.
- b. Section D.1. - Columbia Gas Transmission, LLC failed to properly operate and maintain sediment controls near McIntyre Fork Run.

As a result of the aforementioned violations, NOV No. W18-52-034-RDD was issued to Columbia Gas Transmission, LLC.

8. On November 8, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:

- a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. BMPs in need of maintenance, including perimeter controls, equipment bridge BMPs, water bars, and water bar terminus BMPs, were present throughout the inspected areas of Spread 4.
- b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Improperly installed perimeter controls, equipment bridge BMPs, water bars, and water bar terminus BMPs were noted throughout the inspected areas of Spread 4.
- c. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Existing access roads that required construction activities lacked installed erosion and sediment controls. There were several new and existing access roads where run-on stormwater was not captured by upgradient ditching and conveyed beneath the access roads via cross drains/culverts, as indicated in the approved SWPPP.
- d. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Concentrated flow stormwater was being directed over unprotected fill slopes as a result of improperly installed water bars throughout the inspected areas of Spread 4.
- e. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device in areas with unmaintained BMPs, improperly installed BMPs, and uninstalled BMPs that were indicated on the approved SWPPP.

- f. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the following three (3) locations: Georgescamp Run (39°14.817' X 80°44.531'), the UNT of Georgescamp Run (39°15.200' X 80°44.046'), and the UNT of Left Fork of Arnolds Creek (SDOG040) (39°13.294' X 80°46.957').
- g. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits in the following seven (7) locations: Georgescamp Run (39°14.817' X 80°44.531'), the UNT of Georgescamp Run (39°15.200' X 80°44.046'), the UNT of Bluestone Creek (SDOG0215) (39°14.754' X 80°45.138'), the wetland of the UNT of Bluestone Creek (WDOG502) (39°14.422' X 80°45.863'), the UNT of Taylor Drain (SDOH012) (39°11.386' X 80°50.309'), the UNT of Sugar Run (SDOH008) (39°11.070' X 80°51.112'), and the Taylor Drain (SDOG071) (39°11.469' X 80°50.183').

As a result of the aforementioned violations, NOV No. W18-09-106-TJC was issued to Columbia Gas Transmission, LLC.

- 9. On November 18, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
 - a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. BMPs, including perimeter controls, equipment bridge BMPs, and water bar terminus BMPs in need of maintenance were noted throughout the inspected area.
 - b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Improperly installed perimeter controls were noted throughout the inspected area.
 - c. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Access roads that were in poor/muddy condition and were not graveled as indicated in the approved SWPPP were noted in the Bluestone Creek and Georgescamp Run watersheds. Existing access roads that required construction activities lacked installed erosion and sediment controls. There were several new and existing access roads where run-on stormwater was not captured by upgradient ditching and conveyed beneath the access roads via cross drains/culverts as indicated in the approved SWPPP.
 - d. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device throughout the inspected area.
 - e. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the following nine (9) locations: Georgescamp Run (39° 15.092' X 80° 43.970'), the UNT of Bluestone Creek (SDOG215) (39°14.770' X 80° 45.130'), the UNT of Georgescamp Run (39°15.182' X 80° 44.033'), the UNT of Georgescamp (39°14.764' X 80° 44.733'), the UNT of Bluestone Creek (39° 14.425' X 80° 45.817'), the Georgescamp of Run (39° 14.817' X 80° 44.539'), the UNT of Georgescamp Run (SDOG048) (39° 15.261' X 80° 44.096), Georgescamp Run

(SDOG055) (39° 15.467' X 80° 43.492') and Bluestone Creek (SDOG536) (39° 14.749' X 80° 45.488').

- f. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits in the following five (5) locations: the UNT of Bluestone Creek (39° 14.761' X 80° 45.019'), the UNT of Georgescamp Run (39° 14.614' X 80° 44.951'), the UNT of Georgescamp Run (39° 15.182' X 80° 44.033'), the UNT of Georgescamp (39° 14.764' X 80° 44.733'), and the UNT of Bluestone Creek (39° 14.425' X 80° 45.817').

As a result of the aforementioned violations, NOV No. W18-09-108-TJC was issued to Columbia Gas Transmission, LLC.

10. On November 26, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of the permit were observed and documented:

- a. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit to reduce the tracking of sediment onto public or private roads. The access road construction entrance at the WV 23 crossing that leads to staging areas 26 and 27 was not stabilized as indicated in the approved SWPPP.
- b. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site. The access road construction entrance at the WV 23 crossing that leads to staging areas 26 and 27 was not stable, and mud was tracked onto the public road (WV-23).

As a result of the aforementioned violations, NOV No. W18-09-110-TJC was issued to Columbia Gas Transmission, LLC.

11. On November 29, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:

- a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. BMPs in need of maintenance, including perimeter controls, equipment bridge BMPs, and access road stabilization, were noted throughout the inspected area. Improperly operated BMPs on ARDO008.2 led to offsite sediment laden water.
- b. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Access roads that were in poor/muddy condition and were not graveled as indicated in the approved SWPPP were noted throughout the inspected area. Existing access roads that required construction activities lacked installed erosion and sediment controls on ARDO009.3.
- c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site throughout the inspected area without going through an appropriate device.
- d. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit to reduce the tracking of sediment onto public or private roads. ARDO002.41 (Ralphs Run Access) lacked a stable construction entrance, and

- a large amount of track-out was noted on the adjacent public road (Ralphs Run Road CR-12) as a result.
- e. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site. ARDO002.41 (Ralphs Run Access) lacked a stable construction entrance, and a large amount of track-out was noted on the adjacent public road (Ralphs Run Road CR-12) as a result.
 - f. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the following two (2) locations: Georgescamp Run (39° 15.093' X 80° 43.982') and Georgescamp Run (39° 14.986' X 80° 44.174').
 - g. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits on the bottom of the UNT of Bluestone Creek (39° 13.496' X 80° 45.815').

As a result of the aforementioned violations, NOV No. W18-09-112-TJC was issued to Columbia Gas Transmission, LLC.

12. On December 3, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
 - a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. BMPs in need of maintenance, including equipment bridge BMPs and water bar terminus BMPs, were noted on ARDO007.6.
 - b. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. ARDO007.6 was in poor/muddy condition and was not graveled as indicated in the approved SWPPP. The road surface was disturbed, required construction activities, and lacked installed erosion and sediment controls.
 - c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site throughout the inspected area without going through an appropriate device.
 - d. Section G.4.c - Columbia Gas Transmission, LLC failed to modify its SWPPP when there was a change in design, construction, scope of operation, or maintenance, which had a significant effect on the potential for the discharge of pollutants to the waters of the State, or the SWPPP proved to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges. Columbia Gas Transmission, LLC installed pieces of silt fence along the western edge of the project adjacent to 2611+00. There were gaps in the silt fence that allowed sediment laden stormwater to discharge offsite without going through an approved device. Columbia Gas Transmission, LLC failed to modify the SWPPP to add an approved device in this area.
 - e. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit at the ARDO008/WV18 crossing to reduce the tracking of sediment onto public or private roads.
 - f. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the

- following two (2) locations: the UNT of Meathouse Fork (39° 16.512' X 80° 43.125') and the UNT of Douglascamp Run (39° 16.284' X 80° 42.421').
- g. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits in the following two (2) locations: the UNT of Douglascamp Run (39° 16.284' X 80° 42.421') and the UNT of Meathouse Fork (39° 16.354' X 80° 43.179').

As a result of the aforementioned violations, NOV No. W18-09-114-TJC was issued to Columbia Gas Transmission, LLC.

13. On December 4, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, a violation of the following section of the permit was observed and documented:
- a. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site.

As a result of the aforementioned violation, NOV No. W18-18-005-JTL was issued to Columbia Gas Transmission, LLC.

14. On December 4, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, a violation of the following section of the terms and conditions of the permit was observed and documented:
- a. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site.

As a result of the aforementioned violation, NOV No. W18-18-006-JTL was issued to Columbia Gas Transmission, LLC.

15. On December 5, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
- a. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. An improperly installed perimeter control on ARDO002.9 (Big Flint Road/CR-3 access) allowed sediment laden water to bypass under the BMP.
- b. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site at ARDO002.9 without going through an appropriate device.
- c. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site. ARDO008/WV18 crossing accesses lacked a stable construction entrance, and track-out was noted on the adjacent public road as a result.
- d. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit to reduce the tracking of sediment onto public or private roads. ARDO008/WV18 crossing accesses lacked a stable construction entrance.

- e. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the UNT of Flint Run (39° 20.930' X 80° 42.406').

As a result of the aforementioned violations, NOV No. W18-09-116-TJC was issued to Columbia Gas Transmission, LLC.

- 16. On December 12, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, a violation of the following section of the permit was observed and documented:

- a. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site.

As a result of the aforementioned violation, NOV No. W18-40-007-JTL was issued to Columbia Gas Transmission, LLC.

- 17. On January 28, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, a violation of the following section of the terms and conditions of the permit was observed and documented:

- a. Section G.4.e.2.A.ii.j. - Columbia Gas Transmission, LLC allowed sediment laden water to leave the site without going through an appropriate device at/near Station number 6825+00.

As a result of the aforementioned violation, NOV No. W19-18-001-JTL was issued to Columbia Gas Transmission, LLC.

- 18. On February 12, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the terms and conditions of the permit were observed and documented:

- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. At Station Nos. 5359+00 and 5376+00, slopes were eroded, with evidence of concentrated flows overwhelming perimeter controls, causing sediment-laden water to leave the site at multiple locations. Above and below Station No. 5405+37, sediment deposits were observed past the Limits of Disturbance, sediment-laden water was flowing past the Limits of Disturbance at multiple waterbar outlets to a roadside ditch, and controls were not being maintained. Slopes had multiple areas of gully erosion, and there was evidence that waterbars were being overwhelmed at the Munchausen Road crossing at Station No. 5407+07. At the Stutler Road Crossing, controls were being overwhelmed, and sediment-laden water was flowing under controls and entering SROC-002 near station 5453+84. At the Hwy 14 Crossing/Stream SROC-030, sediment-laden water was overwhelming controls and leaving the site above stream SROC-030.
- b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. At Station No. 5407+07, slopes had multiple areas of gully erosion and waterbars

- were being overwhelmed. Between Station Nos. 5359+00 and 5376+00, slopes had erosion, with evidence of concentrated flows overwhelming perimeter controls.
- c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. At Station Nos. 5359+00 and 5376+00, sediment-laden water was flowing past controls and leaving the site. Sediment-laden water was flowing under controls and entering SROC-002 near Station No. 5453+84. Above and below Station No. 5405+37, sediment deposits were beyond the limits of disturbance, and sediment-laden water was flowing past the limits of disturbance at multiple waterbar outlets.
 - d. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls appropriate for the project. There were multiple areas of erosion on the slopes, waterbar outlets were allowing sediment-laden water to leave the site, and perimeter controls were not functioning.
 - e. Section G.4.c. - Columbia Gas Transmission, LLC failed to modify the SWPPP when it proved to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges. The SWPPP required modification due to multiple failures of controls that resulted in sediment-laden water leaving the site.

As a result of the aforementioned violations, NOV No. W19-44-004-JTL was issued to Columbia Gas Transmission, LLC.

19. On February 14, 2019, WVDEP and Columbia Gas Transmission, LLC entered into Order No. 8889. The Order was issued in response to Columbia Gas Transmission, LLC's violations of WV Legislative Rule and the permit that were observed and documented from the time period of April 12, 2018 through September 12, 2018.
20. On February 21, 2019, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
 - a. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Several erosion control devices were not in place as detailed by the SWPPP. Run-on stormwater at ARDO002.8 was captured by upgradient ditching; however, it was not conveyed beneath the access roads via cross drains/culverts as indicated in the approved SWPPP. The upslope ditch was not stabilized as indicated in the approved SWPPP. An upslope ditch with compost filter sock ditch checks and small water bars was in place; however, the installed water bars lacked water bar terminus BMPs.
 - b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. There were improperly installed/maintained ditch checks and improper or lack of drop inlet protection. Improperly installed water bars adjacent to 2256+00 did not discharge stormwater offsite in small quantities as designed. An improperly installed perimeter control adjacent to 2260+00 allowed sediment laden water to bypass the device.
 - c. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Fill slope erosion was noted adjacent to 2256+00 due to concentrated flow being directed over unprotected fill slopes.

- d. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. Offsite sediment deposits were noted adjacent to 2256+00 and adjacent to 2260+00 as a result of sediment laden water bypassing improperly installed BMPs.
- e. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits on the bottom of the UNT of Neds Run (SDOG353) (39° 21.203' X 80° 41.731')

As a result of the aforementioned violations, NOV No. W19-09-015-TJC was issued to Columbia Gas Transmission, LLC.

21. On February 26, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the terms and conditions of the permit were observed and documented:

- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. Multiple controls had holes and were being undermined.
- b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls appropriate for the project. Multiple slips were occurring, there were sediment deposits beyond controls, and multiple slopes had erosion.
- c. Section G.4.c. - Columbia Gas Transmission, LLC failed to modify the SWPPP when it proved to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges. There were sections of the right of way with slips, there were sediment deposits beyond controls, there was run-on causing erosion on the right of way, and there was erosion of fill slopes.

As a result of the aforementioned violations, NOV No. W19-18-005-JTL was issued to Columbia Gas Transmission, LLC.

22. On March 29, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the permit were observed and documented:

- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. Between Station Nos. 5140+00 and 5180+00, multiple slopes had erosion with concentrated flows overwhelming perimeter controls, resulting in sediment leaving the site and being deposited beyond controls and the limits of disturbance.
- b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Between Station Nos. 5140+00 and 5180+43, slopes had erosion and slips with concentrated flow overwhelming perimeter controls.
- c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. Between Station Numbers 5140+00 and 5180+43, there were multiple areas with sediment deposits beyond controls.

- d. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls appropriate for the project. Multiple areas of erosion on slopes and slips were actively occurring on the right of way, waterbar outlets were allowing concentrated flow on slopes which was contributing to controls being overwhelmed, and sediment was leaving the site without going through an appropriate device.
- e. Section G.4.c. - Columbia Gas Transmission, LLC failed to modify the SWPPP when it proved to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges. The SWPPP required modification due to multiple control failures, erosion, and slips that were causing sediment to leave the site.

As a result of the aforementioned violations, NOV No. W19-53-006-JTL was issued to Columbia Gas Transmission, LLC.

23. On April 5, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the terms and conditions of the permit were observed and documented:
- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. Multiple slopes had erosion and concentrated flows. Waterbars were not functioning properly above stream SJAG-316.
 - b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Slopes and the right of way had erosion due to waterbars discharging at the top of the slope with no outlet protection and not being discharged properly above stream SJAG-316.
 - c. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls appropriate for the project. There were multiple areas of erosion on slopes. Waterbar outlets were terminating at the top of slopes and into the topsoil pile above stream SJAG-316, creating concentrated flow on slopes and erosion on the right of way and fill slope.

As a result of the aforementioned violations, NOV No. W19-18-007-JTL was issued to Columbia Gas Transmission, LLC.

24. On April 29, 2019, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of the permit were observed and documented:
- a. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Improperly installed water bars were noted throughout the inspected area. Water bars were installed at steep angles (> 12%), were discharging concentrated flow over unprotected fill slopes, and were installed with less than sixteen (16) inches of height.
 - b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Fill slope erosion was occurring due to improperly installed water bars that placed concentrated flow stormwater across unprotected fill slopes.

As a result of the aforementioned violations, NOV No. W19-09-040-TJC was issued to Columbia Gas Transmission, LLC.

25. On May 21, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
- a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. Maintenance of all installed BMPs was lacking throughout the inspected area. Failed water bars that were in need of maintenance placed concentrated flow over unprotected fill slopes. Water bar terminus BMPs were inundated with sediment and caused offsite sediment deposits. Perimeter controls and equipment bridge BMPs were in need of maintenance.
 - b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Water bars that were improperly installed were noted frequently throughout the inspected area. Water bars were constructed at angles greater than the 12% indicated in the approved SWPPP; water bars did not extend across the entire width of the right of way as indicated in the SWPPP which allowed concentrated flow stormwater to be directed over fill slopes, and water bars were constructed at a height less than six (6) inches. Improperly installed perimeter controls were noted frequently throughout the inspected area. Perimeter controls that were improperly merged with the installed equipment mat BMP were noted.
 - c. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Water bars in the Sugar Run watershed lacked the outlet treatment that is indicated in the approved SWPPP. Water bars in the Taylor Drain watershed were not installed as indicated in the approved SWPPP. According to the site representative, BMPs were recently removed on ARDO009.1 due to flooding that occurred as a result of the rain on May 12, 2019. Several of the BMPs had not been replaced.
 - d. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Concentrated flow stormwater was being directed over unprotected fill slopes due to water bar failures from poor maintenance, improper installation, and areas where water bars were not installed as indicated in the approved SWPPP.
 - e. Section G.4.e.2.A.i.c. - Columbia Gas Transmission, LLC failed to reseed areas throughout the inspected area that did not germinate within thirty (30) days after seeding. Areas where seeding occurred in December 2018 had not been reseeded.
 - f. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. This deficiency occurred due to unmaintained BMPs, improperly installed BMPs, and BMPs that were not installed as indicated in the approved SWPPP.
 - g. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment in the following eight (8) locations: the UNT of Sugar Run (39° 11.075' X 80° 51.108'), Taylor Drain (39° 11.446' X 80° 50.167'), the UNT of S. Fork of Hughes River (39° 11.596' X 80° 49.384'), the UNT of Trap Run (39° 11.375' X 80° 49.679'), the UNT of Trap Run (39° 11.342' X 80° 49.611'), the UNT of S. Fork of Hughes River (39° 11.467' X 80° 49.011'), the UNT of Taylor Drain (39° 11.391' X 80° 50.386'), and the UNT of Georgescamp Run (39° 15.134' X 80° 44.327').

As a result of the aforementioned violations, NOV No. W19-09-049-TJC was issued to Columbia Gas Transmission, LLC.

26. On May 30, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the terms and conditions of the permit were observed and documented:
- a. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Improperly installed water bars were noted throughout the MXP-100 inspected areas. Water bars did not discharge stormwater offsite in small quantities as designed, discharged concentrated flow over unprotected fill slopes, and were constructed at steep angles.
 - b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Fill slope erosion was noted due to concentrated flow being directed over unprotected fill slopes, which resulted from improperly installed water bars throughout the MXP-100 inspected areas.

As a result of the aforementioned violations, NOV No. W19-09-051-TJC was issued to Columbia Gas Transmission, LLC.

27. On June 25, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:
- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. Between Station Nos. 5337+60 and 5396+00, multiple slopes had erosion, resulting in sediment overwhelming perimeter controls, causing sediment laden water to leave the site and sediment to be deposited beyond controls and the limits of disturbance.
 - b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Between Station Nos. 5337+00 and 5396+00, slopes had erosion and slips below waterbar outlets and in areas where run-on was saturating the right of way and overwhelming perimeter controls with sediment. At Station No. 5643+50, erosion was present below waterbars that were not functioning properly due to being tied into a topsoil pile. Above Stream SROC 029, erosion was present on the slope above perimeter controls.
 - c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. At Station No. 5355+67, sediment laden water was leaving the site due to unmaintained waterbar outlets, causing fill slopes to erode and overwhelm perimeter controls. At Station No. 5396+00, a waterbar had been eroded at the terminus, leading to sediment deposits beyond controls and the limits of disturbance. At Station No. 5643+00, erosion was present downslope of eroded and unmaintained waterbars, leading to sediment laden water and deposits beyond the limits of disturbance above stream SRUA 005. At Station No. 5638+46, sediment deposits were observed beyond controls, impacting a pond approximately thirty (30) feet past the limits of disturbance and conveying sediment laden water into Stream SROC 029.

- d. Section G.4.e.2.C.i. - Columbia Gas Transmission, LLC failed to dispose of all solid waste/demolition material in accordance with West Virginia Legislative Rule 33CSR1. At Station No. 5643+00, solid waste in the form of metal cans, paint brushes and other debris used to coat pipe, and other material was located in a pile and partially buried on the right of way.
- e. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in Stream SROC 029 at Station No. 5638+46 MXP ROW.

As a result of the aforementioned violations, NOV No. W19-44-020-JTL was issued to Columbia Gas Transmission, LLC.

28. On July 2, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:

- a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. BMPs that were in need of maintenance were noted throughout the inspected area. Failed water bars that were in need of maintenance placed concentrated flow over unprotected fill slopes. Water bar terminus BMPs were inundated with sediment and caused offsite sediment deposits. Perimeter controls and equipment bridge BMPs were in need of maintenance. The stone surface of ARDO13.5 was in need of maintenance.
- b. Section G.4.e.2. - Columbia Gas Transmission, LLC failed to properly implement controls. Water bars were improperly installed throughout the inspected area. Water bars were constructed at angles greater than the 12% indicated in the approved SWPPP; water bars did not extend across the entire width of the right of way as indicated in the SWPPP which allowed concentrated flow stormwater to be directed over fill slopes; water bars were constructed at a height less than six (6) inches; and water bars that terminated inside of the installed perimeter controls did not discharge stormwater offsite in small quantities as designed. In many cases, these deficiencies led to fill slope erosion and offsite sediment deposits due to the overwhelming of BMPs downslope of the failed water bar. Improperly installed and/or merged perimeter controls were noted frequently throughout the inspected area. Throughout the site, silt fence was being utilized in areas of concentrated flow stormwater as a water bar terminus BMP. Belted silt retention fence or the equivalent was not used at the terminus of water bars as indicated in the SWPPP.
- c. Section G.4.c - Columbia Gas Transmission, LLC failed to modify its SWPPP when it proved to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges. The SWPPP was inadequate adjacent to 3314+00, because it did not indicate the need for perimeter controls in this area. Offsite sediment deposits were noted as a result of sediment laden water leaving the site without going through a device. This deficiency was noted on May 21, 2019; however, Columbia Gas Transmission, LLC failed to modify its SWPPP in response to the deficiency. On May 21, 2019, an area of concentrated flow run-on stormwater was noted adjacent to 3214+00, and the need to modify the SWPPP was discussed with the site representative. No action had been taken to address the run-on stormwater in this area, and fill slope erosion was noted as a result. The concentrated flow stormwater,

- as well as the sediment produced by the fill slope erosion, overwhelmed the installed perimeter controls in this area. To compound the issue, this area lacked adequate vegetative cover, and reseeded had not taken place. The installed perimeter controls were in need of maintenance, and an area of silt fence was not joined properly.
- d. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Water bars that lacked the water bar terminus treatment were noted in a throughout the inspected area. ARDO015.12 was disturbed and being utilized at the time of inspection, but lacked the upslope ditching, water bar/cross culverts, perimeter controls, and stoned surface stabilization that are indicated in the approved SWPPP.
 - e. Section G.4.e.2.A.i.c. - Columbia Gas Transmission, LLC failed to reseed areas that failed to germinate within thirty (30) days after seeding. The majority of this site was seeded in December 2018, but reseeded had not taken place.
 - f. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. This deficiency occurred due to unmaintained BMPs, failure to modify the SWPPP, improperly installed BMPs which allowed sediment laden water to bypass treatment, and failure to install BMPs indicated in the approved SWPPP.
 - g. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Concentrated flow stormwater was being directed over unprotected fill slopes due to water bar failures which resulted from poor maintenance, improper installation, and water bars that were not installed as indicated in the approved SWPPP. Fill slope erosion was noted adjacent to 3214+00, due to failure to modify the SWPPP to address concentrated flow run-on stormwater.
 - h. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits in the following seven (7) locations: the UNT of Sugar Run (39° 11.151' X 80° 50.816'), the UNT of Sugar Run (39° 11.075' X 80° 51.108'), the UNT of Left Fork of Arnolds Creek (SDOG040), the UNT of Left Fork of Arnolds Creek (SDOG056) (39° 13.388' X 80° 46.813'), the UNT of Left Fork of Arnolds Creek (SDOG057) (39° 13.355' X 80° 46.851'), the UNT of Trap Run (SDON826), and the UNT of Trap Run (SDON829).

As a result of the aforementioned violations, NOV No. W19-09-058-TJC was issued to Columbia Gas Transmission, LLC.

29. On July 3, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, a violation of the following section of the terms and conditions of the permit was observed and documented:

- a. Section G.4.e.2.A.ii.j. - Columbia Gas Transmission, LLC failed to prevent sediment laden water from leaving the site without going through an appropriate device below Station No. 7347+00 at the Sulu road crossing above 18-Mile Creek.

As a result of the aforementioned violation, NOV No. W19-40-019-JTL was issued to Columbia Gas Transmission, LLC.

30. On August 7, 2019, WVDEP personnel conducted inspections of the facility. During the inspections, violations of the following sections of the permit were observed and documented:
- a. Section D.1 - Columbia Gas Transmission LLC failed to operate and maintain all erosion control devices. Installed perimeter controls and timber mat equipment bridge BMPs were in need of maintenance. In addition, silt fence was not functioning properly, sumps were full, and water bars needed to be reconstructed.
 - b. Section G.4.e.2.A.ii.j - Columbia Gas Transmission LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. Sediment laden water was going around the silt fence and leaving the site.
 - c. Section G.4.e.2.A.ii.f - Columbia Gas Transmission LLC failed to protect fill slopes, which resulted in erosion.
 - d. Section G.4.e.2.D.i - Columbia Gas Transmission LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site, resulting in road ditches and culverts that were full of sediment.
 - e. Section G.4.e.2 - Columbia Gas Transmission LLC failed to properly implement controls. Silt fence was not functioning properly, sumps were full, water bars needed to be reconstructed, and fill slopes were eroding. Several areas were lacking control measures.
 - f. Section G.4.e.2.A.i.c - Columbia Gas Transmission LLC failed to reseed areas that failed to germinate within thirty (30) days.

As a result of the aforementioned violations, NOV Nos. W19-09-070-TJC and W19-43-002-DS were issued to Columbia Gas Transmission, LLC.

31. On August 8, 2019, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of the permit were observed and documented:
- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. At Station No. 8772+72, slopes had erosion with concentrated flows overwhelming perimeter controls. Controls had been overwhelmed with sediment on the edge of the limits of disturbance.
 - b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. At Station No. 8772+72, sections of the right of way had not been stabilized above a drainage. Erosion was occurring on slopes where waterbar outlet controls had failed. A section of the right of way had slips above downslope perimeter controls. Erosion was present in the drainage point of the right of way, due to the concentrated flow of run-off from areas with no controls in place to control/reduce the erosion. Erosion was occurring along the downslope perimeter controls on the edge of the limits of disturbance. Due to erosion on the slopes above the drainage point in the right of way, perimeter controls placed on the edge of the limits of disturbance were overwhelmed with sediment.

As a result of the aforementioned violations, NOV No. W19-06-027-JTL was issued to Columbia Gas Transmission, LLC.

32. On October 2, 2019, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the sections of the permit were observed and documented:
- a. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and control. There was erosion present on the slopes at Station Nos. 3368+00 through 3380+84, and perimeter controls were overwhelmed with sediment. Controls were overwhelmed with sediment at the edge of the LOD, and sediment deposits were present beyond the LOD.
 - b. Section G.4.e.2.A.ii.f – Columbia Gas Transmission, LLC failed to protect fill slopes. Sections of the ROW had not been stabilized at Station Nos. 3368+00 through 3380+84. Erosion was occurring on the slopes, which resulted in perimeter controls being overwhelmed and sediment being deposited beyond the LOD.
 - c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment laden water from leaving the site without going through an appropriate device. At Station Nos. 3368+00 and 3380+84, controls had failed and were not functioning as designed, which resulted in sediment being deposited beyond the LOD.

As a result of the aforementioned violations, NOV No. W19-43-031-JTL was issued to Columbia Gas Transmission, LLC.

Registration No. WVR310888

33. Columbia Gas Transmission, LLC is conducting land disturbance activity associated with construction of the Mountaineer Xpress Project in Calhoun, Doddridge, Jackson and Ritchie Counties, West Virginia. On October 2, 2017, Columbia Gas Transmission, LLC was issued Water Pollution Control Permit No. WV0116815, Registration No. WVR310888, for Stormwater Associated With Oil and Gas Related Construction Activities.
34. On December 3, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, a violation of the following section of the permit was observed and documented:
- a. Section G.4.e.1.E. - Columbia Gas Transmission, LLC failed to provide an adequate stone access entrance/exit to reduce the tracking of sediment onto public or private roads.

As a result of the aforementioned violation, NOV No. W18-09-115-TJC was issued to Columbia Gas Transmission, LLC.

35. On December 4, 2018, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:

- a. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device at the Compressor Station entrance at the Route 21 Crossing with right of way.
- b. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all facilities and systems. BMPs were not being maintained to limit impacts to the ephemeral stream that leads to Grasslick Creek.
- c. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site.
- d. 47CSR2 Section 3.2.a. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating distinctly visible settleable solids in the unnamed ephemeral stream that leads to Grasslick Creek.

As a result of the aforementioned violations, NOV No. W18-18-004-JTL was issued to Columbia Gas Transmission, LLC

36. On December 5, 2018, WVDEP personnel conducted an inspection of the facility. During the inspection, a violation of the following section of the permit was observed and documented:

- a. Section G.4.e.2.D.i. - Columbia Gas Transmission, LLC failed to inspect and clean all adjacent public and private roads of debris originating from the construction site. The construction access roads to WV 18 had a stoned construction entrance; however, the length of the stabilization proved inadequate, because construction traffic caused track-out of mud and debris onto the adjacent public road. A slick film of mud was on the road for approximately 0.5 miles from the project in each direction, which was causing hazardous road conditions for the public.

As a result of the aforementioned violation, NOV No. W18-09-117-TJC was issued to Columbia Gas Transmission, LLC.

37. On January 2, 2019, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of the permit were observed and documented:

- a. Section D.1. - Columbia Gas Transmission, LLC failed to properly operate and maintain all systems of treatment and controls. In several areas along the limits of disturbance, perimeter controls and BMPs were lacking maintenance or needed to be enhanced due to receiving concentrated flow from slopes and run-off. Fill slopes were receiving concentrated flow from run-off, and erosion rills were present on the slopes. This run-off was entering a diversion ditch that paralleled the south side slope and flowed into a control that was overwhelmed during rain events. Controls at the construction entrance and rock-lined ditch terminus had been overwhelmed, and off-site sediment deposits were present in the ditch that paralleled Route 21. On the south side of the project, perimeter silt fence was not being maintained. An access road known as "Buggy Road" had recently been stabilized with straw, a BMP had been overwhelmed, and sediment deposits were present beyond the BMPs and limits of disturbance.

- b. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. On the south side of the project at the top of the slope where the compressor station was being built, slopes were not stabilized.

As a result of the aforementioned violations, NOV No. W19-18-008-JTL was issued to Columbia Gas Transmission, LLC

38. On January 17, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of WV Legislative Rules and the permit were observed and documented:

- a. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. Sediment laden water from the truck wash installed on the construction access was being treated by stacks of compost filter sock downslope of the riprap outlet adjacent to the UNT of Meathouse Fork. The installed compost filter sock was inundated with sediment and in need of maintenance. The installed diversion along the southern edge of the project was eroded and in need of maintenance.
- b. Section G.4.e.2.A.ii.c. - Columbia Gas Transmission, LLC failed to provide inlet and outlet protection for sediment control structures. The inlet to Basin 1 was not stabilized.
- c. Section B - Columbia Gas Transmission, LLC failed to comply with the approved SWPPP. Proposed Sediment Basin Nos. 2 and 2b were not in place, and a rock filtration device was installed instead.
- d. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. Off-site sediment deposits were noted in the UNT of Meathouse Fork adjacent to the construction access.
- e. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Concentrated flow stormwater was being directed over the unprotected fill slope below the newly installed truck wash and erosion gullies were present.
- f. 47CSR2 Section 3.2.b. - Columbia Gas Transmission, LLC caused conditions not allowable in waters of the State by creating sediment deposits on the bottom of the UNT of Meathouse Fork (39° 16.134' X 80° 44.057').

As a result of the aforementioned violations, NOV No. W19-09-001-TJC was issued to Columbia Gas Transmission, LLC.

39. On May 7, 2019, WVDEP personnel conducted an inspection of the facility in response to a complaint. During the inspection, violations of the following sections of the terms and conditions of the permit were observed and documented:

- a. Section G.4.e.2 - Columbia Gas Transmission, LLC failed to implement controls appropriate for the project. No controls had been installed on the slope below the swale outlet, causing erosion on the slope. Outlet controls were not present on the west slope above the limits of disturbance. Super silt fence was not installed properly at the base of the west slope, allowing sediment to be deposited in the roadside ditch.

- Sediment deposits were present in multiple locations beyond controls in conveyances that lead to a UNT of Grasslick Run.
- b. Section G.4.e.2.A.ii.f - Columbia Gas Transmission, LLC failed to protect fill slopes. There was erosion on the fill slope on the west side of the project where the former access road was located. The slope below the swale outlet on the south side of the project had erosion.
 - c. Section G.4.e.2.A.ii.j - Columbia Gas Transmission, LLC failed to prevent sediment-laden water from leaving the site without going through an appropriate device. Sediment deposits were present in multiple conveyances that flow toward a UNT of Grasslick Run. Sediment deposits were present in the roadside ditch at the base of the west slope where regrading of the slope had taken place and where there had been an access road.
 - d. Section D.1 - Columbia Gas Transmission, LLC failed to properly operate and maintain all facilities and systems. Controls were not being maintained or installed properly along the perimeter of the construction site, allowing sediment deposits to enter conveyances that lead to the UNT of Grasslick Run and along the west side Route 21 ditch.

As a result of the aforementioned violations, NOV No. W19-18-011-JTL was issued to Columbia Gas Transmission, LLC.

40. On May 9, 2019, WVDEP personnel conducted an inspection of the facility. During the inspection, violations of the following sections of the terms and conditions of the permit were observed and documented:
 - a. Section B - Columbia Gas Transmission, LLC failed to comply with the construction sequence in the approved SWPPP. Crews were working on stabilizing the diversions to the sediment basin at the time of inspection, which was the first item to be accomplished in Phase 2. The stabilization of the diversions was not complete, even though the site had been in Phase 3 for a long period of time. The approved SWPPP indicates that the discharge pipe to the installed sediment basin will discharge into a stabilized diversion, which is described as a riprap spillway. The approved SWPPP also indicates that an outlet weir will be installed at the sediment trap outlet. The weir was not in place, and the water that was treated by the basin was discharged into an unstable diversion and treated by a makeshift BMP similar to a hay bale dewatering structure. The approved SWPPP indicates that slope interceptor filter logs/wattles (9" minimum) will be placed on the slope of the fill pad; however, the structures were not installed.
 - b. Section D.1. - Columbia Gas Transmission, LLC failed to operate and maintain all erosion control devices. The makeshift dewatering structure at the diversion outlet leading from the sediment basin was inundated with sediment and in need of maintenance. Diversions that were severely eroded and in need of maintenance were noted in the eastern portion of the project. The perimeter controls along two of the diversions were improperly installed and in need of maintenance. Perimeter controls that are in need of maintenance were noted along the northern edge of the temporary impact area.
 - c. Section G.4.e.2.A.ii.f. - Columbia Gas Transmission, LLC failed to protect fill slopes. Fill slope erosion was noted in the eastern portion of the project on the fill slope

adjacent to the fill pad. Concentrated flow was being directed over the unprotected fill slope.

As a result of the aforementioned violations, NOV No. W19-09-044-TJC was issued to Columbia Gas Transmission, LLC.

41. On August 4, 2020, WVDEP personnel met with Columbia Gas Transmission, LLC representatives to discuss the terms and conditions of this Order.

ORDER FOR COMPLIANCE

Now, therefore, in accordance with Chapter 22, Article 11, Section 1 et seq. of the West Virginia Code, it is hereby agreed between the parties, and ORDERED by the Director:

1. Columbia Gas Transmission, LLC shall immediately take all measures to initiate compliance with all terms and conditions of its permit and pertinent laws and rules.
2. Within twenty (20) days of the effective date of this Order, Columbia Gas Transmission, LLC shall submit for approval a proposed plan of corrective action and schedule, outlining action items and completion dates for how and when Columbia Gas Transmission, LLC will achieve compliance with all terms and conditions of its permit and pertinent laws and rules. The plan of corrective action shall include, but not be limited to, provisions for proper remediation of all areas identified in this Order where conditions not allowable were observed and documented in waters of the State, as defined in WV Legislative Rule 47CSR2 Section 3.2. In addition, the plan of corrective action shall include, but not be limited to, provisions for submittal of a report which documents that proper remediation of the aforementioned areas has occurred. The plan of corrective action shall make reference to Permit No. WV0116815, Registration Nos. WVR310888 and WVR310872, and Order No. 9061. The plan of corrective action shall be submitted to:

**Chief Inspector
Environmental Enforcement - Mail Code #031328
WVDEP
601 57th Street SE
Charleston, WV 25304**

Upon approval, the plan of corrective action and schedule shall be incorporated into and become part of this Order, as if fully set forth herein. Failure to submit an approvable plan of corrective action and schedule or failure to adhere to the approved schedule is a violation of this Order.

3. Because of Columbia Gas Transmission, LLC's Legislative Rule and permit violations, Columbia Gas Transmission, LLC shall be assessed a civil administrative penalty of six hundred twenty thousand eight hundred forty-one dollars (\$620,841) to be paid to the West Virginia Department of Environmental Protection for deposit in the Water Quality Management Fund within thirty (30) days of the effective date of this Order. Payments

made pursuant to this paragraph are not tax-deductible for purposes of State or federal law. **Payment shall include a reference to the Order No. and shall be mailed to:**

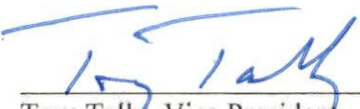
**Chief Inspector
Environmental Enforcement - Mail Code #031328
WV-DEP
601 57th Street SE
Charleston, WV 25304**

OTHER PROVISIONS

1. Columbia Gas Transmission, LLC hereby waives its right to appeal this Order under the provisions of Chapter 22, Article 11, Section 21 of the Code of West Virginia. Under this Order, Columbia Gas Transmission, LLC agrees to take all actions required by the terms and conditions of this Order and consents to and will not contest the Director's jurisdiction regarding this Order. However, Columbia Gas Transmission, LLC does not admit to any factual and legal determinations made by the Director and reserves all rights and defenses available regarding liability or responsibility in any proceedings regarding Columbia Gas Transmission, LLC other than proceedings, administrative or civil, to enforce this Order.
2. The Director reserves the right to take further action if compliance with the terms and conditions of this Order does not adequately address the violations noted herein and reserves all rights and defenses which he may have pursuant to any legal authority, as well as the right to raise, as a basis for supporting such legal authority or defenses, facts other than those contained in the Findings of Fact.
3. If any event occurs which causes delay in the achievement of the requirements of this Order, Columbia Gas Transmission, LLC shall have the burden of proving that the delay was caused by circumstances beyond its reasonable control which could not have been overcome by due diligence (i.e., force majeure). Force majeure shall not include delays caused or contributed to by the lack of sufficient funding. Within three (3) working days after Columbia Gas Transmission, LLC becomes aware of such a delay, notification shall be provided to the Director/Chief Inspector and Columbia Gas Transmission, LLC shall, within ten (10) working days of initial notification, submit a detailed written explanation of the anticipated length and cause of the delay, the measures taken and/or to be taken to prevent or minimize the delay, and a timetable by which Columbia Gas Transmission, LLC intends to implement these measures. If the Director agrees that the delay has been or will be caused by circumstances beyond the reasonable control of Columbia Gas Transmission, LLC (i.e., force majeure), the time for performance hereunder shall be extended for a period of time equal to the delay resulting from such circumstances. A force majeure amendment granted by the Director shall be considered a binding extension of this Order and of the requirements herein. The determination of the Director shall be final and not subject to appeal.
4. Compliance with the terms and conditions of this Order shall not in any way be construed as relieving Columbia Gas Transmission, LLC of the obligation to comply with any applicable law, permit, other order, or any other requirement otherwise applicable.

Violations of the terms and conditions of this Order may subject Columbia Gas Transmission, LLC to additional penalties and injunctive relief in accordance with the applicable law.

5. The provisions of this Order are severable and should a court or board of competent jurisdiction declare any provisions to be invalid or unenforceable, all other provisions shall remain in full force and effect.
6. This Order is binding on Columbia Gas Transmission, LLC, its successors and assigns.
7. This Order shall terminate upon Columbia Gas Transmission, LLC's notification of full compliance with the "Order for Compliance" and verification of this notification by WVDEP.



Troy Tally, Vice President
Columbia Gas Transmission, LLC

Date

Public Notice begin:

Date

Public Notice end:

Date

Katheryn Emery, P.E., Acting Director
Division of Water and Waste Management

Date



Water bar terminus BMP adjacent to 2275+00 allowing sediment laden water to bypass under the device.



Water bar terminus BMP adjacent to 2275+00 allowing sediment laden water to bypass under the device, resulting in CNA distinctly visible settleable solids in UNT Neds Run ($39^{\circ} 21.099'$ X $80^{\circ} 41.670'$).



CNA distinctly visible settleable solids in UNT Neds Run (39° 21.099' X 80° 41.670').



CNA distinctly visible settleable solids in UNT Neds Run (39° 21.099' X 80° 41.670').



Installed BMPs adjacent to ARDO002.8 that are not being properly operated or maintained and are allowing sediment laden water to bypass the devices.



Offsite sediment laden water that originates from site adjacent to ARDO002.8.



Ditch check along ARDO002.8 that is allowing a sediment laden water bypass.



Ditch check along ARDO002.8 that is allowing a sediment laden water bypass.



Concentrated flow being directed over fill slope adjacent to ARDO002.8 due to poorly maintained water bars.



Poorly maintained water bar adjacent to ARDO002.8 that is placing concentrated flow over a fill slope.



Concentrated flow being directed over fill slope due to poorly maintained water bars.



Poorly maintained water bar.



Piece of equipment that was leaking diesel fuel onto the ground.



Oily slick on stormwater downslope of the above pictured equipment.



Sediment and diesel laden water bypassing a perimeter control.



Sediment and diesel laden water traveling downslope to receiving stream.



CNA oily slick, distinctly visible settleable solids and odors in the vicinity of UNT Neds Run (39° 21.175 X 80° 41.705').



CNA oily slick, settleable solids, and odors in the vicinity of UNT Neds Run (39° 21.175 X 80° 41.705').



CNA oily slick, settleable solids, and odors in the vicinity of UNT Neds Run (39° 21.175 X 80° 41.705').



CNA oily slick, settleable solids, and odors in the vicinity of UNT Neds Run (39° 21.175 X 80° 41.705').



Stormwater bypass of perimeter control adjacent to 2260+00 due to poor maintenance.



Offsite sediment laden water that bypassed the above pictured BMP.



Improperly operated water bar terminus BMP adjacent to 2255+00.



Fill slope erosion near 2065+00. The area has been idle for a long period of time and lacks temporary stabilization.



BMP adjacent to SDOI 008. Offsite sediment deposits and CNA downslope of the BMP.



BMP adjacent to SDOI 008. Offsite sediment deposits and CNA downslope of the BMP.



BMP adjacent to SDOI 008. Offsite sediment deposits and CNA downslope of the BMP.



Offsite CNA deposits in UNT Riggins Run (SDOI006) (39°23.824' X 80° 41.061').



Offsite CNA deposits in UNT Riggins Run (SDOI006) (39°23.824' X 80° 41.061').



Improperly installed water bars and the associated fill slope erosion near SDOI008.



Improperly installed water bars and the associated fill slope erosion near SDOI008.



Erosion gullies upslope of SDOI008.



Erosion gullies upslope of SDOI008.



Sediment trail leading to the receiving stream as a result of the previously pictured improperly installed water bars and associated fill slope erosion near SDOI008.



CNA deposits in UNT McElroy Creek (SDOI008) (39° 24.006' X 80° 40.906') as a result of the previously pictured deficiencies.



Project area near 2019+00 showing a lack of perimeter silt fence as indicated in the approved SWPPP.



Sediment laden water leaving the site and CNA distinctly visible settleable solids in UNT McElroy Creek (SDOI202).



Project area near 2019+00 showing a lack of perimeter silt fence as indicated in the approved SWPPP.



Sediment laden water leaving the site and CNA distinctly visible settleable solids in UNT McElroy Creek (SDOI201).



CNA distinctly visible settleable solids and deposits in UNT McElroy Creek (SDOI 201 & SDOI202) (39° 24.456' X 80° 40.816').



CNA distinctly visible settleable solids and deposits in UNT McElroy Creek (SDOI 201 & SDOI202) (39° 24.456' X 80° 40.816').



CNA distinctly visible settleable solids and deposits in UNT McElroy Creek (SDOI 201 & SDOI202) (39° 24.456' X 80° 40.816').



CNA distinctly visible settleable solids and deposits in UNT McElroy Creek (SDOI 201 & SDOI202) (39° 24.456' X 80° 40.816').



Mud on CR 5 originating from ARDO-001.5.



Mud on CR 5 originating from ARDO-001.5.



Mud on CR 5 originating from ARDO-001.5.



ARDO-001.5 at the intersection of CR 5 showing the lack of a stabilized construction entrance.



Fill slope erosion as the result of an improperly constructed water bar in the Riggins Run watershed.



The farm pond.



Super silt fence adjacent to the farm pond.



Sediment directly below silt fence.



Sediment flow from silt fence.



Sediment collected inside silt fence.



Crossing at SJAG321.



The crossing at Station 6705+00.



Sediment collected in silt fence.



Build-up of sediment collected behind silt fence.



Sediment overtopping silt fence.



Sediment overtopping silt fence.



Silt fence that was installed in the stream after a rainfall event.



Sediment collected behind the in-stream silt fence.



Sediment deposits in stream leading to the farm pond below.



Sediment deposits in stream leading to the farm pond below.



Station 6705+00, showing slope without installed water bars.



Station 6705+00, showing bulging silt fence.



Evidence of a discharge of sediment laden water from silt fence above.



Crossing at Station 6705+00.



Sediment collected in fabric under timber mat bridge.



Sediment collected in fabric under timber mat bridge.



Sediment build-up in silt fence at Station 6705+00.



Sediment build-up in silt fence at Station 6705+00.



The crossing at Station 6705+00.



Silt fence in disrepair directly above crossing at Station 6705+00.



Silt fence in disrepair directly above crossing at Station 6705+00.



Rt 21 and construction entrance.



Road used to circumvent washing station.

MXP Spread 7_Jackson County_11-1-2018_WVR10872



Recently washed truck as it exits the site.



View of the "exit" road that passes through wash station.



AR-20 (ARDO-001.5) showing an unstable construction entrance that is causing track-out onto the public road.



AR-20 (ARDO-001.5) showing an unstable construction entrance that is causing track-out onto the public road.



AR-20 (ARDO-001.5) showing an unstable construction entrance that is causing track-out onto the public road.



Mud on CR 5 (Riggins Run Road) that originates from AR-20 (ARDO-001.5).



Mud on CR 5 (Riggins Run Road) that originates from AR-20 (ARDO-001.5).



Mud on CR 5 (Riggins Run Road) that originates from AR-20 (ARDO-001.5).



AR – 18 (ARDO002.7) showing an unstable construction entrance.



AR – 17 (ARDO002.8) showing an unstable construction entrance.



Sediment-laden water leaving the site through perimeter controls in need of maintenance.



Sediment leaving the project on nearby access road.



Unmaintained perimeter control and associated offsite sediment deposits in the Bluestone Creek watershed.



Unmaintained perimeter control and associated offsite sediment deposits in the Bluestone Creek watershed.



Unmaintained perimeter control and associated offsite sediment deposits in the Bluestone Creek watershed.



Unmaintained perimeter control in the Bluestone Creek watershed.



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG537).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG537).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG543).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG543).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG201).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOI205).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG0048).



Unmaintained equipment bridge BMP in the Bluestone Creek watershed (SDOG0055).



BMP in need of maintenance that caused offsite CNA deposits in UNT Sugar Run (SDOH008) (39°11.070' X 80°51.112').



Offsite CNA deposits in UNT Sugar Run (SDOH008) (39°11.070' X 80°51.112').



UNT Left Fork of Arnolds Creek (SDOG040) crossing showing a bridge in need of maintenance.



CNA distinctly visible settleable solids in UNT Left Fork of Arnolds Creek (SDOG040) (39°13.294' X 80°46.957').



CNA distinctly visible settleable solids in UNT Left Fork of Arnolds Creek (SDOG040) (39°13.294' X 80°46.957').



Water quality upstream of UNT Left Fork of Arnolds Creek (SDOG040) (39°13.294' X 80°46.957') crossing.



Equipment bridge BMP in need of maintenance at Taylor Drain (SDOG071) crossing.



Equipment bridge BMP in need of maintenance at Taylor Drain (SDOG071) crossing.



Offsite CNA in Taylor Drain (SDOG071) (39°11.469' X 80°50.183') that originate from site.



Offsite CNA in Taylor Drain (SDOG071) (39°11.469' X 80°50.183') that originate from site.



Improperly installed water bars in the Bluestone Creek watershed.



Improperly installed water bars in the Bluestone Creek watershed.



Improperly installed water bars adjacent to 2822+00.



Improperly installed water bars adjacent to 2822+00.



Water bar outlet that discharges concentrated flow over a fill slope adjacent to 2822+00.



Water bar outlet that discharges concentrated flow over a fill slope adjacent to 2822+00.



Slip and associated mud flow adjacent to 2822+00.



Slip and associated mud flow adjacent to 2822+00.



Slip and associated mud flow adjacent to 2822+00.



CNA deposits in UNT Bluestone Creek (SDOG0215) ($39^{\circ}14.754'$ X $80^{\circ}45.138'$) adjacent to 2822+00.



CNA deposits in UNT Bluestone Creek (SDOG0215) ($39^{\circ}14.754'$ X $80^{\circ}45.138'$) adjacent to 2822+00.



CNA deposits in UNT Bluestone Creek (SDOG0215) ($39^{\circ}14.754'$ X $80^{\circ}45.138'$) adjacent to 2822+00.



Improperly installed perimeter control adjacent to UNT Taylor Drain (SDOH012).



Improperly installed perimeter control adjacent to UNT Taylor Drain (SDOH012).



Improperly installed perimeter control equipment bridge tie-in adjacent to UNT Taylor Drain (SDOH012).



Improperly installed perimeter control equipment bridge tie-in adjacent to UNT Taylor Drain (SDOH012).



Offsite CNA deposits in UNT Taylor Drain (SDOH012) (39°11.386' X 80°50.309').



Offsite CNA deposits in UNT Taylor Drain (SDOH012) (39°11.386' X 80°50.309').



Improperly installed equipment bridge tie in adjacent to wetland UNT Bluestone (WDOG502) crossing.



Improperly installed equipment bridge tie in adjacent to wetland UNT Bluestone (WDOG502) crossing.



Offsite CNA deposits in wetland UNT Bluestone Creek (WDOG502) (39°14.422' X 80°45.863').



Offsite CNA deposits in wetland UNT Bluestone Creek (WDOG502) (39°14.422' X 80°45.863').



Existing access (ARDO9.3) that requires construction activity with no BMPs in place.



Existing access (ARDO9.3) that requires construction activity with no BMPs in place.



ARDO008.2 showing improperly installed controls and failure to follow SWPPP, resulting in CNA.



ARDO008.2 showing improperly installed controls and failure to follow SWPPP, resulting in CNA.



CNA distinctly visible settleable solids and deposits in Georgescamp Run (39°14.817' X 80°44.531').



ARDO008.2 showing improperly installed controls that caused CNA.



CNA distinctly visible settleable solids and deposits in Georgescamp Run (39°14.817' X 80°44.531').



Water quality upstream of the ARDO08.2 Georgescamp Run crossing.



ARDO08.5 showing a lack of upslope ditches to collect run-on stormwater as indicated in the approved SWPPP.



ARDO08.5 showing a lack of upslope ditches to collect run-on stormwater as indicated in the approved SWPPP.



ARDO08.5 showing concentration of mud in a low area adjacent to the receiving stream due to a lack of upslope ditching to handle run-on stormwater and poor maintenance.



ARDO08.5 showing concentration of mud in a low area adjacent to the receiving stream due to a lack of upslope ditching to handle run-on stormwater and poor maintenance.



CNA distinctly visible settleable solids and deposits in UNT Georgescamp Run (39°15.200' X 80°44.046').



CNA distinctly visible settleable solids and deposits in UNT Georgescamp Run (39°15.200' X 80°44.046').



Unmaintained perimeter control and associated offsite sediment deposits on ARDO008.2.



Unmaintained perimeter control and associated offsite sediment deposits on ARDO008.2.



Unmaintained BMP and associated offsite sediment deposits on ARDO008.2.



Unmaintained BMP and associated offsite sediment deposits on ARDO008.2.



Unmaintained perimeter control and associated offsite sediment deposits on ARDO009.1.



Unmaintained perimeter control and associated offsite sediment deposits on ARDO009.1.



Unmaintained perimeter control and associated offsite sediment deposits near 2815+00.



Unmaintained perimeter control and associated offsite sediment deposits near 2815+00.



CNA deposits in UNT Bluestone Creek (39° 14.761' X 80° 45.019') near 2815+00 due to poor maintenance of perimeter control.



CNA deposits in UNT Bluestone Creek (39° 14.761' X 80° 45.019') near 2815+00 due to poor maintenance of perimeter control.



Unmaintained BMP and associated offsite sediment deposits on ARDO008.2.



BMP in need of maintenance.

Unmaintained BMP and associated offsite sediment deposits on ARDO008.2.



CNA deposits in UNT Georgescamp Run (39° 14.614' X 80° 44.951') on ARDO008.2 due to poor maintenance of installed BMP.



CNA deposits in UNT Georgescamp Run (39° 14.614' X 80° 44.951') on ARDO008.2 due to poor maintenance of installed BMP.



Improperly installed perimeter control on ARDO008.2 allowing sediment laden water to bypass under the installed BMP.



Improperly installed perimeter control on ARDO008.2 allowing sediment laden water to bypass under the installed BMP.



CNA distinctly visible settleable solids in Georgescamp Run (39° 15.092' X 80° 43.970') on ARDO008.2 due to a bypass from an improperly installed perimeter control.



CNA distinctly visible settleable solids in Georgescamp Run (39° 15.092' X 80° 43.970') on ARDO008.2 due to a bypass from an improperly installed perimeter control.



Overview of slip near 2822+00.



Mud flow and newly installed perimeter control on offsite slip near 2822+00.



Improperly installed perimeter control allowing sediment laden water to bypass under the device on the offsite slip near 2822+00.



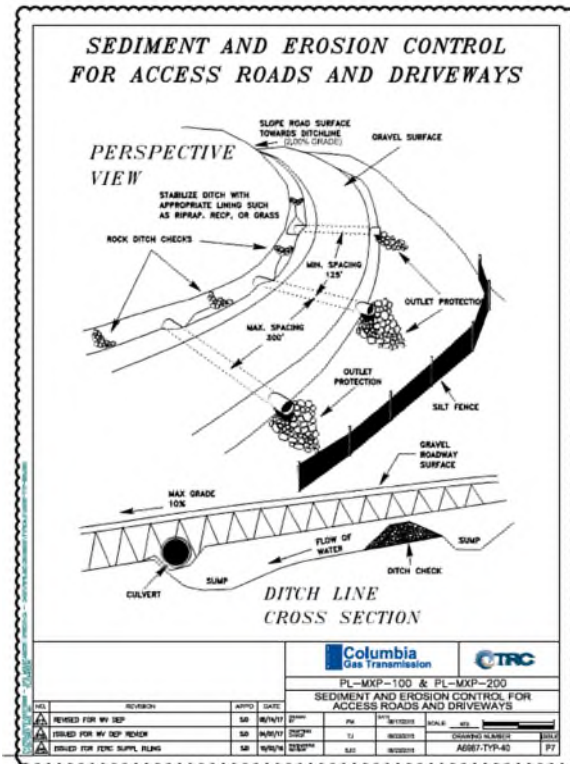
Flow of sediment laden water from the site to the receiving stream.



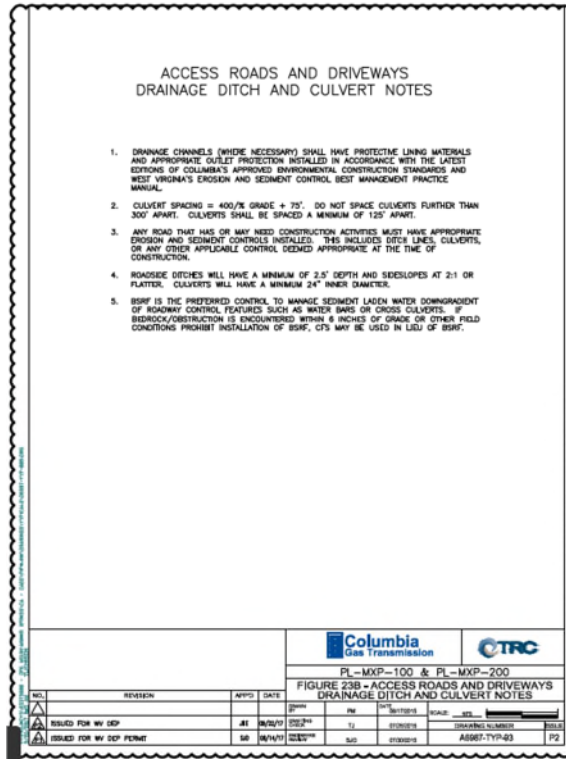
Flow of sediment laden water from the site to the receiving stream.



CNA distinctly visible settleable solids in UNT Bluestone Creek (SDOG215) ($39^{\circ}14.770'$ X $80^{\circ}45.130'$) as a result of the above pictured deficiency.



Access road detail showing the associated BMPs that are indicated in the approved SWPPP.



Access road detail showing the associated BMPs that are indicated in the approved SWPPP.



ARDO009.3 showing the lack of a graveled surface and the lack of perimeter controls, even though the road requires construction activity.



ARDO008.4 showing the lack of a graveled surface and the lack of perimeter controls, even though the road requires construction activity.



ARDO008.4 showing the lack of a graveled surface and the lack of perimeter controls, even though the road shows evidence of recent construction activity.



ARDO008.4 showing the lack of a graveled surface and the lack of perimeter controls, even though the road shows evidence of recent construction activity.



ARDO008.2 showing stormwater flow traveling downslope in ruts due to the lack of drainage as indicated in the approved SWPPP.



ARDO008.2 showing stormwater flow traveling downslope in ruts to the adjacent receiving stream due to the lack of drainage as indicated in the approved SWPPP.



BMPS adjacent to Georgescamp Run that are overwhelmed due to the lack of drainage on the access road, causing sediment laden stormwater to bypass the devices.



BMPS adjacent to Georgescamp Run that are overwhelmed due to the lack of drainage on the access road, causing sediment laden stormwater to bypass the devices.



BMPS adjacent to Georgescamp Run that are overwhelmed due to the lack of drainage on the access road, causing sediment laden stormwater to bypass the devices.



CNA distinctly visible settleable solids in Georgescamp Run (39° 14.817' X 80° 44.539') as a result of the above pictured deficiency.



Run-on groundwater on ARDO008.5 that is running into the road surface contrary to the approved SWPPP.



Run-on groundwater on ARDO008.5 that is running into the road surface contrary to the approved SWPPP.



Condition of ARDO008.5 adjacent to the receiving stream.



ARDO008.5 showing the lack of a graveled surface and the lack of adequate drainage.



Perimeter control that has been overwhelmed and is causing CNA deposits and a distinctly visible plume in UNT Georgescamp Run (39°15.182' X 80° 44.033').



Second perimeter control that has been overwhelmed and is causing CNA deposits and distinctly visible plume in UNT Georgescamp Run (39°15.182' X 80° 44.033').



Water quality
downstream of
ARDO008.5.

11/18/2018

Third installed BMP failed and caused CNA deposits in UNT Georgescamp Run (39°15.182' X 80° 44.033').



11/18/2018

Stream quality upstream of ARDO008.5 showing turbidity that originates from documented dewatering of the pipe trench. Water quality is further degraded downstream of ARDO008.5 due to the above pictured deficiencies.



Water quality downstream of ARDO008.5



Visible plume in UNT Georgescamp Run ($39^{\circ}15.182'$ X $80^{\circ}44.033'$) adjacent to ARDO008.5



ARDO008.2 showing stormwater flowing downslope in ruts on the road surface due to the lack of adequate drainage.



Culvert inlet on ARDO008.2 where the above pictured concentrated flow is directed.



Outlet of the above pictured culvert outlet on ARDO008.2 showing sediment laden water bypassing the installed BMP that is in need of maintenance.



CNA distinctly visible settleable solids and deposits in UNT Georgescamp Run ($39^{\circ}14.764'$ X $80^{\circ}44.733'$) as a result of the above pictured deficiency.



Visible plume at the confluence of UNT Georgescamp Run and Georgescamp Run.



CNA deposits in UNT Georgescamp Run (39°14.764' X 80° 44.733') that originate from site.



ARDO009.3 showing stormwater in an upslope ditch that is overflowing onto the road surface due to the lack of adequate drainage.



ARDO009.3 showing stormwater in an upslope ditch that is overflowing onto the road surface due to the lack of adequate drainage.



UNT Bluestone Creek equipment crossing on ARDO009.3 showing overwhelmed BMPs due to the lack of drainage indicated on the approved SWPPP.



Equipment bridge BMP on the above pictured crossing showing the area of bypass.



CNA distinctly visible settleable solids and deposits in UNT Bluestone Creek (39° 14.425' X 80° 45.817') as a result of the previously pictured deficiency.



CNA distinctly visible settleable solids and deposits in UNT Bluestone Creek (39° 14.425' X 80° 45.817') as a result of the previously pictured deficiency.



Visible plume at the confluence of UNT Bluestone Creek and Bluestone Creek.



CNA distinctly visible settleable solids and deposits in UNT Bluestone Creek (39° 14.425' X 80° 45.817').



Dewatering bag associated with pipe trench dewatering adjacent to the SDOG048 stream crossing.



Stream of sediment laden water downslope of the above pictured dewatering bag that is flowing to the adjacent receiving stream.



Water quality of UNT Georgescamp Run upstream of the dewatering operation as well as ARDO008.5.



CNA distinctly visible settleable solids in UNT Georgescamp Run (SDOG048) (39° 15.261' X 80° 44.096) as a result of the above pictured dewatering.



Visible plume in UNT Georgescamp Run (SDOG048) ($39^{\circ} 15.261'$ X $80^{\circ} 44.096'$) at outflow of the installed pump-around.



Visible plume in UNT Georgescamp Run (SDOG048) ($39^{\circ} 15.261'$ X $80^{\circ} 44.096'$) at outflow of the installed pump-around.



Dewatering bag associated with pipe trench dewatering adjacent to the SDOG055 stream crossing.



Dewatering bag associated with pipe trench dewatering adjacent to the SDOG055 stream crossing.



Stream of sediment laden water downslope of the above pictured dewatering bag that is flowing to the adjacent receiving stream.



Visible plume in Georgescamp Run (SDOG055) (39° 15.467' X 80° 43.492') originating from the above pictured dewatering operation.



Dewatering bag associated with pipe trench dewatering adjacent to the SDOG536 stream crossing.



Stream of sediment laden water downslope of the above pictured dewatering bag that is flowing to the adjacent receiving stream.



Stream of sediment laden water downslope of the above pictured dewatering bag that is flowing to the adjacent receiving stream.



Visible plume in Bluestone Creek (SDOG536) ($39^{\circ} 14.749'$ X $80^{\circ} 45.488'$) originating from the above pictured dewatering operation.



Construction entrance at the WV 23 crossing showing the lack of a stabilized entrance.



Construction entrance at the WV 23 crossing showing the lack of a stabilized entrance and the associated track out onto the public road.



Construction entrance at the WV 23 crossing showing the lack of a stabilized entrance and the associated track out onto the public road.



Construction entrance at the WV 23 crossing showing the lack of a stabilized entrance and the associated track out onto the public road.



Unmaintained perimeter control on ARDO009.1.



Unmaintained perimeter control on ARDO009.1.



Improperly operated BMP on ARDO008.2 that allows sediment laden water to bypass under the device.



Improperly operated BMP on ARDO008.2 that allows sediment laden water to bypass under the device.



CNA in Georgescamp Run (39° 15.093' X 80° 43.982') that originates from the previously pictured improperly operated BMP on ARDO008.2.



CNA in Georgescamp Run (39° 15.093' X 80° 43.982') that originates from the previously pictured improperly operated BMP on ARDO008.2.



Improperly operated BMP on ARDO008.2 that is allowing sediment laden water to bypass the device.



Improperly operated BMP on ARDO008.2 that is allowing sediment laden water to bypass the device.



Trail of sediment laden water leading to the receiving stream from the previously pictured BMP on ARDO008.2.



CNA distinctly visible settleable solids in Georgescamp Run (39° 14.986' X 80° 44.174') that originated from site on ARDO008.2.



ARDO009.3 showing an unstable road surface that requires construction activity with no BMPs in place as indicated in the approved SWPPP.



ARDO009.3 showing an unstable road surface that requires construction activity with no BMPs in place as indicated in the approved SWPPP.



ARDO009.3 showing an unstable road surface that requires construction activity with no BMPs in place as indicated in the approved SWPPP.



Trail of sediment laden water entering a culvert head just downslope of the area in the picture above on ARDO009.3.



Culvert outlet showing offsite sediment deposits downslope of the previously pictured area on ARDO009.3.



CNA deposits in UNT Bluestone Creek (39° 13.496' X 80° 45.815') that originate from the previously pictured area on ARDO009.3 that is unstable and lacks BMPs.



CNA deposits in UNT Bluestone Creek (39° 13.496' X 80° 45.815') that originate from the previously pictured area on ARDO009.3 that is unstable and lacks BMPs.



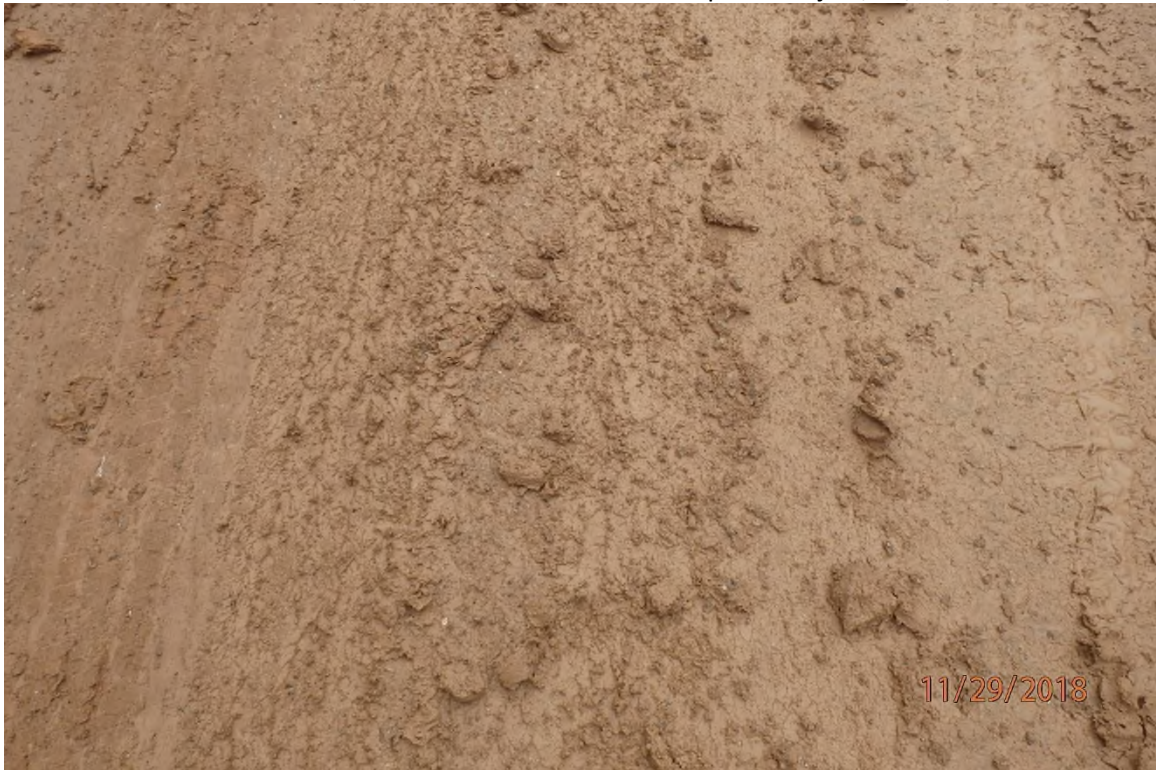
CNA deposits in UNT Bluestone Creek (39° 13.496' X 80° 45.815') that originate from the previously pictured area on ARDO009.3 that is unstable and lacks BMPs.



ARDO002.41 (Ralphs Run Access) showing the lack of a stable construction entrance and track-out onto the public road (paved surface).



ARDO002.41 (Ralphs Run Access) showing track-out onto the public road (paved surface).



ARDO002.41 (Ralphs Run Access) showing track-out onto the public road (paved surface).



ARDO002.41 (Ralphs Run Access) showing track-out onto the public road (paved surface).



Equipment bridge BMP on ARDO007.6 in need of maintenance showing point of sediment laden water bypass.



Offsite sediment deposits and CNA in UNT Douglascamp Run as a result of sediment laden water bypassing the equipment bridge BMP due to poor maintenance.



CNA distinctly visible settleable solids and deposits in UNT Douglascamp Run (39° 16.284' X 80° 42.421') as a result of the previously pictured unmaintained equipment bridge BMP.



CNA distinctly visible settleable solids and deposits in UNT Douglascamp Run (39° 16.284' X 80° 42.421') as a result of the previously pictured unmaintained equipment bridge BMP.



Overview of disturbance adjacent to 2611+00.



Project area adjacent to 2611+00 showing gaps in the installed perimeter control that allow sediment laden water to leave the site without going through an appropriate device.



Project area adjacent to 2611+00 showing gaps in the installed perimeter control that allow sediment laden water to leave the site without going through an appropriate device.



Offsite sediment laden water trail that originates from site near 2611+00 that is flowing toward the receiving stream.



Offsite CNA distinctly visible settleable solids in UNT Meathouse Fork (39° 16.512' X 80° 43.125') downslope of the project adjacent to 2611+00.



Offsite CNA distinctly visible settleable solids in UNT Meathouse Fork (39° 16.512' X 80° 43.125') downslope of the project adjacent to 2611+00.



ARDO007.6 showing the lack of a graveled surface and the lack of BMPs.



ARDO007.6 showing the lack of a graveled surface and the lack of BMPs.



ARDO008/WV 18 crossing showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



ARDO008/WV 18 crossing showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



ARDO008/WV 18 crossing showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



ARDO008/WV 18 crossing showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



Work being conducted to mitigate the slip associated with spill report number 09-83236 (A).



Sheet piling installed upslope of the installed pipe to protect pipe integrity on the slip associated with spill report number 09-83236 (A).



Lower portion of the slip associated with spill report number 09-83236 (A) showing remnants of recently installed silt fence and the lack of installed sheet piling. The pictured mud flow downslope of the slip is in the ephemeral UNT of Meathouse Fork.



CNA deposits in ephemeral UNT Meathouse Fork (39° 16.354' X 80° 43.179') as a result of the slip associated with spill report number 09-83236 (A).



CNA deposits in intermittent UNT Meathouse Fork (39° 16.402' X 80° 43.295') as a result of the slip associated with spill report number 09-83236 (A).



CNA deposits in intermittent UNT Meathouse Fork as a result of the slip associated with spill report number 09-83236 (A).



MXP ROW crossing with Shamblin Road. Facing North.



MXP ROW entrance facing South on Shamblin Road.



Facing West on Wolfe Creek Road.



Facing East on Wolfe Creek Road



Facing South at MXP ROW entrance at Station Number 6880+41.



Facing North at MXP ROW entrance at station number 6880+41.



ARDO002.9 showing improperly installed perimeter control that allows sediment laden water to bypass under the device.



ARDO002.9 showing improperly installed perimeter control that allows sediment laden water to bypass under the device.



Sediment laden water that originates from the site (ARDO002.9) in DOH conveyance.



Sediment laden water that originates from the site (ARDO002.9) in DOH conveyance.



CNA distinctly visible settleable solids in UNT Flint Run (39° 20.930' X 80° 42.406').



Visible plume at the confluence of UNT Flint Run and Flint Run.



ARDO008/WV18 crossing accesses showing the lack of a stable construction entrance and the associated track out/slick film of mud that originates from site.



Unstable construction entrance at the WV 18 crossing and the associated track out/slick film of mud that originates from site.



ARDO008 / WV18 crossing accesses showing the lack of a stable construction entrance and the associated track out/slick film of mud that originates from site.



WV 18 showing track out and slick film of mud on the public roadway.



Tracking occurring from contractor yard onto access road that leads to Route 62.



Tracking occurring onto access road, facing North towards Route 62.



Facing Route 62. Tracking visible in both directions (East and West) along Route 62.



Route 62 facing East.



Route 62 facing West toward the MXP ROW crossing with Route 62.



The MXP ROW crossing with Route 62, facing East toward contractor yard.



Area where slip was beginning to occur above stream SJAG 316 on 12/04/18.



Stream SJAG 316 facing upstream where slips are occurring and impacting stream.



Area where slipped material was removed from Stream SJAG316.



Area where erosion control blankets were added at edge of stream bank.



Area upslope of Stream SJAG316 where slips have reoccurred. This area has slipped approximately 2 vertical feet.



Section of ROW above Shamblin Run where topsoil pile had slipped, and material was deposited into waterbar.



Waterbar terminus leading to perimeter control. Slope eroding above control.



Waterbar terminus at station #5359+00 facing upslope



Perimeter control at station #5359+00



SLW flowing under controls at station number 5359+00 and past LOD



Facing South towards waterbar outlet at station 5376+00



Waterbar outlet at station 5376+00



Waterbar outlet near station 5376+00



Waterbar outlet near station 5376+00.



Waterbar outlet near station 5376+00



Waterbar outlet near station 5376+00



Waterbar near station 5376+00 facing upslope



Above mentioned waterbar terminus at top of slope near station #5376+00



Waterbar outlet at perimeter control. Ephemeral stream impacted with SLW past LOD near station 5376+00



Erosion occurring on slope leading to perimeter control near station 5388+00



Perimeter control near station 5388+00



Sediment deposits in conveyance past perimeter controls near station 5388+00



Facing South at station 5388+00 downslope at perimeter controls and top of slope



Facing downslope at station 5388+00 at perimeter controls from top of slope



Facing downslope at station 5388+00 at perimeter controls from top of slope



Facing downslope at station 5388+00 at perimeter controls from top of slope. SLW flowing past controls and into ephemeral stream



Waterbar outlets near station #5398+00 facing South



Waterbar Outlet #1 near station #5398+00 facing upslope



Waterbar Outlet #2 near station #5398+00 facing upslope. Arrow shows undermined CFS.



Runoff from waterbar outlet running downslope towards log pile off LOD



Waterbar outlet downslope of log pile near station 5400+00.



Off site sediment deposits present and SLW flowing past controls above log pile near station 5400+00



SLW present in ephemeral downslope of log pile near station #5405+07



SLW present in ephemeral (SWIH-003) downslope of log pile near station #5405+07



Facing North upslope at Munchausen Road crossing station #5407+07



Sediment deposits present along Munchausen Road ditch station #5405+07. Erosion occurring above controls on ROW.



Munchausen Road crossing at station #5407+07 facing East



Munchausen Road crossing at station #5407+07 facing South at Stream SWIH-001. Arrow depicts waterbar being eroded due to concentrated runoff upslope



Munchausen Road crossing at station #5407+07 facing south. Erosion present on slopes due to concentrated flow



Stutler Road Crossing at station 5453+84 facing south at stream SROC-002



Stutler Road Crossing at station 5453+84 facing south at stream SROC-002



SLW flowing under controls at station #5453+84



Near station 5453+84 facing upslope at controls



SLW entering stream SROC-002. SROC-002 has visible settable solids present at time of inspection



Stream SROC-030 facing upstream



Stream SROC-030 facing downstream



Standing at stream SROC-030 facing South at Hwy 14 crossing



Work space below MXP ROW facing Northeast



North Side stream SROC-030 facing South at controls



SLW leaving site upslope of Stream SROC-030



ARDO002.8 - lack of culverts to carry stormwater beneath the road surface.



Water bar outlet on ARDO002.8 that lacks a water bar terminus BMP.



Water bar on right of way that discharges into upslope ditch of ARDO002.8



Installed ditch checks and water bars on ARDO002.8 that are overwhelmed by stormwater flow resulting from the lack of installed cross drains/culverts as indicated in the approved SWPPP.



Project area adjacent to 2256+00 showing improperly installed water bars and the associated fill slope erosion.



Project area adjacent to 2256+00 showing improperly installed water bars and the associated fill slope erosion.



Installed perimeter control adjacent to 2256+00 that has been overwhelmed due to improperly installed water bars.



Offsite sediment deposits downslope of the above pictured BMP.



Improperly installed perimeter control adjacent to 2260+00 that allows sediment laden water to bypass the device.



Improperly installed perimeter control adjacent to 2260+00 that allows sediment laden water to bypass the device.



Offsite sediment trail leading to the receiving stream from the previously pictured improperly installed perimeter control.



CNA deposits in UNT Neds Run (SDOG353) ($39^{\circ} 21.203'$ X $80^{\circ} 41.731'$) that originate from site.



Perimeter control in need of maintenance.



Water bar terminus BMP in need of maintenance.



Perimeter control in need of maintenance.



Project area showing the need for maintenance of temporary stabilization.



Project area showing the need for maintenance of temporary stabilization.



Project area showing the need for maintenance of temporary stabilization.



Seep causing gully erosion on slope near station #6781+00, flowing into waterbar.



Waterbar outlet with slope drain terminating into control near station #6781+00 and above Stream SJAD-008



Controls above Stream SJAD-008 near station #6655+00 (per SWPPP). Arrow depicts where erosion is occurring above controls on slope.



Waterbar above SJAD-009 facing upslope



Waterbar outlet above stream SJAD-009. Silt fence not tied into each other.



Waterbar outlet above SJAD stream complex at station #6770+75. Silt fence was undermined, and erosion was occurring on downslope side of the control and on the side of the control due to run-off flowing around it.



Erosion on slope above perimeter control at station #6766+60. Silt fence had multiple holes.



Silt fence at station #6766+60 with holes.



Silt fence with multiple holes near station 6766+60



Ripped silt fence on downslope perimeter near station #6766+60



Topsoil pile eroding due to seep, entering waterbar, and causing erosion at station #6760+00



Waterbar terminus at station #6752+00. Evidence of concentrated flow due to control being undermined and erosion occurring between devices.



Waterbar terminus at station #6753+94. Evidence of concentrated flow due to erosion occurring along the slope.



Waterbar outlet at station #6753+94. Arrow depicts where filter sock is undermined with small amount of deposits past control.



Run-on from adjacent field flowing across ROW and creating rill erosion near station#6742+60.



Run-on from adjacent field flowing across ROW and creating rill/gully erosion on slope near station #6742+60.



Run-on from adjacent field flowing across ROW, creating rill/gully erosion on slope near station #6742+60 and sediment being deposited against perimeter control.



Run-on from adjacent field flowing across ROW, creating rill/gully erosion on slope near station #6742+60 and sediment being deposited against perimeter control.



Run-on from adjacent field flowing across ROW, creating rill/gully erosion on slope near station #6742+60 and sediment being deposited against perimeter control.



Near station #6742+60. Sediment being deposited against perimeter control and evidence of sediment being deposited past control.



Near station #6742+60. Sediment being deposited past perimeter control and present in stream SJAA-040



Near station #6620+00 (per SWPPP). Seep intersecting ROW and causing erosion.



Near station #6620+00 (per SWPPP). Seep intersecting ROW and causing erosion on slope.



Facing downslope along perimeter control where sediment is backing up against controls due to erosion occurring on slope near station #6620+00 (per SWPPP).



Facing NE toward multiple stream crossings including SJAG-352, 359, and 351 near station #6732+60



Waterbar at station #6730+05.



Waterbar terminus at station #6730+05. Erosion occurring above terminus.



Waterbar terminus at station #6730+05. Compost filter sock undermined and evidence of sediment deposits past LOD.



Seep near waterbar causing erosion in waterbar.



Waterbar terminus with gully erosion present leading toward perimeter controls near station #6727+53



Waterbar terminus with gully erosion present leading toward perimeter controls near station #6727+53



Waterbar terminus with gully erosion present leading toward perimeter controls near station #6727+53



Perimeter controls near station #6727+53. Sediment deposits present and water flowing into culvert depicted by arrow.



Saturated section of ROW near station #6720+60 leading to erosion downslope of travel lane.



Slope near station #6720+60 facing downslope. Erosion occurring from run-on flowing across ROW.



Saturated section of ROW impacting travel lane. Erosion and slips occurring downslope of station #6702+30. Slope drain installed at red arrow.



Downslope of station #6702+30. Slope drain outlet terminating into perimeter controls. Culvert installed under additional workspace. No controls installed in this area.



Downslope of station #6702+30. Culvert installed under additional workspace. No controls installed in this area.



Section of ROW between Ripley regulator station and Rt. 21 with multiple slips on ROW.



Section of ROW between Ripley regulator station and Rt. 21 with multiple slips on ROW



Section of ROW between Ripley regulator station and Rt. 21 with multiple slips on ROW



Section of ROW between Ripley regulator station and Rt. 21 with multiple slips on ROW.



SJAG-346 facing downslope at station #6702+30



SJAG-346 facing upslope at station #6702+30. Sediment present in stream.



Waterbar terminus with erosion on slope near station #5148+00 facing downslope towards perimeter.



Perimeter controls being overwhelmed with sediment downslope of waterbar terminus near station #5148+00. Sediment deposits were present past controls and LOD.



Perimeter controls being overwhelmed with sediment near station #5148+00.



Erosion on slope near station #5148+00 leading to waterbar outlet over slope.



Waterbar outlet near station #5148+00. Erosion occurring on slope around geo mat and perimeter controls being overwhelmed with sediment.



Fill slope eroded above stream SWIF-057. Sediment deposits overwhelming controls and being deposited past LOD near station #5163+50.



Sediment overwhelming controls and being deposited past LOD near station #5163+50



ROW facing South above Stream SWIF-057 near station #5163+50. Arrow depicts additional slipped area of slope above stream.



Above stream SWIF-057 near station #5163+50.



Slip on slope above stream SWIF-057 near station #5163+50



Waterbar terminus above stream SWIF-057 near station #5163+50



Waterbar terminus above stream SWIF-057 near station #5163+50. Sediment overwhelming controls and being deposited past LOD.



Station #5163+50 facing South at section of Row that slipped into Stream SWIF-057



Station #5163+50 facing downslope toward material that slipped into Stream SWIF-057



Facing upslope at section of ROW that slipped into stream SWIF-057



Erosion on fillslope at station #5162+60. Sediment overwhelmed perimeter controls and was deposited past LOD.



Erosion on fill slope with sediment being deposited against perimeter controls near station #5162+60



Slip at station #5168+80 facing South. Sediment deposited past LOD



Slip at station #5171+34 facing South. Sediment deposited past LOD



Slip at station #5171+34 facing South. Sediment deposited past LOD



Section of ROW with multiple slips near station #5180+43.



Section of adjacent land that slipped into ROW and within LOD near station #5180+43



Downslope of controls near station #5180+43. Erosion occurring between and around controls leading to perimeter controls being overwhelmed with sediment.



Standing in front of downslope controls facing slips. Arrow depicts slips occurring above and below where the pipeline is located.



Downslope of controls near station #5180+43. Erosion occurring between and around controls leading to perimeter controls being overwhelmed with sediment.



Downslope of controls near station #5180+43. Erosion occurring between and around controls leading to perimeter controls being overwhelmed with sediment.



Waterbar near station #5180+43. Erosion occurring in the waterbar.



Waterbar terminus near station #5180+43. CFS is being undercut and erosion is occurring downslope of the control along the perimeter.



Downslope of waterbar near station #5180+43. Erosion occurring along perimeter.



Near station #6781+55 facing South at low spot in ROW where water was accumulating. A pipe slope drain had been installed in this area. However, erosion was occurring on the slope below where timber mats had been installed.



Pipe slope drain outlet near station #6781+55.



Waterbar near station #6781+55. Ponding present in Waterbar.



Waterbar terminating on fill slope. Erosion present on fill slope with sediment being deposited behind perimeter controls.



Area where past slip had occurred near station #6795+40. Arrow depicts stain lines on trees from slip. Slope had sediment being deposited behind controls.



Waterbar with ponding present. Sediment from topsoil pile slipping into waterbar near station #6795+55.



Waterbar outlet near station #6795+40. Waterbar terminating on fill slope causing erosion on slope.



Slip upslope of MXP ROW at station #6792+40 slipping into ROW.



Downslope of slip occurring above ROW at station #6792+40. Scouring of temporary stabilization occurring.



Downslope of slip occurring above ROW at station #6792+40. Scouring of temporary stabilization occurring.



Slip that was reported at station #6810+00.



Waterbar near station #6810+00. Erosion present in waterbar and slope at terminus.



Waterbar near station #6810+00. Erosion present in waterbar and slope at terminus.



Facing towards SJAG 316 and the Shamblin Run Road crossing where multiple slips have occurred on ROW.



Waterbar terminating onto fill slope above stream SJAG 316. Erosion present in waterbar.



Waterbar terminating onto slope. Downslope of terminus facing controls along perimeter above stream SJAG-316.



Waterbar above stream SJAG-316 terminating into topsoil pile.



Waterbar above stream SJAG-316 terminating into topsoil pile. Erosion occurring below waterbar on ROW due to concentrated flow overtopping the waterbar at the terminus and running downslope along topsoil pile.



Erosion occurring on ROW between the waterbars above stream SJAG-316. These waterbars were terminating into the topsoil pile and not being diverted off the ROW.



Stream SJAG-316 crossing where multiple slips have been reported.



Water bar outlet with fill slope erosion adjacent to 2268+00.



Water bar outlet with fill slope erosion adjacent to 2265+00.



Improperly installed water bar with varying angles that is installed with a height less than 16" adjacent to 2226+50.



Erosion gully downslope of the above pictured water bar adjacent to 2226+50.



Water bar with varying angles adjacent to 2225+00. A portion of the water bar is installed at an angle greater than 12%.



Water bar adjacent to 2225+00 installed at an angle greater than 12%.



AR -17 showing the need for maintenance to the stabilized road surface and the upslope ditch.



AR - 17 showing the need for maintenance to the ditch check upslope of the interceptor culvert.



Project area adjacent to 2229+00 showing the need for perimeter controls where the approved SWPPP does not indicate the need.



Overview of slip adjacent to 2227+50.



Offsite sediment downslope of the previously pictured slip.



Offsite sediment deposits in SDOG243 (UNT Brush Run).



Disturbed areas of the project that are in need of reseeding.



Unmaintained BMP on ARDO016.



Unmaintained BMP in the Sugar Run watershed.



Unmaintained BMP in the Sugar Run watershed and the associated fill slope erosion.



Unmaintained BMP in the UNT S. Fork of Hughes River watershed.



Unmaintained water bars in the Taylor Drain watershed and the associated fill slope erosion.



Unmaintained BMP in the Jims Run watershed.



Unmaintained water bars in the Georgescamp Run watershed that have led to the exposure of the installed pipe.



Unmaintained BMP in the Georgescamp Run watershed.



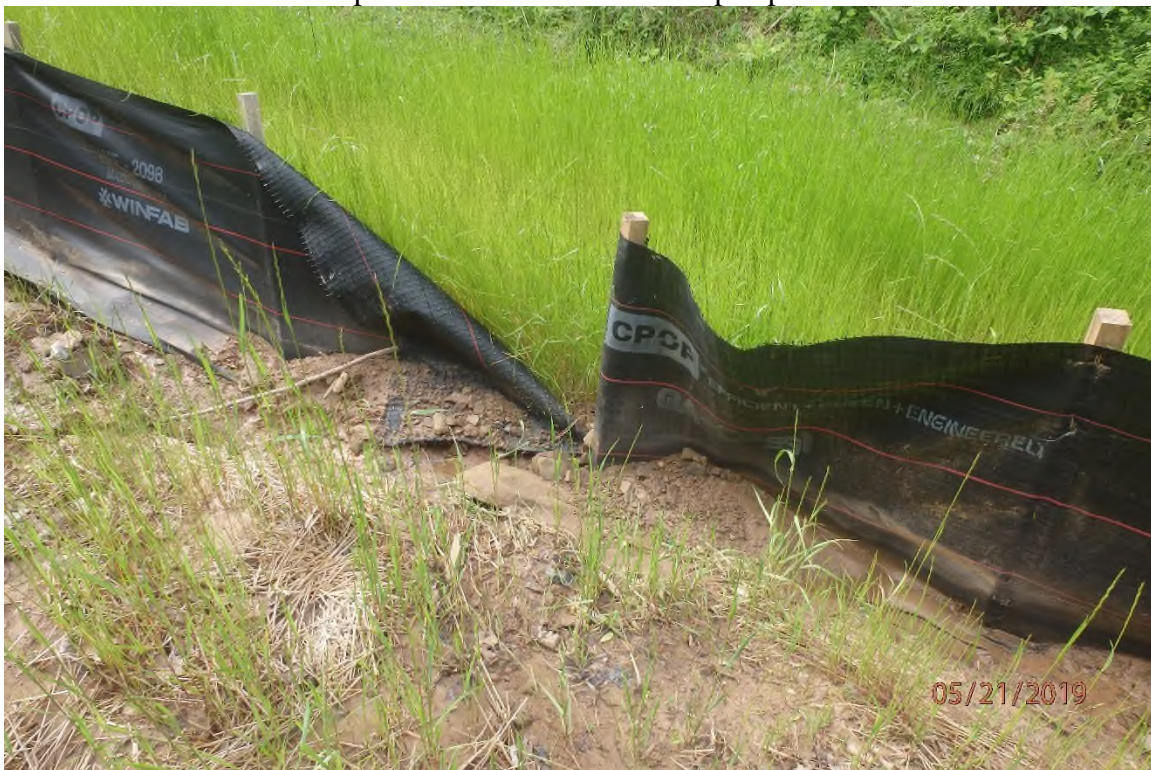
Unmaintained water bars in the UNT Sugar Run watershed.



Unmaintained water bars in the UNT Sugar Run watershed.



Perimeter control adjacent to UNT Sugar Run that is inundated with sediment as a result of the previously pictured water bar failures upslope.



Improperly merged silt fence adjacent to UNT Sugar Run.



Unmaintained BMP in the UNT Sugar Run watershed.



Unmaintained BMP in the UNT Sugar Run watershed.



Unmaintained BMP in the UNT Sugar Run watershed and the sediment trail that leads to the receiving stream.



Offsite CNA deposits in UNT Sugar Run (39° 11.075' X 80° 51.108') as a result of the previously pictured deficiencies.



Unmaintained BMP in the Tylor Drain watershed.



Unmaintained BMP in the Tylor Drain watershed and the sediment trail that leads to the receiving stream.



Sediment trail that leads to the receiving stream from the previously pictured unmaintained BMP in the Taylor Drain watershed.



Offsite CNA deposits in Taylor Drain (39° 11.446' X 80° 50.167') that originate from site.



Unmaintained BMP in the UNT S. Fork of the Hughes River watershed.



Unmaintained BMP in the UNT S. Fork of the Hughes River watershed.



Offsite sediment trail leading to UNT S. Fork of Hughes River.



Offsite CNA deposits in UNT S. Fork of Hughes River (39° 11.596' X 80° 49.384') that originate from site.



Unmaintained timber mat equipment BMP at the Sugar Run crossing (SDOH009).



Unmaintained timber mat equipment BMP at the Sugar Run crossing (SDOH009).



Unmaintained timber mat equipment BMP at the UNT Bluestone Creek crossing (SDOG539).



Unmaintained timber mat equipment BMP at the UNT Bluestone Creek crossing (SDOG539).



Unmaintained timber mat equipment BMP at the Taylor Drain crossing (SDON837).



Unmaintained timber mat equipment BMP at the Taylor Drain crossing (SDON837).



Unmaintained BMP in the UNT Trap Run watershed.



Offsite CNA deposits in UNT Trap Run (39° 11.375' X 80° 49.679') that originate from site.



Unmaintained BMP in the UNT Trap Run watershed.



Unmaintained BMP in the UNT Trap Run watershed.



Offsite CNA deposits in UNT Trap Run ($39^{\circ} 11.342'$ X $80^{\circ} 49.611'$) that originate from site.



Offsite CNA deposits in UNT Trap Run ($39^{\circ} 11.342'$ X $80^{\circ} 49.611'$) that originate from site.



Unmaintained BMP in the UNT S. Fork of the Hughes River watershed.



Unmaintained BMP in the UNT S. Fork of the Hughes River watershed.



Offsite CNA deposits resulting from the previously unmaintained BMP in the UNT S. Fork of Hughes River (39° 11.467' X 80° 49.011').



Offsite CNA deposits in the UNT S. Fork of Hughes River (39° 11.467' X 80° 49.011') that originate from site.



Sheet flow BMP installed in a concentrated flow area in the Sugar Run watershed. Pictured silt fence is not designed for concentrated flow treatment.



Sheet flow BMP installed in a concentrated flow area in the Sugar Run watershed. Pictured silt fence is not designed for concentrated flow treatment.



Improperly merged perimeter controls in the S. Fork of Hughes River watershed.



Improperly merged perimeter controls in the S. Fork of Hughes River watershed.



Improperly installed water bar in the Georgescamp Run watershed. Water bar installed at a steep angle and discharges over an unprotected fill slope instead of off project as designed.



Improperly installed water bar in the Georgescamp Run watershed. Water bar installed at a steep angle and discharges over an unprotected fill slope instead of off project as designed.



Improperly installed water bar in the Bluestone Creek watershed. Water bar discharges over an unprotected fill slope instead of off project as designed.



Improperly installed water bar in the Jims Run watershed. Water bar outlet discharges inside of the installed perimeter control and an appropriate outlet was not provided.



Improperly installed water bar in the Taylor Drain watershed. Water bar outlet discharges inside of the installed perimeter control and an appropriate outlet was not provided.



Improperly installed water bar in the Taylor Drain watershed. Water bar outlet discharges inside of the installed perimeter control and an appropriate outlet was not provided.



Improperly installed water bar in the Taylor Drain watershed. Water bar outlet discharges inside of the installed perimeter control and an appropriate outlet was not provided.



Concentrated flow area along the installed perimeter control downslope of the above pictured BMP.



Improperly installed water bar in the S. Fork of Hughes River watershed. Water bar discharges over an unprotected fill slope.



Outlet treatment that is overwhelmed due to stormwater flow from multiple water bars being directed at it. Maintenance of the BMP is poor. The contractor is adding additional layers of BMPs instead of conducting maintenance work. The furthest layer of BMPs is offsite.



Improperly installed water bars in the UNT Georgescamp Run watershed.



Fill slope erosion and recently repaired perimeter control downslope of the above pictured deficiency.



Offsite CNA deposits in UNT Georgescamp Run (39° 15.134' X 80° 44.327') that originate from the previously pictured improperly installed water bars.



Offsite CNA deposits in UNT Georgescamp Run (39° 15.134' X 80° 44.327') that originate from the previously pictured improperly installed water bars.



Area where two water bars are indicated in the approved SWPPP in the Taylor drain watershed that are not in place.



Associated fill slope erosion downslope of the above pictured area lacking water bars that are indicated in the approved SWPPP.



Slope adjacent to UNT Taylor Drain where water bars that are in the approved SWPPP are not in place.



Fill slope erosion as a result of the above pictured deficiency.



Installed BMP that is overwhelmed adjacent to UNT Taylor Drain as a result of a failure to install water bars.



Installed BMP that is overwhelmed adjacent to UNT Taylor Drain as a result of a failure to install water bars.



UNT Taylor Drain upstream of the project.



CNA deposits in in UNT Taylor Drain (39° 11.391' X 80° 50.386') as a result of the previously pictured deficiencies from a failure to install water bars.



BMP that has been recently removed adjacent to ARDO009.1 and has not been replaced.



Installed BMP that is in need of maintenance on to ARDO009.1.



Water bar that lacks the outlet BMP indicated in the approved SWPPP in the UNT Sugar Run watershed.



Water bar that lacks the outlet BMP indicated in the approved SWPPP in the UNT Sugar Run watershed.



Areas of disturbance that were temporarily stabilized in December that have not germinated and have not been reseeded in the Taylor Drain watershed.



Areas of disturbance that were temporarily stabilized in December that have not germinated and have not been reseeded in the Taylor Drain watershed.



Discarded dewatering bag in the Bluestone Creek watershed.



Discarded dewatering hose in the Georgescamp Run watershed.



Area adjacent to 3314+00 where the approved SWPPP does not indicate the need for perimeter controls and the plan has proved inadequate. Offsite sediment deposits documented in lower photo.



Overview of area of improperly installed water bars from 2590+00 to 2595+00.



Overview of area of improperly installed water bars from 2590+00 to 2595+00.



Fill slope erosion below an improperly installed water bar adjacent to 2592+50.



Improperly installed water bar adjacent to 2591+00.



Water bar terminus adjacent to 2591+00 showing the area where concentrated flow is directed over the unprotected fill slope.



Fill slope erosion downslope of the above pictured water bar.



Project area adjacent to 2452+14 showing improperly installed water bars.



Water bar that terminates inside of the installed perimeter control adjacent to 2452+14.



Water bar that terminates inside of the installed perimeter control adjacent to 2452+14.



Fill slope erosion downslope of the above pictured water bar.



Water bar erosion in the Wolfepen Run watershed as a result of the BMP being constructed at a steep angle.



Improperly installed water bars in the Wolfepen Run watershed.



Water bar that terminates inside of the installed perimeter controls in the Wolfepen Run watershed.



Close up view of the above pictured deficiency.



Improperly installed water bars in the Englands Run watershed.



Above pictured water bars showing fill slope erosion downslope of the outlet.



Water bar outlet in need of maintenance and the associated offsite sediment deposits in the UNT Wolfepen Run watershed.



Areas in the Meathouse Fork watershed on the MXP-100 that are in need of reseeding.



Area in the Meathouse Fork watershed of the MXP-100 that has failed to germinate and has recently been reseeded.



Access road ARDO004 showing the need for maintenance and stabilization.



Water bars in the Neds Run watershed that have been temporarily repaired with silt fence and need to be reestablished with equipment.



Water bars in the Meathouse Fork watershed that have been temporarily repaired with silt fence and need to be reestablished with equipment.



Overview of the slip associated with spill report #-09-90266 (A) showing the need for maintenance to the installed BMPs.



Upslope at station No. 5355+67. Erosion present in waterbar.



Controls below waterbar outlet terminating onto fill slope causing erosion on slope at station No. 5355+67. Arrow depicts slip area next to outlet.



Slip area next to waterbar terminating onto slope at station No. 5355+67.



Facing upslope at station No. 5355+67 where slip was occurring and depositing sediment against and over perimeter controls.



Perimeter controls overwhelmed with sediment downslope of slip area at station No. 5355+67



Perimeter controls overwhelmed with sediment downslope of slip area at station No. 5355+67



Sediment laden water leaving the site at station No. 5355+67 downslope of slip area.



Past slip area with sediment deposited against super silt fence near station No. 5355+67. Arrow depicts where erosion was occurring on slope.



Erosion occurring on slope next to topsoil pile near station No. 5355+67.



Erosion occurring on slope next to topsoil pile near station No. 5355+67.



Saturated section of ROW where Access Road ARWI 024 was coming onto MXP ROW at station No. 5372+00. Arrow depicts ditch line on access road that was conveying run-on onto ROW.



Slip area below Access Road ARWI 024 facing downslope at perimeter controls at station No. 5372+00.



Slip present near station No. 5372+00 south of ARWI 024.



Waterbar outlet controls on slope south of ARWI 024 near station No. 5372+00. Perimeter controls overwhelmed with sediment. Erosion occurring under and next to Geotech fabric.



Waterbar outlet controls on slope south of ARWI 024 near station 5372+00. Perimeter controls overwhelmed with sediment. Erosion occurring under and next to Geotech fabric.



Waterbar outlet controls on slope south of ARWI 024 near station 5396+00. Perimeter controls overwhelmed with sediment. Erosion occurring under and next to Geotech fabric.



Waterbar outlet controls on slope south of ARWI 024 near station 5372+00. Perimeter controls overwhelmed with sediment. Erosion occurring under and next to Geotech fabric. Sediment removed from behind controls and placed in pile several feet behind controls. Deposits observed past the LOD.



Waterbar outlet controls on slope south of ARWI 024 near station 5372+00. Perimeter controls overwhelmed with sediment. Erosion occurring under and next to Geotech fabric.



Erosion occurring on slope above waterbar at station No. 5396+00



Erosion occurring on slope above waterbar at station No. 5396+00



Waterbar terminating onto slope at station No. 5396+00. Arrow depicts where waterbar eroded out and sediment was flowing around controls.



Erosion occurring below where waterbar was eroded. Sediment being deposited past LOD at station No. 5396+00.



Sediment being deposited past LOD at station No. 5396+00.



South of Station No. 5396+00. Waterbar with erosion present leading to overwhelmed controls.



South of Station No. 5396+00. Waterbar outlet controls overwhelmed with sediment deposits past LOD.



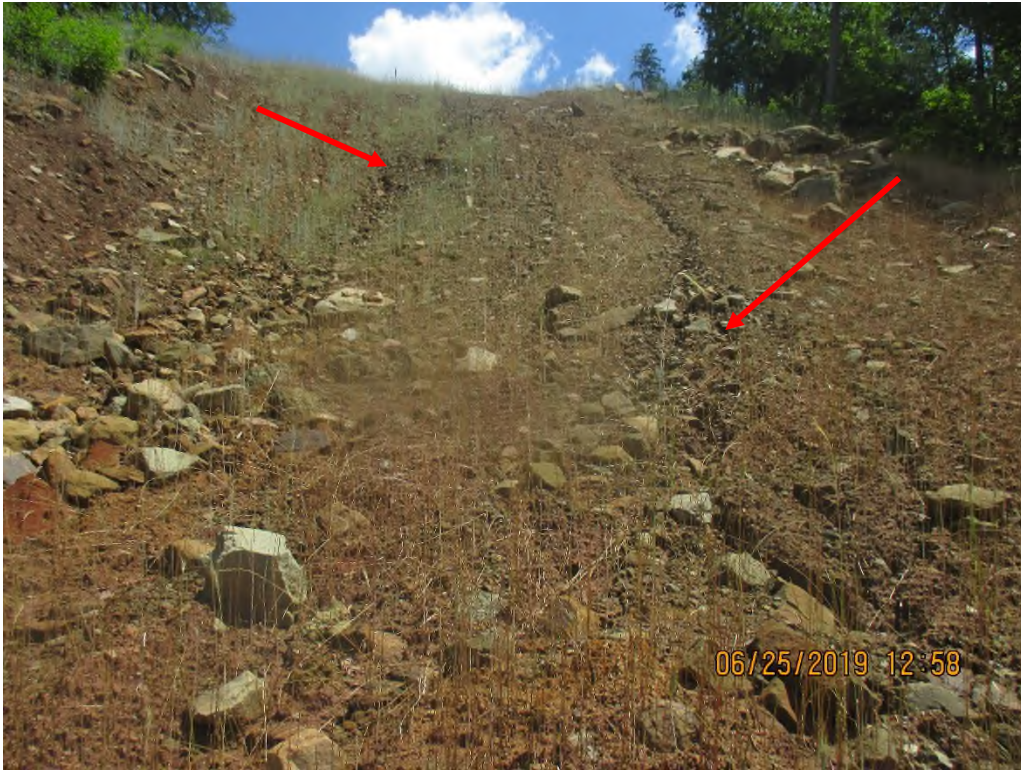
South of Station No. 5396+00. Downslope of overwhelmed Waterbar outlet controls with sediment deposits past LOD.



South of Station No. 5396+00. Sediment deposits past LOD.



South of station No. 5396+00, downslope towards Munchausen Road Crossing.



South of Station No. 5396+00. Erosion on slope above Munchausen Road Crossing.



South of Station No. 5396+00. Erosion on slope above Munchausen Road Crossing leading towards waterbar and perimeter controls.



South of Station No. 5396+00. Erosion on slope above Munchausen Road Crossing leading toward waterbar and perimeter controls. Controls in need of maintenance. Arrow depicts where controls are undercut.



South of Station No. 5396+00. Slope above Munchausen Road Crossing leading toward waterbar and perimeter controls. Sediment being deposited against log piles past LOD.



South of Station No. 5396+00. Sediment being deposited past log piles beyond LOD.



Erosion on slope above Munchausen Road crossing.



Erosion above and between controls above the Munchausen Road crossing.



Facing upslope at controls above ditch line that parallels Munchhausen road. Sediment laden water and deposits present in ditch.



Munchausen Road crossing and ditch with sediment deposits. Ditch conveys to culvert that conveys under road to grass field outside of permitted workspace and LOD. Arrow depicts culvert approximate location.



Culvert outlet downslope of MXP RPW along Munchausen Road.



Across from Munchausen road crossing adjacent slope. Pipe trench drain terminating onto unprotected slope.



Middle Fork Road Crossing at station No. 5643+50 above stream SRUA 005 facing downslope. Waterbars eroded out where they were tied into topsoil pile.



Middle Fork Road Crossing at station No. 5643+50 above stream SRUA 005. Waterbars eroded out where they were tied into topsoil pile.



Middle Fork Road Crossing at station No. 5643+50 above stream SRUA 005 facing perimeter controls downslope of where Waterbars were eroded. Controls not maintained, with sediment deposits past LOD.



Middle Fork Road Crossing at station No. 5643+50 above stream SRUA 005 facing upslope at solid waste.



Solid waste present at station No. 5643+50.



Solid waste at station No. 5643+50.





Waterbar terminating into perimeter controls at station No. 5638+46. Erosion present on slope above controls.



Facing South towards Stream SROC 029 at station No. 5638+46 below waterbar with erosion present on slope.



Perimeter controls at station No. 5638+46.



Perimeter controls at station No. 5638+46. Impacted pond downslope of controls.



Sediment deposits past controls and LOD at station No. 5638+46. Deposits present above impacted pond.



Sediment laden water and deposits being transported towards impacted pond at station No. 5638+46.



Controls in place on pond edge. Evidence observed that pond overtops banks during high rain events due to staining of grass below these controls. Pond culvert flows under these controls subsurface. Water was running through the culvert.



Blue line depicts stained grass below controls and impacted pond at station No. 5638+46.



Impacted pond culvert outlet conveying sediment laden water towards Stream SROC 029 at station No. 5638+47. Arrow depicts culvert outlet.



Stream SROC 029 crossing facing North near station No. 5638+47. Arrow depicts distinct sediment plume observed on day of inspection.



Standing at Stream SROC 029 crossing facing North near station No. 5638+47. Arrow depicts Distinct sediment plume observed on day of inspection.



Controls overwhelmed with sediment at bridge crossing (North side) of Stream SROC 029 near station No. 5638+46.



Perimeter control in need of maintenance at ARDO016.



Perimeter control in need of maintenance at ARDO015.12.



Perimeter control in need of maintenance in the Sugar Run watershed.



Perimeter control in need of maintenance in the Sugar Run watershed.



Perimeter control in need of maintenance in the Taylor Drain watershed.



Perimeter control in need of maintenance in the Taylor Drain watershed.



Perimeter control in need of maintenance at ARDO015.12.



Offsite sediment deposits as a result of the above pictured deficiency.



Recently maintained perimeter control adjacent to UNT Sugar Run (SDOH11).



Additional maintenance needed to the above pictured BMP. Dirt clods placed on the silt fence flap and not repaired properly.



Offsite sediment trail leading to UNT Sugar Run (SDOH11) as a result of the previously pictured deficiency.



Offsite CNA deposits in UNT Sugar Run (SDOH11) (39° 11.151' X 80° 50.816') as a result of the previously pictured deficiency.



Water bar in need of maintenance in the Sugar Run watershed.



Associated fill slope erosion.



Fill slope erosion downslope of the previously pictured unmaintained water bar.



Installed perimeter control downslope of the above pictured fill slope erosion that has been overwhelmed and is placing sediment into ephemeral UNT Sugar Run (onsite stream pictured).



Unmaintained perimeter control in the Sugar Run watershed that is placing sediment into onsite ephemeral UNT Sugar Run.



Unmaintained perimeter control in the Sugar Run watershed that is placing sediment into onsite ephemeral UNT Sugar Run.



Offsite CNA deposits in UNT Sugar Run (39° 11.075' X 80° 51.108') as a result of the three previously pictured unmaintained perimeter controls.



Offsite CNA deposits in UNT Sugar Run (39° 11.075' X 80° 51.108') as a result of the three previously pictured unmaintained perimeter controls.



Erosion gullies that run from the top of the slope to the bottom of the slope adjacent to UNT Left Fork of Arnolds Creek (SDOG040) due to poor maintenance of installed water bars. Concentrated flow stormwater is overwhelming the installed perimeter controls at the base of the hill.



Erosion gullies that run from the top of the slope to the bottom of the slope adjacent to UNT Left Fork of Arnolds Creek (SDOG040) due to poor maintenance of installed water bars. Concentrated flow stormwater is overwhelming the installed perimeter controls at the base of the hill.



Erosion gullies that run from the top of the slope to the bottom of the slope adjacent to UNT Left Fork of Arnolds Creek (SDOG040) due to poor maintenance of installed water bars. Concentrated flow stormwater is overwhelming the installed perimeter controls at the base of the hill.



Erosion gullies that run from the top of the slope to the bottom of the slope adjacent to UNT Left Fork of Arnolds Creek (SDOG040) due to poor maintenance of installed water bars. Concentrated flow stormwater is overwhelming the installed perimeter controls at the base of the hill.



Erosion gullies that run from the top of the slope to the bottom of the slope adjacent to UNT Left Fork of Arnolds Creek (SDOG040) due to poor maintenance of installed water bars. Concentrated flow stormwater is overwhelming the installed perimeter controls at the base of the hill.



UNT Left Fork of Arnolds Creek (SDOG040) upstream of this project.



Offsite CNA deposits in UNT Left Fork of Arnolds Creek (SDOG040) as a result of the previously pictured unmaintained water bars and associated fill slope erosion.



Offsite CNA deposits in UNT Left Fork of Arnolds Creek (SDOG040) as a result of the previously pictured unmaintained water bars and associated fill slope erosion.



ARDO13.5 showing the need for maintenance to the stabilized surface.



ARDO13.5 showing the need for maintenance to the stabilized surface.



The installed timber mat bridge at the Taylor Drain crossing showing the need for maintenance.



The installed timber mat bridge at the Taylor Drain crossing showing the need for maintenance.



The installed timber mat bridge at the UNT Left Fork of Arnolds Creek (SDOG040) crossing showing the need for maintenance.



The installed timber mat bridge at the UNT Left Fork of Arnolds Creek (SDOG040) crossing showing the need for maintenance.



Area in the Trap Run watershed where the applied seed has failed to germinate, and the area was not reseeded.



Area in the Trap Run watershed where the applied seed has failed to germinate, and the area was not reseeded.



Sheet flow silt fence placed in a concentrated flow area at the terminus of a water bar in the Sugar Run watershed.



Sheet flow silt fence placed in a concentrated flow area at the terminus of a water bar in the Sugar Run watershed.



Improperly installed water bar in the Taylor Drain watershed. Water bar terminates prior to the installed perimeter control (sheet flow silt fence in concentrated flow area).



Water bar installed at varying angles in the Taylor Drain watershed.



Improperly merged perimeter control adjacent to Sugar Run.



Improperly installed perimeter control in the Sugar Run watershed.



Area of concentrated flow that has caused fill slope erosion. Evidence of a recently altered perimeter control was noted due to the perimeter control being overwhelmed.



Perimeter control that was recently altered. An inequivalent 8" compost filter sock is being utilized to replace a concentrated flow silt fence in an area where the silt fence had previously failed.



Improperly installed water bar in the Sugar Run watershed. Water bar does not extend across the entire disturbed width of the right of way as indicated in the approved SWPPP.



Improperly installed water bar in the Sugar Run watershed. Water bar does not extend across the entire disturbed width of the right of way as indicated in the approved SWPPP and is placing concentrated flow stormwater over an unprotected fill slope.



Improperly installed water bar in the Trap Run watershed. Water bar does not extend across the entire disturbed width of the right of way as indicated in the approved SWPPP and is placing concentrated flow stormwater over an unprotected fill slope.



Fill slope erosion downslope of the above pictured deficiency. Silt fence ditch check in the erosion gully has become inundated with sediment.



Perimeter controls downslope of the previously pictured deficiency in the Trap Run watershed that has become inundated with sediment as a result of poorly installed water bars.



Perimeter controls downslope of the previously pictured deficiency in the Trap Run watershed that has become inundated with sediment as a result of poorly installed water bars. Area where sediment laden water is leaving the site is pictured.



Offsite CNA deposits in UNT Trap Run (SDON826) as a result of the previously pictured improperly installed water bars and associated fill slope erosion.



Offsite CNA deposits in UNT Trap Run (SDON826) as a result of the previously pictured improperly installed water bars and associated fill slope erosion.



Improperly installed water bar in the UNT Left Fork of Arnolds Creek watershed. Water bar is installed at a shallow depth and a steep angle.



Area adjacent to the above pictured water bar showing offsite sediment deposits associated with a previous mud flow that Columbia Gas attempted to contain with silt fence. The silt fence is in need of maintenance.



Area downslope of the previously pictured mud flow showing the trail of sediment deposits leading to the receiving stream from the project area.



Offsite CNA deposits in UNT Left Fork of Arnolds Creek (SDOG056) (39° 13.388' X 80° 46.813') as a result of the previously pictured improperly installed water bars and unmaintained perimeter controls adjacent to the offsite mud flow.



Water bars that do not extend past the installed perimeter controls in the UNT Left Fork of Arnolds Creek watershed showing fill slope erosion along the silt fence trench.



Water bar that does not extend past the installed perimeter controls in the UNT Left Fork of Arnolds Creek watershed.



Low area adjacent to UNT Left Fork of Arnolds Creek (SDOG057) where stormwater from a large area is directed due to improperly installed water bars that don't discharge stormwater offsite in small quantities as designed. BMPs are inundated with sediment and in need of maintenance as a result.



Trail of offsite sediment deposits that leads to UNT Left Fork of Arnolds Creek (SDOG057).



Offsite CNA deposits in UNT Left Fork of Arnolds Creek (SDOG057) (39° 13.355' X 80° 46.851') as a result of the previously pictured improperly installed water bars and unmaintained perimeter controls.



Offsite CNA deposits in UNT Left Fork of Arnolds Creek (SDOG057) (39° 13.355' X 80° 46.851') as a result of the previously pictured improperly installed water bars and unmaintained perimeter controls.



UNT Left Fork of Arnolds Creek (SDOG057) showing offsite sediment deposits that originate from the previously documented CNA deposits in SDOG056 & SDOG057.



Project area adjacent to 2965+00 showing perimeter controls installed to protect the delineated UNT Left Fork of Arnolds Creek (SDOG057). The pictured accumulated instream sediment deposits originate from the previously documented CNA deposits in SDOG056 & SDOG057.



Water bar that does not extend past the installed perimeter controls in the UNT Left Fork of Arnolds Creek watershed.



Fill slope erosion along the installed silt fence trench as a result of the above pictured deficiency.



Water bar that lacks the water bar terminus BMP indicated in the approved SWPPP in the Sugar Run watershed.



Water bar that lacks the water bar terminus BMP indicated in the approved SWPPP in the UNT Left Fork of Arnolds Creek watershed.



Water bar terminus.

07/02/2019

Offsite sediment deposits downslope of the previously pictured water bar that lacks the water bar terminus BMP indicated in the approved SWPPP in the UNT Left Fork of Arnolds Creek watershed.



07/02/2019

Offsite sediment deposits downslope of the previously pictured water bar that lacks the water bar terminus BMP indicated in the approved SWPPP in the UNT Left Fork of Arnolds Creek watershed.



ARDO015.12 - lack of installed BMPs and lack of a graveled surface as indicated in the approved SWPPP.



ARDO015.12 - lack of installed BMPs and lack of a graveled surface as indicated in the approved SWPPP.



ARDO015.12 - lack of installed BMPs and lack of a graveled surface as indicated in the approved SWPPP.



Offsite sediment deposits as a result of the above pictured deficiency.



ARDO015.12 - lack of installed BMPs and lack of a graveled surface as indicated in the approved SWPPP.



ARDO015.12 - lack of installed upslope ditching and the associated cross drains as well as lack of a graveled surface as indicated in the approved SWPPP.



Area adjacent to 3314+00 where the approved SWPPP does not indicate the need for perimeter controls and the SWPPP has proved inadequate.



Offsite sediment deposits associated with the above pictured deficiency.



Project area adjacent to 3214+00 showing erosion gullies associated with concentrated flow run on stormwater. The approved SWPPP does not address this situation and the plan has not been modified in this area.



Project area adjacent to 3214+00 showing erosion gullies associated with concentrated flow run on stormwater. The approved SWPPP does not address this situation and the plan has not been modified in this area.



Project area adjacent to 3214+00 showing erosion gullies associated with concentrated flow run on stormwater. The approved SWPPP does not address this situation and the plan has not been modified in this area.



Perimeter controls adjacent to 3214+00 that are inundated with sediment and in need of maintenance as a result of the above pictured deficiency.



Perimeter controls adjacent to 3214+00 that are inundated with sediment and in need of maintenance as a result of the previously pictured deficiency.



Improperly installed perimeter controls adjacent to 3214+00 that are inundated with sediment and in need of maintenance as a result of the previously pictured deficiency.



Improperly installed perimeter controls adjacent to 3214+00 that are inundated with sediment and in need of maintenance as a result of the previously pictured deficiency.



Trail of offsite sediment deposits leading to UNT Trap Run (SDON829) from the previously pictured deficiencies adjacent to 3214+00.



Trail of offsite sediment deposits leading to UNT Trap Run (SDON829) from the previously pictured deficiencies adjacent to 3214+00.



Offsite CNA deposits in UNT Trap Run (SDON829) as a result of the previously pictured deficiencies adjacent to 3214+00.



Solid waste on site that is in need of proper removal in the Trap Run watershed.



Upslope toward MXP ROW at Sulu Road toward ongoing slip at station No. 7347+00.



Facing toward ditch line along Sulu road below slip. Arrow depicts culvert inlet.



Culvert outlet downslope of Sulu Road leading to multiple controls upslope of 18-Mile creek.



Last silt fence above 18-Mile Creek, upslope at Sulu road and slip.



Last silt fence above 18-mile creek. Arrow depicts where sediment laden water was flowing into sandbags.



18-Mile Creek

WVR310872 Mountaineer Express Pipeline 7/3/19



Second culvert outlet that covers under Sulu road and was receiving sediment laden water from ditch line impacted by slip.



Last control in place above 18-Mile Creek. Sediment laden water was flowing past this control and into dense vegetation.



Installed timber mat equipment bridge at UNT Riggins Run (SDOG902) showing the need for maintenance.



Installed timber mat equipment bridge at UNT Riggins Run (SDOG903) showing the need for maintenance.



Perimeter controls at the slip repair site showing the need for maintenance.



Perimeter controls at the slip repair site showing the need for maintenance.



Water bars that were installed at steep angles in the Riggins Run watershed.



Culvert on west side showing sediment deposits from ROW runoff.



Culvert inlet below ROW on east side filled with sediment from runoff.



Runoff undermined the road, causing the slip.



East side ditch filled with sediment from ROW runoff.



East ditchline at ROW filled with sediment from runoff.



Path of sediment laden water detoured around silt fence resulting in sediment deposits.



Path of sediment laden water and deposits above east side road ditch.



Erosion gullies on fill slope.



Water bar not installed correctly.



Seed failed to germinate within 30 days.



No controls were installed along access road, and seed failed to germinate.



Sump not maintained. Several were noted along the inspected ROW.



Near station No. 8772+72 facing South. Arrow depicts slip area and drainage point in between slopes leading to overwhelmed perimeter controls.



Adjacent slope facing North. Arrow depicts waterbar outlet control failure causing erosion on slope.



Facing upslope towards waterbar outlet controls. Arrow depicts erosion caused by outlet control failure.



Area where curlex had been added to stabilize slope. Soil was slipping from under the curlex and being transported downslope towards perimeter controls. Arrow depicts slipped material.



Downslope of slipped material. Sediment being transported into waterbar towards perimeter controls. Arrow depicts sediment accumulation in waterbar.



Slipped material accumulating in waterbar at edge of LOD with no outlet control at waterbar terminus near station No. 8772+72.



Perimeter control at Waterbar termini downslope of slipped material. Perimeter control overwhelmed and undermined due to concentrated flow.



Arrow depicts where erosion was present along perimeter controls flowing towards drainage with overwhelmed outlet controls.



Drainage area between the two slopes facing North. Arrow depicts where erosion was occurring and overwhelming perimeter controls.



Drainage point between two slopes where erosion was present. Arrow depicts controls overwhelmed with sediment.



Perimeter controls overwhelmed with sediment due to erosion on slopes near station No. 8772+72.



Perimeter Controls that were overwhelmed with sediment.



Perimeter controls overwhelmed with sediment and not being maintained.



Ditch line conveying across complainants' yard towards Charles Creek Road.



Sandbags installed to stabilize ditch. Arrow depicts where slope drain inlet was located.



Slope drain conveying across complainants' yard and into roadside ditch. Arrow depicts where slope drain terminated into culvert that conveys under Charles Creek Road.



Slope drain outlet above culvert that conveys under Charles Creek Road.



Standing near station No. 3368+00 facing north at MXP ROW.



Standing near station No. 3368+00 facing south at MXP ROW.



Sediment being deposited behind and past controls near station No. 3368+00.



Sediment deposits past the LOD and controls near station No. 3368+00.



Waterbar terminating into perimeter controls near Station No. 3368+00 causing erosion downslope of controls. Arrow depicts gully erosion on slope.



Downslope of gully erosion occurring on slope. Sediment deposited behind and past controls near station No. 3368+00.



Downslope of gully erosion occurring on slope. Sediment deposited behind and past controls near station No. 3368+00.



Facing south toward Bear Run and (CR 22/1) near station No. 3380+84. ROW not stabilized.



Waterbar terminating into perimeter controls near station No. 3380+84. Sediment being deposited against controls. Arrow depicts waterbar flow.



Gully erosion present between waterbars near station No. 3380+84. No waterbar outlet or perimeter controls observed.



Sediment deposits observed past the LOD downslope from where gully erosion was occurring, and no waterbar outlet or perimeter controls were observed. Arrow depicts sediment deposits observed.



Standing above CR 22/1 facing South. A previous NOV was issued due to failures in this area. Waterbar outlet controls were not maintained, and there was evidence of sediment laden water overtopping controls.



Perimeter controls along CR 22/1 with sediment deposits behind and past controls. Hole present in silt fence.



Perimeter controls along CR 22/1 near station No. 3380+84 with sediment deposits behind and past controls. Hole present in silt fence.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 12/3/2018



The construction access road to WV 18 showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



The construction access road to WV 18 showing the lack of a stable construction entrance and the associated track-out onto the public roadway.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 12/3/2018



The construction access road to WV 18 showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



The construction access road to WV 18 showing the lack of a stable construction entrance and the associated track-out onto the public roadway.



Screen Shot of MXP ROW and Compressor Station.



Route 21 facing North at Compressor Station entrance.



Facing South on route 21 at compressor station entrance.



Pressure washing station upslope of entrance and Route 21.



Rock lined ditch terminating at drop inlet adjacent to entrance.



Drop inlet where sediment laden water was entering from pressure wash station.



Sediment trap/sump at entrance.



Facing toward drop inlet and sediment trap that was overflowing into ditch.



Facing North at impacted ditch and route 21.



Sediment laden water entering ephemeral stream that crosses under route 21. Arrow shows culvert that crosses under Route 21.



West Side of Route 21 at culvert crossing, flowing towards Grasslick Run.



The construction access road to WV 18 showing the ineffectiveness of the construction entrance at preventing track-out onto the public roadway.



The construction access road to WV 18 showing the ineffectiveness of the construction entrance at preventing track-out onto the public roadway.



The construction access road to WV 18 showing the ineffectiveness of the construction entrance at preventing track-out onto the public roadway.



WV 18 showing track-out and slick film of mud on the public roadway that originates from project.



The construction access road to WV 18 showing the ineffectiveness of the construction entrance at preventing track-out onto the public roadway.



WV 18 showing track-out and slick film of mud on the public roadway that originates from project.



Mt. Olive Compressor station entrance along Route 21.



Off-site sediment deposits present in roadside ditch along route 21.



BMPs in place at rock lined ditch terminus.



South side of access road rock lined ditch terminus.



Diversion ditch along south side slope.



Facing toward compressor station. Erosion rills occurring along south slope.



Armored channel on south slope facing station access road.



Facing section of south slope from access road.



Southern slope armored channel terminus with evidence of concentrated flows and BMP being overwhelmed during rain events.



Silt fence along south slope parameter needing maintenance.



North west slope. Slope is eroding above silt fence.



Silt fence being undermined where sediment has concentrated behind fence.



Silt fence with hole.



Access road with BMP being overwhelmed and needing maintained or enhanced.



Sediment deposits beyond LOD and BMP along access road.



North slope of project where several discharge points (silt fences labeled as 23 and 24) are located along diversionary berm.



Discharge point (silt fence 23) on North slope that flows into UNT of Grasslick Creek.



Diversion ditch flowing into discharge point at silt fence 24.



Discharge point at Silt Fence labeled as 24 on North slope that flows into UNT of Grasslick Creek.



Pipe slope drain on north side of project.



Slope drain terminus at silt fence labeled as 30.



Western side of project facing toward Route 21 and construction entrance.



View of South side of project. Slope not protected near compressor station.



Top of slope facing section of slope not stabilized.



Area below truck wash showing path of sediment laden water.



Installed BMPs downslope of truck wash.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 01/17/2019



Installed BMPs showing the need for maintenance.



Offsite CNA in UNT Meathouse Fork.



Concentrated flow from the installed truck wash being directed over an unprotected fill slope.



Erosion gullies in the fill slope as a result of concentrated flow originating from the truck wash.



Basin 1 inlet showing the lack of a stabilized inlet.



Basin 1 inlet showing the lack of a stabilized inlet.



Overview of the area where the proposed basin (Basin 2) was to be constructed.



Rock filtration device that is in place. The proposed sediment basin in the approved SWPPP is not in place as designed.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 01/17/2019



Rock filtration device that is in place. The proposed sediment basin in the approved SWPPP is not in place as designed.



Sediment deposits located outside of the original project area that originate from the rock filtration device due to the lack of an installed sediment basin as indicated in the approved SWPPP.



The installed diversion along the southern edge of the project that is eroded and in need of maintenance.



The installed diversion along the southern edge of the project that is eroded and in need of maintenance.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 01/17/2019



Northwestern perimeter of the project showing the lack of perimeter silt fence that is indicated in the approved SWPPP.



Northwestern perimeter of the project showing the lack of perimeter silt fence that is indicated in the approved SWPPP.



Perimeter silt fence in need of maintenance.



Drop inlet protection in need of maintenance.



Slope that lacks adequate temporary stabilization in the northwestern portion of the project.



Slope that lacks adequate temporary stabilization in the northwestern portion of the project.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 01/17/2019



Improperly installed silt fence in the eastern portion of the project.

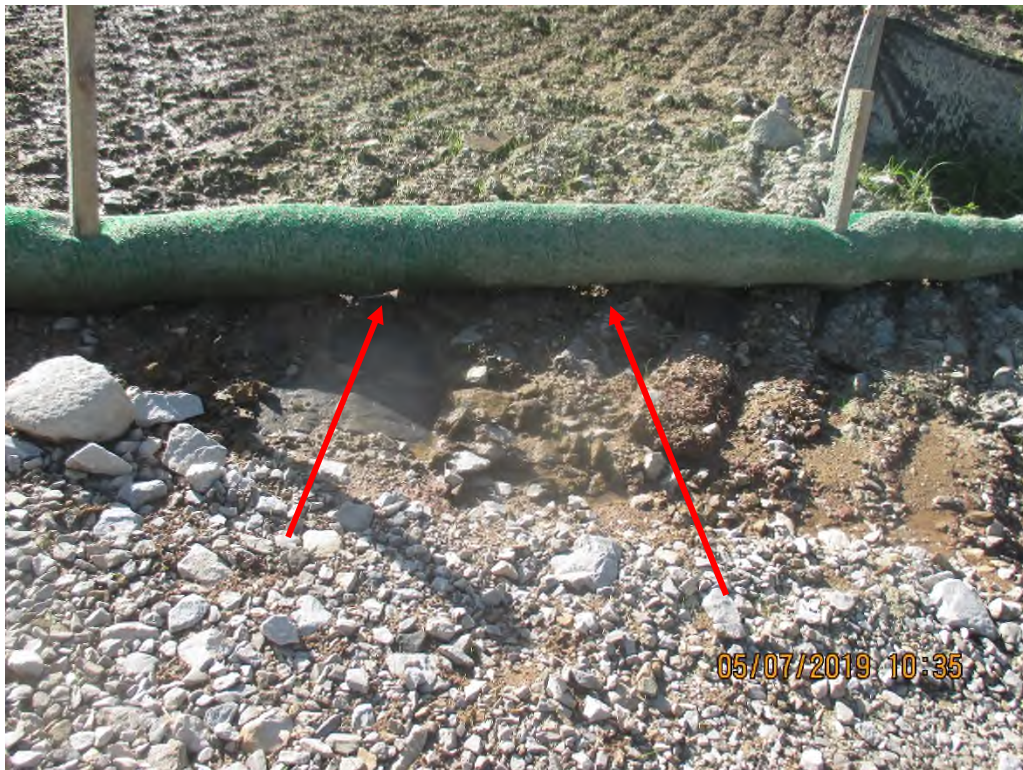


Small amount of offsite sediment deposits as a result of the above pictured deficiency.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Controls above roadside drain. Sediment being deposited behind controls at base of slope. Arrow depicts roadside drain.



Controls above roadside drain. Compost filter sock had not been tied-in properly. Evidence of sediment laden water flowing under this control. Erosion was present on slope above and below this control. Arrows depict gaps in bottom of control.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Facing downslope at construction entrance toward outlets for roadside drain and drop inlet. These outlets convey into UNT of Grasslick Run.



Drop inlet outlet and roadside drain outlets facing toward Route 21 and roadside ditch.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Roadside ditch below roadside drain and drop inlet outlets. Sediment present in ditch that conveys to UNT of Grasslick Run.



Rock placed in depression at base of West slope. Sediment present above smaller rock lined diversion.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Sediment present above smaller rock in diversion.



Drop inlet below sediment ponding. Sediment laden water was entering this drop inlet.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Access road to bottom of West side slope. Rock checks present in middle of road. Drop inlet in place downslope of this road. Sediment was being conveyed into this inlet and was present in the ephemeral stream within the LOD. Arrow depicts drop inlet below this road.



Rock check at drop inlet's outlet, upslope of drop inlet above ephemeral stream. Arrow depicts outlet pipe and erosion between rock checks and inlet.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Drop inlet's outlet facing downslope at ephemeral stream leading to UNT of Grasslick Run. Arrow depicts sediment deposits past controls.



Downslope of controls in ephemeral stream. Controls in need of maintenance and enhancement upslope.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Super silt fence installed at base of North slope below compressor station pad. Arrow depicts hole in fence.



Controls at base of NE slope facing upslope. Controls in need of maintenance due to undermining, causing erosion below controls. Arrow depicts erosion below controls.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Slip occurring on East side of compressor station above pad.



Diversion swale outlet terminating on rock armored pad. However, no controls to protect fill slope below this to the access road were in place.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Erosion occurring adjacent to diversion swale outlet. Run-off from pad eroding fill slope on south side of pad.



Erosion occurring adjacent to diversion swale outlet. Run-off from pad eroding fill slope on south side of pad.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



View facing upslope at South slope. Arrows depict swale outlet and erosion occurring from run-off from pad.



Erosion occurring below swale outlet on South slope.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Erosion rills occurring on unprotected south slope above ditch that conveys under access road and toward perimeter of project.



Erosion on south slope above ditch that conveys toward perimeter of project.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Ditch line along access road below erosion that was taking place along south slope of compressor station pad.
Arrow depicts unstabilized portion of slope above ditch and culvert inlet.



Ditch line along access road below erosion that was taking place along south slope of compressor station pad.
Unstabilized portion of slope above ditch and culvert inlet.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Sediment deposited in ditch downslope of erosion observed on South slope of compressor station pad.



Culvert inlet on South side of compressor station slope conveying under access road. Sediment deposits present in drop inlet.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Facing east toward South slope where erosion was observed. Arrow depicts erosion occurring on road.



Erosion present on access road above culvert crossing.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Perimeter outlet controls below armored channel at the base of the South slope.



Silt fence on Southwest slope of project perimeter with small hole at stain line on fence.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Perimeter controls on southwest slope of project LOD.



Downslope of perimeter controls on south west slope of project LOD. Arrow depicts evidence that sediment laden water had flowed past controls.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Perimeter controls on south west slope of project LOD. Arrow depicts evidence that sediment laden water had flowed past controls.



Perimeter controls on south west slope of project LOD. Arrow depicts evidence that sediment laden water had flowed past controls.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Southwest slope above LOD facing perimeter controls. Scouring present on slope above controls.



Area of unstabilized slope with erosion occurring on western side of project.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Controls on West side of unstabilized slope facing MXP Spread 7 and Route 21.



Facing North towards old reggraded construction entrance on West side of project. Arrow depicts erosion occurring on slope.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Erosion occurring on slope above perimeter controls on West slope.



Perimeter controls below erosion on former access road. Arrow depicts silt fence is not trenched-in.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Below perimeter controls and silt fence that is not trenched-in on West Slope. Erosion gully forming downslope of controls.



Downslope of erosion gully. Sediment deposited behind controls and being transported along perimeter controls and past LOD.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Downslope of perimeter controls below West slope perimeter.



Slope drain outlet terminating onto slope above vegetated buffer.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



West slope facing perimeter controls and route 21 above slope drain outlet. Erosion present on slope. Arrow depicts slope drain outlet.



Downslope of slope drain outlet on west slope above LOD. Arrow depicts slope drain. Erosion present on slope, depositing sediment into and through perimeter controls.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Downslope of slope drain outlet on west slope above LOD. Erosion present on slope, depositing sediment into and through perimeter controls. Super silt fence not maintained.



Super silt fence with sediment deposited above, below, and into roadside ditch. Arrow depicts off-site sediment deposits.

Columbia Gas Transmission, LLC, WVR310888, MXP Sherwood, White Oak, Mt Olive CS's
Mountaineer Express Pipeline, 5/7/19



Erosion occurring below unmaintained controls and sediment deposits in Roadside ditch that parallels Route 21.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Crews working on stabilization of the area around the sediment basin, even though the site is in Phase 3.



Diversion leading to the sediment basin that has not been stabilized, even though the site is in Phase 3.



Sediment basin outlet pipe.

Diversion downslope of the sediment basin outlet pipe showing the lack of a riprap channel and weir.



Diversion carrying stormwater from the basin outlet to the makeshift treatment structure.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Makeshift treatment structure being utilized to treat stormwater from the sediment basin that is being discharged into an unstable diversion.



Makeshift treatment structure being utilized to treat stormwater from the sediment basin that is being discharged into an unstable diversion. Structure is inundated with sediment and in need of maintenance.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Slope adjacent to the fill pad showing the lack of installed slope interceptors. Area in need of reseeding.



Slope adjacent to the fill pad showing the lack of installed slope interceptors. Area in need of reseeding.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Slope adjacent to the fill pad showing the lack of installed slope interceptors. Area in need of reseeding.



Slope adjacent to the fill pad showing the lack of installed slope interceptors. Fill slope erosion as a result of concentrated flow being directed over an unprotected fill slope. Area in need of reseeding.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Concentrated flow stormwater being directed over an unprotected fill slope and associated fill slope erosion adjacent to the fill pad.



Concentrated flow stormwater being directed over an unprotected fill slope and associated fill slope erosion adjacent to the fill pad.



Diversion in the southern portion of the project that is eroded and in need of maintenance.



Diversion in the southern portion of the project that is eroded and in need of maintenance.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Diversion in need of maintenance adjacent to the fill pad. Perimeter controls improperly installed and in need of maintenance.



Diversion in need of maintenance adjacent to the fill pad. Perimeter controls improperly installed and in need of maintenance.



Diversion in need of maintenance adjacent to the fill pad. Perimeter controls improperly installed and in need of maintenance.



Diversion in need of maintenance adjacent to the fill pad. Perimeter controls improperly installed and in need of maintenance.



Perimeter control along the northern edge of the project in need of maintenance.



Perimeter control along the northern edge of the project in need of maintenance.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Discarded dewatering bag on the project.



Solid waste in the soil stockpile.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Soil stockpiles have been idle for greater than 21 days and have not been temporarily stabilized.

COLUMBIA GAS TRANSMISSION, LLC, WVR310888, Mountaineer Xpress Sherwood, White Oak & Mt Olive, 5/9/2019



Areas of inadequate vegetative cover that are in need of reseeding.

Responsible Party: Columbia Gas Transmission, LLC Receiving Stream: _____

Treatment System Design Maximum Flow: _____ MGD

Treatment System Actual Average Flow: _____ MGD (if known)

Enter FOF# and rate each finding as to Potential and Extent.

1)	Potential for Harm Factor	Factor Range	FOF#											
			2a	2b, 35b	2d, 37b	2e, 3f, 8f, 9e, 11f, 12f, 15e, 27e, 35d	2f, 3g, 4c, 8g, 9f, 11g, 12g, 20e, 25g, 28h, 38f	2g	3a, 38e	3b, 39a	3c, 38c	3e, 34a	4a, 37a	4b, 40a
a)	Amount of Pollutant Released	1 to 3	1	1	1	1	1	1	1	1	1	1	1	1
b)	Toxicity of Pollutant	0 to 3	0	1	1	1	1	1	1	1	1	1	1	1
c)	Sensitivity of the Environment	0 to 3	0	1	1	1	1	1	1	1	1	1	1	1
d)	Length of Time	1 to 3	1	1	1	1	1	1	2	1	1	1	2	2
e)	Actual Exposure and Effects thereon	0 to 3	0	1	1	1	1	1	1	1	1	1	1	1
Average Potential for Harm Factor			0.4	1	1	1	1	1	1.2	1	1	1	1.2	1.2
2)	Extent of Deviation Factor	Factor Range												
	Degree of Non-Compliance	1 to 3	3	3	3	3	3	3	3	3	3	3	3	3

Potential for Harm Factors:

- 1)c - Sensitivity of the Environment Potentially Affected (0 for "dead" stream)
- 1)d - Length of Time of Violation
- 1)e - Actual Human/Environmental Exposure and Resulting Effects thereon

Examples/Guidance:

Note: Rate as 1 for Minor, 2 for Moderate and 3 for Major. Rate as 0 if it does not apply.

Minor = exceedance of permit limit by <=40% for Avg. Monthly or <=100% for Daily Max., exceed numeric WQ standard by <= 100%, or report doesn't contain some minor information.

Moderate = exceedance of permit limit by >= 41% and <= 300% for Avg. Monthly, >= 101% and <= 600% for Daily Max., exceed numeric WQ standard by >= 101% and <= 600% or report doesn't fully address intended subject matter.

Major = exceedance of permit limit by >= 301% for Avg. Monthly, >= 601% for Daily Max., exceed numeric WQ standard by >= 601%, failure to submit a report, failure to obtain a permit, failure to report a spill, etc. Note that a facility in SNC should be rated as major for length of time and degree of non-compliance.

Narrative WQ standard violations - case-by-case.

		Extent of Deviation from Requirement		
		Major	Moderate	Minor
Potential for Harm to Human Health or the Environment	Major	\$8,000 to \$10,000	\$6,000 to \$8,000	\$5,000 to \$6,000
	Moderate	\$4,000 to \$5,000	\$3,000 to \$4,000	\$2,000 to \$3,000
	Minor	\$1,500 to \$2,000	\$1,000 to \$1,500	Up to \$1,000

FOF #	Potential for Harm	Extent of Deviation	Penalty	Multiple Factor	Base Penalty
2a	Minor	Major	\$1,700	1	\$1,700
2b, 35b	Minor	Major	\$2,000	2	\$4,000
2d, 37b	Minor	Major	\$2,000	2	\$4,000
2e, 3f, 8f, 9e, 11f, 12f, 15e, 27e, 35d	Minor	Major	\$2,000	22	\$44,000
2f, 3g, 4c, 8g, 9f, 11g, 12g, 20e, 25g, 28h, 38f	Minor	Major	\$2,000	37	\$74,000
2g	Minor	Major	\$2,000	1	\$2,000
3a, 38e	Moderate	Major	\$4,200	2	\$8,400
3b, 39a	Minor	Major	\$2,000	2	\$4,000
3c, 38c	Minor	Major	\$2,000	2	\$4,000
3e, 34a	Minor	Major	\$2,000	2	\$4,000
4a, 37a	Moderate	Major	\$4,200	2	\$8,400
4b, 40a	Moderate	Major	\$4,200	2	\$8,400
5a, 35c	Minor	Major	\$2,000	2	\$4,000
6a	Moderate	Major	\$4,200	1	\$4,200
6b, 36a	Moderate	Major	\$4,200	2	\$8,400
7a	Minor	Major	\$2,000	1	\$2,000
7b, 8a, 8b, 9a, 9b, 11a, 12a, 18a, 18d, 21a, 22a, 23a, 23c, 25a, 25b, 27a, 28a, 30a, 30e, 31a, 32a, 38a, 39d, 40b	Moderate	Major	\$4,400	18	\$79,200
8c, 9c, 11b, 12b, 20a, 25c, 28d	Moderate	Major	\$4,400	7	\$30,800
8d, 18b, 20c, 22b, 23b, 24b, 25d, 26b, 27b, 28g, 30c, 31b, 32b, 39b, 40c	Moderate	Major	\$4,400	15	\$66,000
10a, 11d, 12e, 15d	Moderate	Major	\$4,400	4	\$17,600
10b, 11e, 13a, 14a, 15c, 16a, 30d	Moderate	Major	\$4,400	7	\$30,800
12d	Minor	Major	\$2,000	1	\$2,000
15a	Moderate	Major	\$4,200	1	\$4,200
17a	Moderate	Major	\$4,200	1	\$4,200
18e	Moderate	Major	\$4,200	1	\$4,200
20b, 21b, 22d, 24a, 26a, 28b	Moderate	Major	\$4,400	6	\$26,400
21c, 22e, 28c	Moderate	Major	\$4,400	3	\$13,200
25e	Minor	Major	\$2,000	1	\$2,000
27d	Minor	Major	\$2,000	1	\$2,000
28e	Moderate	Major	\$4,200	1	\$4,200
29a, 30b, 32c	Moderate	Major	\$4,400	3	\$13,200
30f	Moderate	Major	\$4,400	1	\$4,400
38b	Minor	Major	\$2,000	1	\$2,000
Total Base Penalty					\$491,900

Penalty Adjustment Factors

(pursuant to 47CSR1-6.2)

Penalty Adjustment Factor

6.2.b.1 - Degree of or absence of willfulness and/or negligence - 0% to 30% increase

6.2.b.4 - Previous compliance/noncompliance history - 0% to 100% increase - based upon review of last three (3) years - Warning = maximum of 5% each, N.O.V. = maximum of 10% each, previous Order = maximum of 25% each - Consistent DMR violations for <1 year = 10% maximum, for >1 year but <2 years = 20% maximum, for >2 years but <3 years = 30% maximum, for >3 years = 40 % maximum

6.2.b.6 - Economic benefits derived by the responsible party (increase to be determined)

6.2.b.7 - Public Interest (increase to be determined)

6.2.b.8 - Loss of enjoyment of the environment (increase to be determined)

6.2.b.9 - Staff investigative costs (increase to be determined)

6.2.b.10 - Other factors

Size of Violator: 0 - 50% decrease

NOTE: This factor is not available to discharges that are causing a water quality violation. This factor does not apply to a commercial or industrial facility that employees or is part of a corporation that employees more than 100 individuals.

Avg. Daily WW Discharge Flow (gpd)	% Reduction Factor
< 5,000	50
5,000 to 9,999	40
10,000 to 19,999	30
20,000 to 29,999	20
30,000 to 39,999	10
40,000 to 99,999	5
> 100,000	0

Additional Other factors to be determined for increases or decreases on a case-by-case basis.

Public Notice Costs (cost for newspaper advertisement)

6.2.b.2 - Good Faith - 10% decrease to 10% increase

6.2.b.3 - Cooperation with the Secretary - 0% to 10% decrease

6.2.b.5 - Ability to pay a civil penalty - 0% to 100% decrease

Base Penalty Adjustments

(pursuant to 47CSR1-6.2)

Penalty Adjustment Factor	% Increase	% Decrease	Base Penalty Adjustments
6.2.b.1 - Willfulness and/or negligence -	10		\$49,190
6.2.b.4 - Compliance/noncompliance history -	25		\$122,975
6.2.b.6 - Economic benefits - (flat monetary increase)			\$0
6.2.b.7 - Public Interest - (flat monetary increase)			\$0
6.2.b.8 - Loss of enjoyment - (flat monetary increase)			\$0
6.2.b.9 - Investigative costs - (flat monetary increase)	\$5,936		\$5,936
6.2.b.10 - Other factors (size of violator)			\$0
6.2.b.10 - Additional Other Factors - Increase (flat monetary increase)			\$0
6.2.b.10 - Additional Other Factors - Decrease (flat monetary decrease)			\$0
Public Notice Costs (flat monetary increase)	\$30		\$30
6.2.b.2 - Good Faith - Increase			\$0
6.2.b.2 - Good Faith - Decrease			\$0
6.2.b.3 - Cooperation with the Secretary		10	(\$49,190)
6.2.b.5 - Ability to Pay			\$0
Penalty Adjustments			\$128,941
Penalty =			\$620,841

Estimated Economic Benefit Item	Estimated Benefit (\$)
Monitoring & Reporting	
Installation & Maintenance of Pollution Control Equipment	
O&M expenses and cost of equipment/materials needed for compliance	
Permit Application or Modification	
Competitive Advantage	
Estimated Economic Benefit	\$0
Comments: Economic benefit not warranted.	